

Curriculum Vitae

Prof. Jordi Sort
ICREA Research Professor

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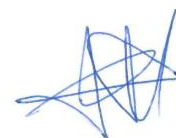
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Prof. Jordi Sort
Bellaterra, 24/03/2025

Synopsis

Prof. Jordi Sort (aged 48) is currently working as an **ICREA Research Professor** at the Universitat Autònoma de Barcelona (UAB), where he leads the **Group of Smart Nanoengineered Materials, Nanomechanics and Nanomagnetism (Gnm³) (2021-SGR-00651)**, now consisting of **around 18 members** including 5 Senior researchers, 5 Postdocs, 6 PhD students, 1 Technician and 1 Project Manager. The research activities of the group focus on the synthesis of **functional materials** (electrodeposited films, lithographed structures, porous materials, bulk metallic glasses, nanocomposites, etc.) for **advanced engineering applications** (nanomechanical, magnetic, magnetoelectric and catalytic properties). The group develops new types of materials, whose microstructure can be precisely controlled at the nanoscale, to boost new functionalities that go **beyond the state of the art**. For further details on our group, see: <https://jsort-icrea.uab.cat/>.

Some of the **main achievements** of Prof. Sort's research outcome can be summarized as follows: (i) development of new approaches to control the magnetic behavior of materials by non-magnetic means (mechanical strain, ion irradiation or voltage); (ii) transfer of domains (i.e., bits of data) from ferromagnetic to antiferromagnetic materials, which is appealing for the development of energy-efficient hybrid memories (e.g., neuromorphic computing or anti-hacking memory architectures); (iii) discovery of "exchange biased vortices" and "magneto-ionic vortices", two new types of magnetization reversal mechanisms with applications in magnetic data storage (including analog computing) and spin-valve magnetic sensors; (iv) study of the nanomechanical properties of unconventional metallic alloys, metallic glasses and regoliths collected from the outer space (Moon, asteroids, comets); (v) development and characterization of new types of biomaterials including implants and magnetically guided nanorobotic platforms for targeted drug delivery; (vi) enhancement of the mechanical, magnetic and catalytic performance of environmentally friendly and sustainable nanoporous oxides and alloys for energy efficiency applications and water remediation.

Prof. Sort got his PhD degree in Materials Science at UAB in 2002. He performed postdoctoral research stays at **SPINTEC** (Grenoble, France) and **Argonne National Laboratory** (USA). He also stayed several months at the **High Magnetic Fields Laboratory** (Grenoble, France), **Los Alamos National Laboratory** (USA), the **Rheinisch-Westfälische Technische Hochschule** (RWTH, Aachen, Germany) and the **Helmholtz-Zentrum Dresden-Rossendorf** (Germany). Overall, he has **over four years of research experience abroad**.

So far, Prof. Sort has **supervised 20 PhD students** (6 more are in progress) and has published more than **390 articles**. These publications have received more than **13100 citations** (**h = 59**) according to the **ISI Web of Science** metrics (**h = 69** and **> 17600 citations** according to **Scholar Google**). The papers have been published in prestigious journals (mostly Q1) e.g.:

9 Phys. Rev. Lett., 1 Nat. Nanotechnol., 3 Nat. Commun., 5 Adv. Mater., 4 J. Am. Chem. Soc., 1 Phys. Rep., 9 Adv. Funct. Mater., 7 Small, 25 Appl. Phys. Lett., 3 J. Mater. Chem. A, 15 Nanoscale, 15 Electrochim. Acta, 19 ACS Appl. Mater. Interf., 5 ACS Nano, 4 APL Materials, etc.

The work of the Team has been presented as **invited/keynote/plenary talks in around 230 international conferences**. Prof. Sort has filled **7 patents** and has managed **38 national/international research** projects (he has participated as researcher in more than 66 research projects). He has also **Agreements with the Private Sector**, with the companies *Gestamp-Linares S.A.*, and the *CETEMMSA-Eurecat* and *IK4-CIDETEC-San*

Sebastian Technological Centers, Singulus Technologies, and also with the Fábrica Nacional de Moneda y Timbre.

During **the last 5 years**, concerning citations, his papers have been cited more **5000 times**, with **more than 1000 citations/year** on average. Prof. Sort has also co-authored **6 book chapters** and **co-edited 5 books** during the period 2015-2025 on fields related to Nanotechnology. In this period, Prof. Sort has also served in the **Editorial Board** of various journals: *Nanomaterials*, *Materials* and *Coatings* from MDPI, *3D Research* from Springer, etc. He was main **Section Editor in Nanomaterials** for 5 years and is now **Associate Editor of APL Materials**. He has served as a member of various **Evaluation Commissions**: European Research Council (**ERC, PE11 CoG-2022 Panel Member**), Agencia Nacional de Evaluación y Prospectiva **ANEP**, Catalan Agency for Management of University and Research Grants **AGAUR**, "Deutsche Forschungsgemeinschaft" **DFG**, **Science Foundation Ireland**, **National Research Foundation – Singapore**, etc. Furthermore, he has also been **Co-organizer or Programme Committee member of several conferences**, such as the 58th MMM, ISMANAM, Intermag 2014, 2015 E-MRS, ICM 2015, ENM Meetings, FIMPART, **MMM 2022** (as **Program Co-Chair**), etc. Regarding our **outreach activities**, some of our results have been featured in national and international media (TV3, RTVE, ABC, Cordis, Science News, etc.). He is also teaching nanomagnetism at the **Official Master on Advanced Nanoscience and Nanotechnology** at UAB.

Prof. Sort has been Coordinator of two European Training Networks ('SELECTA' and 'BeMAGIC'), and Principal Investigator of several Grants from the European Research Council (**ERC**): 'SPIN-PORICS' **Consolidator Grant** (2014), 'MAGIC-SWITCH' **Proof of Concept Grant** (2019) and 'REMINDS' **Advanced Grant** (2022). The 'REMINDS' Project with title "Voltage-Reconfigurable Magnetic Invisibility: A New Concept for Data Security Based on Engineered Magnetoelectric Materials" aims to set the foundations of a new 'security-by-materials-design' approach in which innovative magnetoelectric materials and protocols will be developed to achieve highly energy-efficient and self-protected primitives for diverse data security technologies. The project allows me to merge my knowledge in **magnetoelectricity** with my former studies on **magnetic domain imprinting**.

Prof. Sort received the **PhD UAB Extraordinary Award** in 2004 and his work was also awarded by the Catalan Physical Society (**Jordi Porta i Jué's Prize**, 2000), the Spanish Royal Physical Society (**Young Researcher Award in Experimental Physics**, 2003), the Federation of European Materials Societies (**FEMS Materials Science & Technology Prize**, 2015) and UPC/Naturgy (**Duran Farell Award**, 2020).

Prof. Sort is **Fellow of the Institute of Physics (IOP)** and member of the **Technical and Educational Committess** of the **IEEE Magnetic Society**, as well as **AdCom Member of the MMM**.

Personal data

Family name: **SORT VIÑAS**

Forename: **Jordi**

ID/Passport no: 45480838V

Date of birth: 30/03/76

Gender: Male

Nationality: Spanish

Present Professional Activity

Institution: ICREA Research Professor at Universitat Autònoma de Barcelona

Faculty, School or Institute: Sciences

Department: Physics

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E-mail: jordi.sort@uab.es

Webpage: <http://jsort-icrea.uab.cat/>

Field of study (UNESCO codes): 331208, 220208

Professional Status: Research Professor

Start date: 01/10/05

Administrative status

☒ Permanent Staff

☐ Hired on contracts

☐ Acting

☐ Fellowship holder

☐ Others (specify):

Full-time ☒

Part-time ☐

Research Area (Keywords)

Nanostructures, nanoparticles, thin films, bulk materials, metastable phases, magnetic aerogels, metallic glasses, nanocomposites, magnetic sensors, magnetic multilayers, exchange bias, soft ferromagnets, hard ferromagnets, mechanical alloying, mechanical milling, sol-gel process, suction casting, sputtering, molecular beam epitaxy, electron beam lithography, nanosphere lithography, mechanical properties, nanoindentation, microhardness, tensile tests, acoustic measurements (pulse-echo technique), structural characterization, microstructures, X-ray and neutron diffraction, thermal characterization, differential scanning calorimetry, magnetometry (VSM and SQUID), nuclear magnetic resonance, magneto-optic Kerr effect, electron microscopy (SEM and TEM), atomic/magnetic force microscopy (AFM/MFM), magnetic thermogravimetry, magnetic dichroism, magneto-ionics.

Academic Background

Bachelor	Centre	Date
Bsc in Physics Science	Universitat Autònoma de Barcelona	1998
Master in Materials Science	Universitat Autònoma de Barcelona	2000

Ph.D.	Centre	Date
PhD Degree in Materials Science	Universitat Autònoma de Barcelona	03/10/2002

Past Scientific Experience

Position	R&D Centre	Institution	Start date	End date
Associate Professor	Physics Department UAB		September 1998	December 1998
PhD Fellowship F.P.I.	Physics Department UAB		January 1999	October 2002
Postdoc Researcher	SPINTEC	CEA-Grenoble	October 2002	December 2004
Associate Professor	Physics Department UAB		January 2005	December 2009
ICREA Junior Researcher	Physics Department UAB	ICREA	October 2005	September 2010

Languages (G = Good, F = Fluent, P = Perfectly)

Language	Speaking	Reading	Writing
Catalan	P	P	P
Spanish	P	P	P
English	P	P	P
French	G	F	G

Participation in Research Projects

1. PROJECT TITLE: Síntesis por aleado mecánico y caracterización estructural, magnética y térmica de materiales nanoestructurados de interés industrial (MAT98-0730)

FINANCIAL ENTITY: DGES (11.316.000 pta)

LENGTH

FROM: 1998

TO: 2000

PRINCIPAL INVESTIGATOR: Prof. María Dolors Baró Maríné

2. PROJECT TITLE: Materiales nanoestructurados con aplicaciones magnéticas

FINANCIAL ENTITY: MEC (1.000.000 pta)

LENGTH

FROM: 1998

TO: 1999

PRINCIPAL INVESTIGATOR: Prof. María Dolors Baró Maríné

3. PROJECT TITLE: Mejora del Producto de Energía (BH)_{Max} de Ferritas de Ba, Sr mediante procesos de canje magnético

FINANCIAL ENTITY: PETRI-CICYT (16.273.000 pta)

LENGTH

FROM: 1999

TO: 2000

PRINCIPAL INVESTIGATOR: Prof. Juan Santiago Muñoz

4. PROJECT TITLE: Materiales nanoestructurados con aplicaciones magnéticas

FINANCIAL ENTITY: MEC (1.000.000 pta)

LENGTH

FROM: 1999

TO: 2000

PRINCIPAL INVESTIGATOR: Prof. María Dolors Baró Maríné

5. PROJECT TITLE: 1999SGR 00340

FINANCIAL ENTITY: DGR Generalitat Catalunya (2.200.000 pta)

LENGTH

FROM: 1998

TO: 2000

PRINCIPAL INVESTIGATOR: Prof. Fernando López Aguilar

6. PROJECT TITLE: Materiales nanoestructurados con aplicaciones magnéticas

FINANCIAL ENTITY: MEC (1.000.000 pta)

LENGTH

FROM: 2000

TO: 2001

PRINCIPAL INVESTIGATOR: Prof. María Dolors Baró Maríné

7. PROJECT TITLE: Materiales nanoestructurados; caracterización, propiedades y aplicaciones (MAT2001-2555)

FINANCIAL ENTITY: MCYT (16.870.000 pta)

LENGTH

FROM: 2001

TO: 2004

PRINCIPAL INVESTIGATOR: Prof. María Dolors Baró Maríné

8. PROJECT TITLE: 2001SGR 00189

FINANCIAL ENTITY: DGR Generalitat de Catalunya (3.000.000 pta)

LENGTH

FROM: 2001

TO: 2004

PRINCIPAL INVESTIGATOR: Prof. María Dolors Baró Maríné

9. PROJECT TITLE: Exchange bias systems for advanced magnetic devices (HPRN-CT-2002-00296)

FINANCIAL ENTITY: EU (200.000 €)

LENGTH

FROM: 2002

TO: 2005

PRINCIPAL INVESTIGATOR: Dr. Bernard Dieny

10. PROJECT TITLE: Materiales nanoestructurados con posibles aplicaciones funcionales y/o estructurales (MAT2004-01679)

FINANCIAL ENTITY: MEC (116170 €)

LENGTH

FROM: 2004

TO: 2006

PRINCIPAL INVESTIGATOR: Prof. María Dolors Baró Maríné

11. PROJECT TITLE: 2005SGR 00401

FINANCIAL ENTITY: DGR Generalitat de Catalunya (37600 €)

LENGTH

FROM: 2005

TO: 2008

PRINCIPAL INVESTIGATOR: Prof. María Dolores Baró Maríné

COORDINATOR (junior): Dr. Jordi Sort

12. PROJECT TITLE: Aplicacions del ferromagnetisme induït per deformació mecànica local: (i) detecció no destructiva de fallida mecànica i (ii) fabricació de nanoestructures magnètiques (PNL2006-019)

FINANCIAL ENTITY: Preparació de noves línies de recerca - UAB (6000 €)

LENGTH

FROM: 2006

TO: 2007

PRINCIPAL INVESTIGATOR: Dr. Jordi Sort

13. PROJECT TITLE: Producció de material docent per a ciència de materials mitjançant microscòpia electrònica de rastreig i làser (2006MQD 00036)

FINANCIAL ENTITY: Proyectos para la mejora de la calidad docente de las Universidades-DURSI

ENTIDADES PARTICIPANTES: UAB (6000 €)

LENGTH

FROM: 2006

TO: 2007

PRINCIPAL INVESTIGATOR: Prof. María Dolores Baró Maríné

14. PROJECT TITLE: NANOBIOMED (CSD00C-06-04615)

FINANCIAL ENTITY: Ministerio de Educación y Ciencia- Programa Consolider-Ingenio 2010 (4500000 €)

OTHER PARTICIPANTING INSTITUTIONS: Instituto Universitario de Investigación de Nanociencia de Aragón (INA), Universidad Autónoma de Barcelona, Universidades de Santiago de Compostela y Vigo, Instituto Catalán de Nanotecnología (ICN), el Instituto de Ciencia de los Materiales de Barcelona, Instituto de Nanociencia y Nanotecnología de la Universidad de Barcelona y el Parque Tecnológico de Barcelona

LENGTH

FROM: 2006

TO: 2011

PRINCIPAL INVESTIGATOR: Prof. Ricardo Ibarra

15. PROJECT TITLE: HF2006-0197 (Tailoring Magnetization Reversal in Patterned and Exchange Coupled Magnetic Nanostructures)

FINANCIAL ENTITY: MEC - (11000 €)- Acción Integrada (11000 Euro)

OTHER PARTICIPANTING INSTITUTIONS: Institut Català de Nanoeecnologia, SPINTEC (CEA-Grenoble)

LENGTH FROM: 2007 TO: 2008
PRINCIPAL INVESTIGATOR: Dr. Jordi Sort

16. PROJECT TITLE: PBH2006-0007

FINANCIAL ENTITY: MEC – “Becas y ayudas para la cooperación interuniversitaria con Brasil” (8175 Euro)

OTHER PARTICIPANTING INSTITUTIONS: Universidad Federal de Sao Carlos

LENGTH FROM: 2007 TO: 2008

PRINCIPAL INVESTIGATOR: Prof. M. D. Baró

17. PROJECT TITLE: Complex Solid State Reactions for Energy Efficient Hydrogen Storage - COSY- (EU MRTN-CT-2006-035366)

FINANCIAL ENTITY: European Union- Marie Curie Action: Research Training Network Sixth Work Programme (2467170 €)

OTHER PARTICIPANTING INSTITUTIONS: UAB, GKSS Geesthacht, University of Torino, ESRF Grenoble, IFW Dresden, University of Twente, CSIC, INP Grenoble, University of Oxford, University of Fribourg, University of Picardie, FZK Research Center Karlsruhe

LENGTH FROM: 2006 TO: 2010

PRINCIPAL INVESTIGATOR: Prof. M. D. Baró

18. PROJECT TITLE: Advanced characterization and innovative applications based on nanomechanical testing (MAT2007-61629)

FINANCIAL ENTITY: MEC (151205 €)

LENGTH FROM: 2007 TO: 2010

PRINCIPAL INVESTIGATOR: Dr. Jordi Sort

19. PROJECT TITLE: Nuevos medios de almacenamiento magnético de ultra-alta densidad basados en el auto-ensamblaje de nanopartículas multi-nivel (MAT2008-01939-E)

FINANCIAL ENTITY: MICINN. Explora-Ingenio 2010 Program (55000 €)

LENGTH FROM: 2008 TO: 2009

PRINCIPAL INVESTIGATOR: Dr. Jordi Sort

20. PROJECT TITLE: Compra d'accessoris per a un microscopio de forces atòmiques

FINANCIAL ENTITY: PEIR- AGAUR – Generalitat de Catalunya (44775 €)

LENGTH FROM: 2008 TO: 2008

PRINCIPAL INVESTIGATOR: Prof. Maria Dolors Baró

21. PROJECT TITLE: Litografía magnética de alta densidad y con anisotropía perpendicular de superficies planas no magnéticas mediante irradiación con haz de iones

FINANCIAL ENTITY: GICSERV Program (MEC). Proyecto de Acceso a la Sala Blanca Integrada de Micro y Nanoelectrónica del Centro Nacional de Microelectrónica.

LENGTH FROM: 2008 TO: 2009

PRINCIPAL INVESTIGATOR: Dr. Jordi Sort

22. PROJECT TITLE: International workshop on the structural and mechanical properties of metallic glasses

FINANCIAL ENTITY: MICINN. Complementary Action (9000 €)

LENGTH FROM: 2008 TO: 2009

PRINCIPAL INVESTIGATOR: Dr. Jordi Sort

23. PROJECT TITLE: Improving the gender diversity management in Materials Research Institutions (DIVERSITY)

FINANCIAL ENTITY: (European Union, 7th Work Programme), 315083 €

LENGTH FROM: 2009

TO: 2012

PRINCIPAL INVESTIGATOR: Prof. M. D. Baró

24. PROJECT TITLE: International Workshop on the structural and mechanical properties of metallic glasses (MAT2008- 03293-E)

FINANCIAL ENTITY: Ministerio de Ciencia e Innovación (Acción Complementaria) 9000 Euro

LENGTH FROM: 2009

TO: 2009

PRINCIPAL INVESTIGATOR: Prof. Jordi Sort

25. PROJECT TITLE: ICREA Starting Fund UAB

FINANCIAL ENTITY: Universitat Autònoma de Barcelona, 82.600 €

LENGTH FROM: 2010

TO: 2011

PRINCIPAL INVESTIGATOR: Prof. Jordi Sort

26. PROJECT TITLE: Grup de recerca consolidat (2009 SGR-1292)

FINANCIAL ENTITY: DGR (Generalitat de Catalunya) 48.800 €

LENGTH FROM: 2009

TO: 2013

PRINCIPAL INVESTIGATOR: Prof. M. D. Baró

27. PROJECT TITLE: Academic-Industrial Initial Training Network on Innovative Biocompatible Titanium-base Structures for Orthopaedics (FP7-PEOPLE-2010-ITN-264635)

FINANCIAL ENTITY: EU- FP7 3.571.711 €; Budget assigned to our group: 227.479,6 €

LENGTH FROM: 2011

TO: 2014

PRINCIPAL INVESTIGATOR (Spanish Team): Prof. M. D. Baró

28. PROJECT TITLE: Manipulación superficial de materiales nanoestructurados para aplicaciones innovadoras NANOSURF (MAT2011-27380-C02-01)

FINANCIAL ENTITY: Ministerio de Ciencia e Innovación 117.190€ (80.000 € to our group)

LENGTH: FROM: 2011

TO: 2014

PRINCIPAL INVESTIGATOR: Prof. Jordi Sort

29. PROJECT TITLE: Fabricació mitjançant mètodes electroquímics de recobriments de coure porós amb interconnectivitat tridimensional (Cu-FOAM)

FINANCIAL ENTITY: La Farga 30.000€

LENGTH: FROM: 2011

TO: 2012

PRINCIPAL INVESTIGATOR: Prof. Jordi Sort

30. PROJECT TITLE: Litografía magnética de alta densidad inducida mediante irradiación con iones de aleaciones no magnéticas a través de máscaras de copolímero con diámetro de poro inferior a 50 nm

FINANCIAL ENTITY: GICSERV Program (MEC). Proyecto de Acceso a la Sala Blanca Integrada de Micro y Nanoelectrónica del Centro Nacional de Microelectrónica. 2800€

LENGTH: FROM: 2011

TO: 2012

PRINCIPAL INVESTIGATOR: Dr. Jordi Sort

31. PROJECT TITLE: “Magnetic Nano Actuators for Quantitative Analysis” (MANAQA)
FINANCIAL ENTITY: European Union (FET-Open, FP7-ICT-2011-C-296679). Total budget: 2.775.302 €; Budget assigned to our group: 449.632 €

LENGTH: FROM: 2012 TO: 2015

PRINCIPAL INVESTIGATOR (Spanish Team): Dr. Jordi Sort

32. PROJECT TITLE: Thermomechanical response of Cu-based shape memory alloys suitable for micro-electro-mechanical systems (MEMS) applications: interplay between grain size and sample size effects (SMAMEMS)

FINANCIAL ENTITY: European Union (FP7-PEOPLE-2012-IOF). Total budget: 220.973 €.

LENGTH: FROM: 2013 TO: 2016

PRINCIPAL INVESTIGATOR (Spanish Team): Dr. Jordi Sort

33. PROJECT TITLE: Electrodeposition of novel nanostructured and porous materials for advanced applications: synthesis, structural characterization and physical/chemical performance (CSC 201306250050)

FINANCIAL ENTITY: Chinese Research Council. Total budget: 30.000 €.

LENGTH: FROM: 2013 TO: 2016

PRINCIPAL INVESTIGATOR (Spanish Team): Dr. Jordi Sort

34. PROJECT TITLE: Synthesis, structural characterization and mechanical properties of nanocrystalline alloys and bulk amorphous alloys for novel engineering applications

FINANCIAL ENTITY: Chinese Research Council. Total budget: 30.000 €.

LENGTH: FROM: 2014 TO: 2017

PRINCIPAL INVESTIGATOR (Spanish Team): Dr. Jordi Sort

35. PROJECT TITLE: Synthesis and assessment of the mechanical, magnetic and photoluminescence properties of nanoporous oxide materials for advanced engineering applications

FINANCIAL ENTITY: Chinese Research Council. Total budget: 30.000 €.

LENGTH: FROM: 2013 TO: 2016

PRINCIPAL INVESTIGATOR (Spanish Team): Dr. Jordi Sort

36. PROJECT TITLE: Induction of ferromagnetism by Co implantation in mesoporous MgNb₂O₆ high-k dielectrics: towards ferromagnetic mesoporous insulating ceramics

FINANCIAL ENTITY: European Union (Spirit). Total budget: 3.000 €.

LENGTH: FROM: 2013 TO: 2013

PRINCIPAL INVESTIGATOR (Spanish Team): Dr. Jordi Sort

37. PROJECT TITLE: Mejora de la funcionalidad de vidrios metálicos mediante irradiación superficial con haces de iones (ICTS-NGG-263)

FINANCIAL ENTITY: GICSERV Program (MEC). Proyecto de Acceso a la Sala Blanca Integrada de Micro y Nanoelectrónica del Centro Nacional de Microelectrónica. 2.800 €

LENGTH: FROM: 2012 TO: 2013

PRINCIPAL INVESTIGATOR: Dr. Jordi Sort

38. PROJECT TITLE: Development of Sustainable Interrelations between Education, Research and Innovation at WBC Universities in Nanotechnologies and Advanced Materials where Innovation Means Business

FINANCIAL ENTITY: European Union (TEMPUS). Total budget: 1.349.043,2 €; Budget assigned to our group: 67.203 €

LENGTH: FROM: 2013 TO: 2016

PRINCIPAL INVESTIGATOR (Spanish Team): Dr. Eva Pellicer

39. PROJECT TITLE: Grup de Recerca Consolidat Gnm³ (2014-SRG-1015)

FINANCIAL ENTITY: Catalan Administration (SGR). Total budget: 30.000

LENGTH: FROM: 2014 TO: 2016

PRINCIPAL INVESTIGATOR (Spanish Team): Prof. Jordi Sort

40. PROJECT TITLE: Síntesi de nanopartícules d'òxid de zinc dopades amb òxids de metalls de transició per aplicació en dispositius electroluminiscents híbrids (HyLEDs).

FINANCIAL ENTITY: Private Contract with CETEMMSA (Technological Center).

Total budget: 10.000 €

LENGTH: FROM: 2014 TO: 2015

PRINCIPAL INVESTIGATOR (Spanish Team): Prof. Maria Dolors Baró

41. PROJECT TITLE: Electrochemical processing methodologies and corrosion protection for device and systems miniaturization (e-MINDS)

FINANCIAL ENTITY: European Commission (Cost Action). Total budget: 520.000 €; Budget assigned to our group: Annual Expenses (expected ~ 50.000 €).

LENGTH: FROM: 2015 TO: 2018

PRINCIPAL INVESTIGATOR: Dr. Salvador Pané (Coordinator of the Network)

42. PROJECT TITLE: Smart ELECTrodeposited Alloys for environmentally sustainable applications: from advanced protective coatings to micro/nano-robotic platforms (SELECTA)

FINANCIAL ENTITY: European Commission (Marie Skłodowska- Curie Innovative Training Networks (ITN-ETN). Total budget: 3.805.423,7 €; Budget assigned to our group: 703.105 €

LENGTH: FROM: 2015 TO: 2018

PRINCIPAL INVESTIGATOR: Prof. Jordi Sort (Coordinator of the Network)

See webpage: <http://selecta-etn.eu/>

43. PROJECT TITLE: Merging Nanoporous Materials for Energy-Efficient Spintronics (SPINPORICS)

FINANCIAL ENTITY: European Research Council (Consolidator Grant 2014).

Total budget: 1.794.380 €

LENGTH: FROM: 2015 TO: 2020

PRINCIPAL INVESTIGATOR (Spanish Team): Prof. Jordi Sort

44. PROJECT TITLE: Nuevas aleaciones nanoporosas para aplicaciones biomédicas avanzadas y descontaminación de aguas (ENV-BIO-PORAL)

FINANCIAL ENTITY: MINECO (Proyecto Retos Investigación)

Total budget: 471.150 € (296.451 € to our group)

LENGTH: FROM: 2015 TO: 2018

PRINCIPAL INVESTIGATOR: Prof. Jordi Sort

45. PROJECT TITLE: Nanoporous materials for energy-efficient spin-based electronics (P-SPHERE)

FINANCIAL ENTITY: European Union (COFUND-2014, Marie Skłodowska-Curie grant agreement No 665919). Budget: 146.700 € (to our group)

LENGTH: FROM: 2016 TO: 2019

PRINCIPAL INVESTIGATOR: Universitat Autònoma de Barcelona (local supervisor: Dr. Eva Pellicer)

46. PROJECT TITLE: Synthesis and characterization of Fe-based porous materials

FINANCIAL ENTITY: MINECO (Juan de la Cierva Call). Budget: 58.000 €

LENGTH: FROM: 2016 TO: 2019

PRINCIPAL INVESTIGATOR: Dr. Jordina Fornell

47. PROJECT TITLE: Advanced integrative solutions to Corrosion problems beyond micro-scale: towards long-term durability of miniaturized Biomedical, Electronic and Energy systems (mCBEEs)

FINANCIAL ENTITY: European Commission (Marie Skłodowska- Curie Innovative Training Networks (ITN-ETN). Total budget: 3.726.379,44 €; Budget assigned to our group: 247.873 €

LENGTH: FROM: 2017 TO: 2021

PRINCIPAL INVESTIGATOR: Dr. Maria Lekka

48. PROJECT TITLE: Grup de Recerca Consolidat Gnm³ (2017-SRG-292)

FINANCIAL ENTITY: Catalan Administration (SGR). Total budget: 36.000 €

LENGTH: FROM: 2017 TO: 2021

PRINCIPAL INVESTIGATOR (Spanish Team): Prof. Jordi Sort

49. PROJECT TITLE: Control de les propietats magnètiques de materials amb voltatge

FINANCIAL ENTITY: UAB (PIF Grant). Total budget: 46.000 €

LENGTH: FROM: 2017 TO: 2020

PRINCIPAL INVESTIGATOR (Spanish Team): Prof. Jordi Sort (PhD recipient: Veronica Sireus)

50. PROJECT TITLE: Optimización del diseño de materiales de base metal para la producción de anillos estructurales

FINANCIAL ENTITY: private contract with ACRONIMUS (3.630 €)

LENGTH: FROM: 2018 TO: 2019

PRINCIPAL INVESTIGATOR: Prof. Jordi Sort

51. PROJECT TITLE: Optimización de materiales de base metal para la producción de anillos estructurales

FINANCIAL ENTITY: private contract with Gestamp Linares S.A. (14.500 €)

LENGTH: FROM: 2018 TO: 2019

PRINCIPAL INVESTIGATOR: Prof. Jordi Sort

52. PROJECT TITLE: Electrically-actuated porous materials for energy applications and sustainable tissue engineering technologies (ELECTRO-PORICS) - MAT2017-86357-C3

FINANCIAL ENTITY: MINECO (344.850 €); Budget to our Group: 211.750 €.

LENGTH: FROM: 2018 TO: 2020

PRINCIPAL INVESTIGATOR: Prof. Jordi Sort

53. PROJECT TITLE: Magnetoelectrics beyond 2020: a training programme on energy-efficient magnetoelectric nanomaterials for advanced information and healthcare technologies (BeMAGIC)

FINANCIAL ENTITY: European Commission (3.954.491 €); Budget to our Group: 671.809 €.

LENGTH: FROM: 2019 TO: 2023

PRINCIPAL INVESTIGATOR: Prof. Jordi Sort

54. PROJECT TITLE: A robust and voltage-programmable magnetic keycard system: A new concept for ultra-secure and energy-efficient smart locks (MAGIC-LOCK)

FINANCIAL ENTITY: AGAUR (Llabor Call) (20.000 €).

LENGTH: FROM: 2019 TO: 2020

PRINCIPAL INVESTIGATOR: Prof. Jordi Sort

55. PROJECT TITLE: Energy efficient magnetoelectric materials by ionic approaches: fundamentals, challenges and perspectives

FINANCIAL ENTITY: Wilhelm and Else Heraeus Foundation (WE)-Heraeus seminars (scientific conference) (10.000 €).

LENGTH: FROM: 2019 TO: 2020

PRINCIPAL INVESTIGATOR: Prof. Jordi Sort

56. PROJECT TITLE: Magnetic switch controlled with voltage (MAGIC-SWITCH)

FINANCIAL ENTITY: European Research Council, Proof of Concept Grant (150.000 €).

LENGTH: FROM: 2019 TO: 2020

PRINCIPAL INVESTIGATOR: Prof. Jordi Sort

57. PROJECT TITLE: Strain-graded MAGnetoelectric composites based on NanoporoUS materials for information and biomedical technologies (MAGNUS)

FINANCIAL ENTITY: European Commission (MSCA Individual Fellowship, postdoc) (172.932 €).

LENGTH: FROM: 2020 TO: 2022

PRINCIPAL INVESTIGATOR: Prof. Jordi Sort (postdoctoral researcher: Aliona Nicolenco)

58. PROJECT TITLE: Electrical field control of the exchange bias effect with perpendicular magnetization using the piezoelectric substrate for spintronic devices

FINANCIAL ENTITY: TUBITAK grant (postdoc) (25.000 €).

LENGTH: FROM: 2020 TO: 2021

PRINCIPAL INVESTIGATOR: Prof. Jordi Sort (postdoctoral researcher: Erdem Demirci)

59. PROJECT TITLE: BIOfilm-REsistant Materials for hard tissue Implant Applications', 'BIOREMIA'

FINANCIAL ENTITY: European Commmission (European Training Network: 4.029.973 €; Budget to our Group: 501.809 €.

LENGTH: FROM: 2020 TO: 2023

PRINCIPAL INVESTIGATOR: Prof. Mariana Calin (PI at UAB: Prof. Jordi Sort)

60. PROJECT TITLE: Advanced magnetoelectric procedures for energy efficient and sustainable technologies (MAGYTECH)

FINANCIAL ENTITY: Agencia Estatal de Investigación (Proyecto Retos para la Sociedad) (417.450€); Budget to our Group: 344.850 €

LENGTH: FROM: 2021 TO: 2025

PRINCIPAL INVESTIGATOR: Prof. Jordi Sort

61. PROJECT TITLE: Energy-efficient and robust magneto-ionic memory device (NEURO-MAG)

FINANCIAL ENTITY: Agencia Estatal de Investigación (Prueba de Concepto) 149.500 €; Budget to our Group: 115.000 €

LENGTH: FROM: 2021 TO: 2023

PRINCIPAL INVESTIGATOR: Prof. Jordi Sort

62. PROJECT TITLE: Ni-based ferromagnetic coatings with enhanced efficiency to replace Pt in energy and digital storage applications (Nickeffect)

FINANCIAL ENTITY: European Commission (HORIZON-CL4-2021-RESILIENCE-01-12) (4.844.680 €); Budget to our Group: 419.092 €

LENGTH: FROM: 2022 TO: 2026

PRINCIPAL INVESTIGATOR: Dr. Maria Lekka

63. PROJECT TITLE: Voltage-Reconfigurable Magnetic Invisibility: A New Concept for Data Security Based on Engineered Magnetoelectric Materials (REMINDS)

FINANCIAL ENTITY: European Research Council, Advanced Grant (2.499.940 €)

LENGTH: FROM: 2022 TO: 2027

PRINCIPAL INVESTIGATOR: Prof. Jordi Sort

64. PROJECT TITLE: Efectos magnetoeléctricos y magneto-iónicos estimulados por luz

FINANCIAL ENTITY: Agencia Estatal de Investigación (Proyectos Estratégicos Orientados a la Transición Ecológica y a la Transición Digital. Convocatoria 2021). (359.950 €); Budget to our Group: 164.450 €.

LENGTH: FROM: 2022 TO: 2024

PRINCIPAL INVESTIGATOR: Dr. Ignasi Fina (PI at UAB: Prof. Jordi Sort)

65. PROJECT TITLE: Ion programmable magnetoelectricity for brain-inspired functionalities (iBRAIN)

FINANCIAL ENTITY: Agencia Estatal de Investigación (Proyectos Agencia Estatal de Investigación, Consolidación (CNS2022-135230)). (191.002 €).

LENGTH: FROM: 2023 TO: 2025

PRINCIPAL INVESTIGATOR: Dr. Enric Menéndez

66. PROJECT TITLE: Grup de Recerca Consolidat

FINANCIAL ENTITY: AGAUR (2021-SGR-00651). (60.000 €).

LENGTH: FROM: 2022 TO: 2025

PRINCIPAL INVESTIGATOR: Prof. Jordi Sort

67. PROJECT TITLE: Nanoscaled hybrid magnetic materials: new key actors unleashing solar overall water splitting

FINANCIAL ENTITY: AGAUR (2023CLIMA00022)). (251.640 €).

LENGTH: FROM: 2024 TO: 2026
PRINCIPAL INVESTIGATOR: Dr. Marta Estrader

68. PROJECT TITLE: DOctoral training programme in Functional Advanced Materials: Towards a Better Future (DOCFAM+)

FINANCIAL ENTITY: European Commission (CoFUND). Budget to our group: Personnel grant.

LENGTH: FROM: 2025 TO: 2029

PRINCIPAL INVESTIGATOR: Dr. Aitor Lopeandía (local PI)

69. PROJECT TITLE: A Training Programme on 5R's implementation in the design, manufacturing and application of micro and nanorobotic platforms (GREENS)

FINANCIAL ENTITY: European Commission (Doctoral Network) (4.031.589 €). Budget to our group: 251.971 €.

LENGTH: FROM: 2025 TO: 2029

PRINCIPAL INVESTIGATOR: Dr. Maria Guix

70. PROJECT TITLE: Advanced Multi-purpose X-ray Diffraction System

FINANCIAL ENTITY: Agencia Estatal de Investigación (SUBPROGRAMA ESTATAL DE INFRAESTRUCTURAS Y EQUIPAMIENTO CIENTÍFICO-TÉCNICO) (366.049 €).

LENGTH: FROM: 2025 TO: 2026

PRINCIPAL INVESTIGATOR: Prof. Jordi Sort

71. PROJECT TITLE: Magneto-ionic data-security device integrated on flexible substrates (SECURE-FLEXIMAG)

FINANCIAL ENTITY: European Research Council (Proof of Concept Grant) (150.000 €).

LENGTH: FROM: 2025 TO: 2026

PRINCIPAL INVESTIGATOR: Prof. Jordi Sort

Patents and Utility Models

1. INVENTORS: J. Nogués, J. Sort, X. Amils, S. Suriñach, J. S. Muñoz, M. D. Baró
TITLE: Procedimiento para aumentar la coercitividad de materiales ferromagnéticos y ferrimagnéticos
APPLICATION FORM No: P-P9900869IM
PRIORITY COUNTRY: Spain **PRIORITY DATE:** 27th April 1999
HOLDER ENTITY: Universitat Autònoma de Barcelona

2. INVENTORS: J. Sort, J. Nogués, A. Concustell, E. Menéndez, S. Suriñach, M.D. Baró
TITLE: Procedimiento para la fabricación de un artículo con zonas ferromagnéticas y zonas no ferromagnéticas
APPLICATION FORM: P200600426
PRIORITY COUNTRY: Spain
PRIORITY DATE: 17th February 2006
HOLDER ENTITY: Universitat Autònoma de Barcelona /ICREA

3. INVENTORS: G. Mulas, S. Garroni, E. Tolu, M. D. Baró, E. Pellicer, J. Sort
TITLE: Mesoporous, highly ordered magnesium and niobium based ternary oxide compound, process for its preparation thereof and uses.
APPLICATION FORM: PCT/IT2013/000179
PRIORITY COUNTRY: European Union
PRIORITY DATE: 24th July 2013
HOLDER ENTITY: Università degli Studi di Sassari/Universitat Autònoma de Barcelona /ICREA

4. INVENTORS: I. Chavez, J. Zhang, M. D. Baró, E. Pellicer, J. Sort
TITLE: Magnetic-electrocatalytic, pseudo-ordered mesoporous alloy films, a method for making them and their use
APPLICATION FORM: EP17170317.6; 1707453.5 (UK); 201700590 (ES)
PRIORITY COUNTRY: Spain, UK, European Union
PRIORITY DATE: 10th May 2017
HOLDER ENTITY: Universitat Autònoma de Barcelona /ICREA

5. INVENTORS: J. Sort, E. Pellicer, I. Chávez, A. Quintana, J. Nogués
TITLE: A method for tuning the magnetic coercivity of a nanoporous film, a device and uses thereof
APPLICATION FORM: EP16167561.6; PCT/EP2018/061900
PRIORITY COUNTRY: Spain
PRIORITY DATE: 28th April 2016
HOLDER ENTITY: Universitat Autònoma de Barcelona /ICREA

6. INVENTORS: J. Sort, E. Menéndez, V. Sireus, A. Nicolenco, M. Cialone, J. de Rojas, G. Rius
TITLE: A magnetoelectric device and uses of the magnetoelectric device
APPLICATION FORM: EP20382628; PCT/EP2021/060062
PRIORITY COUNTRY: Spain
PRIORITY DATE: 14th July 2020
HOLDER ENTITY: Universitat Autònoma de Barcelona /ICREA/CSIC

7. INVENTORS: A. Nicolenco, A. Salicio Paz, M. Lekka, E. García-Lecina, F. Alcaide, E. Pellicer, J. Sort, K. Eiler, R. de Paz

TITLE: Ni-Based porous electrode for water electrolysis and the preparation method thereof

APPLICATION FORM: EP23383374.8

PRIORITY COUNTRY: Spain

PRIORITY DATE: 22nd December 2023

HOLDER ENTITY: Universitat Autònoma de Barcelona /ICREA/CIDETEC

Besides these patents, our group has “**non-disclosure agreements**” with the Fábrica Nacional de Moneda y Timbre (since 2018) and Zubi Labs Impact S.L. (since 2024).

Publications

ISI Web of Science Indicators

Key: B = full book, CB= chapter of book, A = article, R = review, E = editor

(*) Corresponding author (when applicable)

1- AUTHORS (in order of authorship): J. Sort, J. Nogués, X. Amils, S. Suriñach, J.S. Muñoz, M.D. Baró

TITLE: Room-temperature coercivity enhancement in mechanically alloyed antiferromagnetic-ferromagnetic powders

JOURNAL/BOOK TITLE: Applied Physics Letters, 75 (1999) 3177 **KEY:** A

DATE OF PUBLICATION: 1999

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐

IMPACT FACTOR : 4.184, classified as nº 3/67 in the category Physics: Applied.

2- AUTHORS (in order of authorship): J. Sort, J. Nogués, X. Amils, S. Suriñach, J.S. Muñoz, M.D. Baró

TITLE: Correlation between the microstructure and enhanced room temperature coercivity in ball milled ferromagnetic-antiferromagnetic composites

JOURNAL/BOOK TITLE: Materials Science Forum, 343 (2000) 812 **KEY:** A

DATE OF PUBLICATION: 2000

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☐ NO X

IMPACT FACTOR : 0.597 classified as nº 78/166 in the category Materials Science: Multidisciplinary

3- AUTHORS (in order of authorship): J. Sort, J. Nogués, X. Amils, S. Suriñach, J.S. Muñoz, M.D. Baró

TITLE: Room-temperature coercivity enhancement in mechanically milled ferromagnetic-antiferromagnetic composites

JOURNAL/BOOK TITLE: Mat. Res. Soc. Symp. Proc., 581 (2000) 641. **KEY:** CB

DATE OF PUBLICATION: 2000

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☐ NO X **IMPACT FACTOR** : --

4- AUTHORS (in order of authorship): J. Sort, J. Nogués, X. Amils, S. Suriñach, J.S. Muñoz, M.D. Baró

TITLE: Room temperature magnetic hardening in mechanically milled ferromagnetic-antiferromagnetic composites

JOURNAL/BOOK TITLE: Journal of Magnetism and Magnetic Materials 219 (2000) 53.

KEY: A

DATE OF PUBLICATION: 2000

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐

IMPACT FACTOR: 0.996 classified as nº 39/166 in the category Materials Science: Multidisciplinary

5- AUTHORS (in order of authorship): J. Sort, J. Nogués, X. Amils, S. Suriñach, J.S. Muñoz, M.D. Baró

TITLE: Enduriment magnetic induït per l'acoblament de material ferromagnetic i antiferromagnètic

JOURNAL/BOOK TITLE: Revista de Física, 2 (2000) 16 **KEY:** A

DATE OF PUBLICATION: 2000

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☐ NO X **IMPACT FACTOR :**

6- AUTHORS (in order of authorship): Ll. Casas, A. Roig, E. Rodríguez, E. Molins, J. Tejada, J. Sort

TITLE: Silica Aerogel-Iron Oxide Nanocomposites: Structural and Magnetic Properties

JOURNAL/BOOK TITLE: Journal of Non-Crystalline Solids, 285 (2001) 37

KEY: A

DATE OF PUBLICATION: 2001

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR :** 1.363

classified as nº 2/24 in the category Materials Science: Ceramics

7- AUTHORS (in order of authorship): J. Sort, J. Nogués, S. Suriñach, J.S. Muñoz, M.D. Baró, E. Chappel, F. Dupont, G. Chouteau.

TITLE: Coercivity and squareness enhancement in ball milled hard magnetic-antiferromagnetic composites

JOURNAL/BOOK TITLE: Applied Physics Letters 79 (2001) 1142

KEY: A

DATE OF PUBLICATION: 2001

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR :** 3.849,

classified as nº 2/71 in the category Physics: Applied.

8- AUTHORS (in order of authorship): M. Rico, J. Sort, M. D. Baró, S. Suriñach, J. M. Greneche, J. A. Pérez- Alcázar **TITLE:** Análisis estructural de la serie $\text{Fe}_{60}\text{Mn}_{10}\text{Al}_{30-x}\text{B}_x$ ($2 \leq x \leq 10$) preparada por aleado mecánico

JOURNAL/BOOK TITLE: Revista Colombiana de Física 33, (2001) 131.

KEY: A

DATE OF PUBLICATION: 2001

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☐ NO X **IMPACT FACTOR :**

9- AUTHORS (in order of authorship): J. Sort, J. Nogués, S. Suriñach, J. S. Muñoz, E. Chappel, F. Dupont, G. Chouteau, M. D. Baró
TITLE: Structural and Magnetic Characterization of High-Coercive Ball-Milled Hard Magnetic (SmCo₅)+Antiferromagnetic (NiO) Composites
JOURNAL/BOOK TITLE: Materials Science Forum 368-388 (2002) 465. **KEY:** A
DATE OF PUBLICATION: 2002
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☐ NO X **IMPACT FACTOR:** 0.613 classified as nº 90/173 in the category Materials Science: Multidisciplinary

10- AUTHORS (in order of authorship): M.M. Rico, J. Sort, S. Suriñach, J.S. Muñoz, J.M. Greneche, G.A. Pérez-Alcázar, M.D. Baró
TITLE: Influence of the B content on the structural and magnetic properties of Fe₆₀Mn₁₀Al_{30-x}B_x prepared by mechanical alloying
JOURNAL/BOOK TITLE: Materials Science Forum 368-388 (2002) 497 **KEY:** A
DATE OF PUBLICATION: 2002
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☐ NO X **IMPACT FACTOR** : 0.613 classified as nº 90/173 in the category Materials Science: Multidisciplinary

11- AUTHORS (in order of authorship): J. Sort, J. Nogués, S. Suriñach, J. S. Muñoz, G. Chouteau, M. D. Baró
TITLE: Effect of magnetic interactions on the magnetic properties of ball-milled SmCo₅ + NiO powders
JOURNAL/BOOK TITLE: Journal of Magnetism and Magnetic Materials 242-245 (2002) 1287 **KEY:** A
DATE OF PUBLICATION: 2002
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☐ NO X **IMPACT FACTOR** : 1.046 classified as nº 54/173 in the category Materials Science: Multidisciplinary

12- AUTHORS (in order of authorship): J. Sort, S. Suriñach, J.S. Muñoz, M.D. Baró, J. Nogués, G. Chouteau, V. Skumryev, G.C. Hadjipanayis
TITLE: Improving the energy product of hard magnetic materials
JOURNAL/BOOK TITLE: Physical Review B 65 (2002) 174420 **KEY:** A
DATE OF PUBLICATION: 2002
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR** : 3.327 classified as nº 5/56 in the category Physics: Condensed Matter

13- AUTHORS (in order of authorship): J. Sort, N. Mateescu, J. Nogués, S. Suriñach, M.D. Baró
TITLE: Effect of the milling energy on the milling-induced hpc-fcc cobalt allotropic transformations
JOURNAL/BOOK TITLE: Journal of Metastable and Nanocrystalline Materials 12 (2002) 126 **KEY:** A
DATE OF PUBLICATION: 2002
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☐ NO X **IMPACT FACTOR** :

14- AUTHORS (in order of authorship): J. Sort, J. Nogués, S. Suriñach, J.S. Muñoz, M.D. Baró

TITLE: Coercivity enhancement in ball-milled and heat-treated Sr-ferrite with iron sulphide

JOURNAL/BOOK TITLE: Journal of Metastable and Nanocrystalline Materials 15-16 (2003) 599

KEY: A

DATE OF PUBLICATION: 2003

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☐ NO ☒ **IMPACT FACTOR :**

15- AUTHORS (in order of authorship): J. Sort, J. Nogués, S. Suriñach, M.D. Baró

TITLE: Microstructural aspects of the hcp-fcc allotropic phase transformation induced in cobalt by ball-milling

JOURNAL/BOOK TITLE: Philosophical Magazine 83 (2003) 439 **KEY:** A

DATE OF PUBLICATION: 2003

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR :** 1.629

classified as nº 4/69 in the category Metallurgy and Metallurgical Engineering

16- AUTHORS (in order of authorship): J. Sort, S. Suriñach, J.S. Muñoz, M.D. Baró, J. Nogués, S. de Brion, G. Chouteau

TITLE: Microstructural Magnetic interactions effects on the hard magnetic properties of ball-milled SmCo₅ + NiO and SmCo₅ + CoO composites: a ΔM plot study

JOURNAL/BOOK TITLE: Journal of Applied Physics 93 (2003) 8140

KEY: A

DATE OF PUBLICATION: 2003

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR :** 2.171,

classified as nº 5/71 in the category Physics: Applied

17- AUTHORS (in order of authorship): J. Nogués, J. Sort, S. Suriñach, J.S. Muñoz, M.D. Baró, J.F. Bobo; U. Lüders; E. Haanappel; M.R. Fitzsimmons; A. Hoffmann; J.W. Cai

TITLE: Isothermal tuning of exchange bias using pulse fields

JOURNAL/BOOK TITLE: Applied Physics Letters 82 (2003) 3044 **KEY:** A

DATE OF PUBLICATION: 2003

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR :** 4.049,

classified as nº 3/71 in the category Applied Physics

18- AUTHORS (in order of authorship): M. Gich, Ll.Casas, A. Roig, E. Molins, J. Sort, S. Suriñach, M.D. Baró, J.S. Muñoz, L. Morellon, M.R. Ibarra, J. Nogués

TITLE: High coercivity ultralight transparent magnets

JOURNAL/BOOK TITLE: Applied Physics Letters 82 (2003) 4307 **KEY:** A

DATE OF PUBLICATION: 2003

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR :** 4.049,

classified as nº 3/71 in the category Physics: Applied.

19- AUTHORS (in order of authorship): J. Sort, S. Suriñach, J.S. Muñoz, M.D. Baró, M. Wojcik, E. Jedryka, S. Nadolski, N. Sheludko, J. Nogués

TITLE: Role of staking faults in the structural and magnetic properties of ball milled cobalt
JOURNAL/BOOK TITLE: Physical Review B 68 (2003) 014421 **KEY:** A
DATE OF PUBLICATION: 2003
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR** : 2.962
classified as nº 5/56 in the category Physics: Condensed Matter.

20*- AUTHORS (in order of authorship): F. Garcia, J. Sort, B. Rodmacq, S. Auffret, B. Dieny
TITLE: Large anomalous enhancement of perpendicular exchange bias by introduction of a non-magnetic spacer between the ferromagnetic and antiferromagnetic layers
JOURNAL/BOOK TITLE: Applied Physics Letters 83 (2003) 3537 **KEY:** A
DATE OF PUBLICATION: 2003
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR** : 4.049,
classified as nº 3/71 in the category Physics: Applied

21- AUTHORS (in order of authorship): J. Sort, A. Zhilyaev, M. Zielinska, J. Nogués, S. Suriñach, J. Thibault, M.D. Baró
TITLE: Microstructural effects and large microhardness in cobalt processed by high pressure torsion consolidation of ball milled powders
JOURNAL/BOOK TITLE: Acta Materialia 51 (2003) 6385 **KEY:** A
DATE OF PUBLICATION: 2003
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR** : 3.059
classified as nº 1/69 in the category Metallurgy and Metallurgical Engineering.

22*- AUTHORS (in order of authorship): J. Sort, B. Rodmacq, S. Auffret, B. Dieny
TITLE: Pinned synthetic ferrimagnets with perpendicular anisotropy and tunable exchange bias
JOURNAL/BOOK TITLE: Applied Physics Letters 83 (2003) 1800 **KEY:** A
DATE OF PUBLICATION: 2003
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR** : 4.049,
classified as nº 3/71 in the category Physics: Applied

23- AUTHORS (in order of authorship): M. Popovici, A. Roig, Ll. Casas, M. Gich, E. Molins, C. Savii, D. Becherescu, J. Sort, S. Suriñach, J.S. Muñoz, M.D. Baró, J. Nogués
TITLE: Ultra-porous iron oxide-silica nanostructured aerogels from iron(II) precursors
JOURNAL/BOOK TITLE: Langmuir 20 (2004), 1425 **KEY:** A
DATE OF PUBLICATION: 2004
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR** : 3.098,
classified as nº 22/99 in the category Chemistry, Physical

24- AUTHORS (in order of authorship): J. Sort, D. C. Ile, A. Zhilyaev, A. Concustell, T. Czeppe, S. Suriñach, M. Stoica, J. Eckert, M. D. Baró
TITLE: Cold-consolidation of ball-milled Fe-based amorphous ribbons by high pressure torsion
JOURNAL/BOOK TITLE: Scripta Materialia 50 (2004) 1221 **KEY:** A
DATE OF PUBLICATION: 2004

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR** : 1.633
classified as nº 3/69 in the category Metallurgy and Metallurgical Engineering

25*- AUTHORS (in order of authorship): J. Sort, V. Langlais, S. Doppiu, B. Dieny, S. Suriñach, J. S. Muñoz, M. D. Baró, Ch. Laurent, J. Nogués
TITLE: Exchange bias effects in Fe nanoparticles embedded in an antiferromagnetic Cr₂O₃ matrix
JOURNAL/BOOK TITLE: Nanotechnology 15 (2004) S211 **KEY:** A
DATE OF PUBLICATION: 2004
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR** : 2.304
classified as nº 23/173 in the category Materials Science: Multidisciplinary

26*- AUTHORS (in order of authorship): J. Sort, B. Rodmacq, S. Auffret, B. Dieny
TITLE: Thermal stability of synthetic ferrimagnets with perpendicular-to-plane anisotropy
JOURNAL/BOOK TITLE: Journal of Applied Physics 95 (2004) 7163 **KEY:** A
DATE OF PUBLICATION: 2004
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR** : 2.171,
classified as nº 13/76 in the category Physics: Applied

27*- AUTHORS (in order of authorship): J. Sort, H. Glaczyńska, U. Ebels, M. Giersig, J. Rybczynski, B. Dieny
TITLE: Exchange bias effects in nanosized dots prepared by nanosphere lithography
JOURNAL/BOOK TITLE: Journal of Applied Physics 95 (2004) 7516 **KEY:** A
DATE OF PUBLICATION: 2004
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR** : 2.171,
classified as nº 13/76 in the category Physics: Applied

28*- AUTHORS (in order of authorship): J. Sort, B. Dieny, M. Fraune, C. König, B. Beschoten, G. Güntherodt,
TITLE: Perpendicular exchange bias in antiferromagnetic-ferromagnetic nanostructures
JOURNAL/BOOK TITLE: Applied Physics Letters 84 (2004) 3696 **KEY:** A
DATE OF PUBLICATION: 2004
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR** : 4.049,
classified as nº 3/76 in the category Physics: Applied

29- AUTHORS (in order of authorship): J. Sort, J. Nogués, S. Suriñach, J.S. Muñoz, M.D. Baró
TITLE: Correlation between stacking fault formation, allotropic phase transformations and magnetic properties of ball-milled cobalt
JOURNAL/BOOK TITLE: Materials Science Engineering A 375-377 (2004) 869 **KEY:** A
DATE OF PUBLICATION: 2004
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR** : 1.365
classified as nº 43/177 in the category Materials Science: Multidisciplinary

30*- AUTHORS (in order of authorship): J. Sort, F. Garcia, B. Rodmacq, S. Auffret, B. Dieny
TITLE: Enhancement of exchange bias through a non-magnetic spacer
JOURNAL/BOOK TITLE: Journal of Magnetism and Magnetic Materials 272-276 (2004) 355
KEY: A
DATE OF PUBLICATION: 2004
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☐ NO ☒ **IMPACT FACTOR :** 0.92 classified as n° 74/177 in the category Materials Science: Multidisciplinary

31- AUTHORS (in order of authorship): J.S. Micha, B. Dieny, J.F. Jacquot, J.R. Régnard, J. Sort
TITLE: Estimation of the Co nanoparticles size by magnetic measurements in Co/SiO₂ discontinuous multilayers
JOURNAL/BOOK TITLE: Journal of Magnetism and Magnetic Materials 272-276 (2004) E967
KEY: A
DATE OF PUBLICATION: 2004
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☐ NO ☒ **IMPACT FACTOR :** 0.92 classified as n° 74/177 in the category Materials Science: Multidisciplinary

32*- AUTHORS (in order of authorship): V. Baltz, J. Sort, S. Landis, B. Rodmacq, B. Dieny
TITLE: Size effects on exchange bias in sub-100 ferromagnetic-antiferromagnetic dots deposited on pre-patterned substrates
JOURNAL/BOOK TITLE: Applied Physics Letters 84 (2004) 4923 **KEY:** A
DATE OF PUBLICATION: 2004
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR :** 4.049, classified as n° 3/76 in the category Physics: Applied

33*- AUTHORS (in order of authorship): J. Sort, A. Popa, B. Rodmacq, B. Dieny
TITLE: Exchange bias properties in permalloy deposited onto a Pt/Co multilayer
JOURNAL/BOOK TITLE: Physical Review B 70 (2004) 174431 **KEY:** A
DATE OF PUBLICATION: 2004
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR :** 2.962 classified as n° 6/57 in the category Physics: Condensed Matter

34- AUTHORS (in order of authorship): M. Popovici, M. Gich, D. Nižňanský, A. Roig, C. Savii, L. Casas, E. Molins, K. Zaveta, C. Enache, J. Sort, S. de Brion, G. Chouteau, J. Nogués
TITLE: Optimized synthesis of the elusive ε -Fe₂O₃ phase by sol-gel chemistry
JOURNAL/BOOK TITLE: Chemistry of Materials 16 (2004) 5542 **KEY:** A
DATE OF PUBLICATION: 2004
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR :** 4.374 classified as n° 8/101 in the category Chemistry: Physical

35*- AUTHORS (in order of authorship): S. Doppiu, V. Langlais, J. Sort, S. Suriñach, M. D. Baró, Y. Zhang, G. Hadjipanayis, J. Nogués
TITLE: Controlled Reduction of NiO using reactive ball milling under hydrogen atmosphere leading to Ni-NiO composites
JOURNAL/BOOK TITLE: Chemistry of Materials 16 (2004) 5664 **KEY:** A

DATE OF PUBLICATION:2004

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR** : 4.374
classified as nº 8/101 in the category Chemistry: Physical

36- AUTHORS (in order of authorship): V. Baltz, J. Sort, S. Landis, B. Rodmacq, B. Dieny

TITLE: Tailoring size effects on the Exchange Bias in Ferromagnetic–Antiferromagnetic < 100 nm Nanostructures

JOURNAL/BOOK TITLE: Physical Review Letters 94 (2005) 117201 **KEY:** A

DATE OF PUBLICATION: 2005

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT

THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR** : 7.035

classified as nº 4/68 in the category Physics: Multidisciplinary

37*- AUTHORS (in order of authorship): J. Sort, V. Baltz, F. Garcia, B. Rodmacq, B. Dieny,

TITLE: Tailoring perpendicular exchange bias in [Pt/Co] - IrMn multilayers

JOURNAL/BOOK TITLE: Physical Review B 71 (2005) 054411 **KEY:** A

DATE OF PUBLICATION: 2005

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT

THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR** : 2.962

classified as nº 6/57 in the category Physics: Condensed Matter

38- AUTHORS (in order of authorship): F. Romanens, S. Pizzini, J. Sort, F. Garcia, J. Camarero, F. Yokaichiya, Y. Pennec, J. Vogel, B. Dieny

TITLE: Magnetic relaxation measurements of exchange biased (Pt/Co) multilayers with perpendicular anisotropy

JOURNAL/BOOK TITLE: European Physical Journal B 45 (2005) 185. **KEY:** A

DATE OF PUBLICATION: 2005

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT

THE YEAR OF PUBLICATION: YES ☐ NO X **IMPACT FACTOR** : 1.457

classified as nº 16/57 en la categoría de Physics: Condensed Matter

39- AUTHORS (in order of authorship): J. Nogués, J. Sort, V. Skumryev, V. Langlais, S. Doppiu, Ch. Laurent, B. Dieny, J.S. Muñoz, S. Suriñach, M.D. Baró, S. Stoyanov, Y. Zhang, G. Hadjipanayis, S. de Brion, G. Chouteau, D. Givord

TITLE: Exchange bias in ferromagnetic nanoparticles embedded in an antiferromagnetic matrix

JOURNAL/BOOK TITLE: International Journal of Nanotechnology 2 (2005) 23

KEY: R

DATE OF PUBLICATION: 2005

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT

THE YEAR OF PUBLICATION: YES ☐ NO X **IMPACT FACTOR** : --

40- AUTHORS (in order of authorship): B. Baretzky, M. D. Baró, G. P. Grabovetskaya J. Gubicza, M. B. Ivanov, Yu. R. Kolobov, T. G. Langdon, J. Lendvai, A. G. Lipnitskii, A. A. Mazilkin, A. A. Nazarov, J. Nogués, A. Ovidko, S. G. Protasova, G. I. Raab, Á. Révész, J. Sort, M. J. Starink, B. B. Straumal, S. Suriñach, T. Ungár, A. P. Zhilyaev

TITLE: Fundamentals of interface phenomena in advanced bulk nanoscale materials

JOURNAL/BOOK TITLE: Reviews on Advanced Materials Science 9 (2005) 45 **KEY:** R

DATE OF PUBLICATION: 2005

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☐ NO ☒ **IMPACT FACTOR :** --

41*- AUTHORS (in order of authorship): J. Sort, F. Garcia, S. Auffret, B. Rodmacq, B. Dieny, V. Langlais, S. Suriñach, J. S. Muñoz, M. D. Baró, J. Nogués

TITLE: Using exchange bias to extend the temperature range of square loop behaviour in [Pt/Co] multilayers with perpendicular anisotropy

JOURNAL/BOOK TITLE: Applied Physics Letters 87 (2005) 242504 **KEY:** A

DATE OF PUBLICATION: 2005

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR :** 4.127,

classified as nº 4/83 in the category Physics: Applied

TOTAL NUMBER OF TIMES CITED: 6

42*- AUTHORS (in order of authorship): M. Gich, A. Roig, C. Frontera, E. Molins, J. Sort, M. Popovici, G. Chouteau, D. Martín y Marero, J. Nogués

TITLE: Large coercivity and low temperature magnetic reorientation in ϵ -Fe₂O₃ nanoparticles

JOURNAL/BOOK TITLE: Journal of Applied Physics 98 (2005) 044307 **KEY:** A

DATE OF PUBLICATION: 2005

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR :** 2.498,

classified as nº 13/83 in the category Physics: Applied

43- AUTHORS (in order of authorship): A. Concustell, J. Sort, G. Alcalá, S. Mato, A. Gebert, J. Eckert, M. D. Baró

TITLE: Plastic deformation and mechanical softening of Pd₄₀Cu₃₀Ni₁₀P₂₀ bulk metallic glass during nanoindentation

JOURNAL/BOOK TITLE: Journal of Materials Research 20 (2005) 2719 **KEY:** A

DATE OF PUBLICATION: 2005

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR :** 2.104

classified as nº 28/178 in the category Materials Science: Multidisciplinary

44*- AUTHORS (in order of authorship): J. Sort, A. Hoffmann, S. H. Chung, K. Buchanan, M. Grimsditch, M. D. Baró, B. Dieny, J. Nogués

TITLE: Magnetization Reversal in Submicron Disks: Exchange biased vortices

JOURNAL/BOOK TITLE: Physical Review Letters 95 (2005) 067201 **KEY:** A

DATE OF PUBLICATION: 2005

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR :** 7.489,

classified as nº 4/69 in the category Physics: Multidisciplinary

45- AUTHORS (in order of authorship): J. Camarero, J. Sort, A. Hoffmann, J. M. García-Martín, B. Dieny, R. Miranda, J. Nogués

TITLE: Origin of the asymmetric magnetization reversal behavior in exchange-biased systems: Competing anisotropies

JOURNAL/BOOK TITLE: Physical Review Letters 95 (2005) 057204 **KEY:** A

DATE OF PUBLICATION: 2005

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR :** 7.489,

classified as nº 4/69 in the category Physics: Multidisciplinary

46*- AUTHORS (in order of authorship): S. Brück, J. Sort, V. Baltz, S. Suriñach, J. S. Muñoz, B. Dieny, M. D. Baró, J. Nogués
TITLE: Exploiting exchange bias length scales to fully tailor double-shifted hysteresis loops
JOURNAL/BOOK TITLE: Advanced Materials (2005) 17, 2978 **KEY:** A
DATE OF PUBLICATION: 2005
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR** : 9.107, classified as nº 5/178 in the category Materials Science: Multidisciplinary

47- AUTHORS (in order of authorship): J. Sort, S. Suriñach, M. D. Baró, D. Muraviev, V. Skumryev, J. Nogués
TITLE: Direct synthesis of isolated L1₀ FePt nanoparticles in a robust TiO₂ matrix via a combined sol-gel / pyrolysis route
JOURNAL/BOOK TITLE: Advanced Materials (2006) 18, 466 **KEY:** A
DATE OF PUBLICATION: 2006
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR** : 9.107, classified as nº 5/178 in the category Materials Science: Multidisciplinary

48- AUTHORS (in order of authorship): V. Baltz, J. Sort, S. Landis, B. Rodmacq, B. Dieny
TITLE: Thermal activation effects in the exchange bias of sub-100 nm ferromagnetic-antiferromagnetic nanostructures
JOURNAL/BOOK TITLE: Physical Review B 72 (2005) 104419 **KEY:** A
DATE OF PUBLICATION: 2005
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR** : 3.185, classified as nº 7/60 in the category Physics: Condensed Matter.

49*- AUTHORS (in order of authorship): J. Sort, B. Dieny, J. Nogués
TITLE: Exchange Bias in Antiferromagnetic–Ferromagnetic– Antiferromagnetic Structures with Out-Of-Plane Magnetization
JOURNAL/BOOK TITLE: Physical Review B 72 (2005) 104412 **KEY:** A
DATE OF PUBLICATION: 2005
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR** : 3.185, classified as nº 7/60 in the category Physics: Condensed Matter

50- AUTHORS (in order of authorship): J. Nogués, J. Sort, V. Langlais, S. Suriñach, V. Skumryev, J. S. Muñoz, M. D. Baró
TITLE: Exchange bias in nanostructures **KEY:** R
JOURNAL/BOOK TITLE: Physics Reports Review Section of Physics Letters (2005) 422, 65
DATE OF PUBLICATION: 2005
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR** : 10.458, classified as nº 2/69 in the category Physics: Multidisciplinary

51- AUTHORS (in order of authorship): A. Concustell, J. Sort, T.G. Woodcock, A. Gimazov, S. Suriñach, A. Gebert, J. Eckert, A. P. Zhilyaev, M.D. Baró

TITLE: Enhanced microhardness in nanocrystalline $\text{Ti}_{60}\text{Cu}_{14}\text{Ni}_{12}\text{Sn}_4\text{Ta}_{10}$ processed by Cu-mould casting and high pressure torsion

JOURNAL/BOOK TITLE: Intermetallics 14 (2006) 871

KEY: A

DATE OF PUBLICATION: 2006

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐

IMPACT FACTOR : 1.943,

classified as 4/65 in the category Metallurgy and Metallurgical Engineering

52- AUTHORS (in order of authorship): F. Romanens, S. Pizzini, F. Yokaichiya, M. Bonfim, Y. Pennec, J. Camarero, J. Vogel, J. Sort, F. Garcia, B. Rodmacq, B. Dieny

TITLE: Magnetic relaxation of exchange biased (Pt/Co) multilayers studied by time-resolved Kerr microscopy

JOURNAL/BOOK TITLE: Physical Review B 72 (2005) 134410

KEY: A

DATE OF PUBLICATION: 2005

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐

IMPACT FACTOR : 3.185,

classified as n° 7/60 in the category Physics: Condensed Matter

53*- AUTHORS (in order of authorship): J. Sort, G. Salazar-Álvarez, M. D. Baró, B. Dieny, A. Hoffmann, V. Novosad, J. Nogués

TITLE: Controlling magnetic vortices through exchange bias

JOURNAL/BOOK TITLE: Applied Physics Letters 88 (2006) 042502

KEY: A

DATE OF PUBLICATION: 2006

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐

IMPACT FACTOR : 3.977,

classified as n° 6/84 in the category Physics: Applied

54- AUTHORS (in order of authorship): M. Gich, C. Frontera, A. Roig, E. Taboada, E. Molins, H. R. Rechenberg, J. D. Adrison, W. A. A. Macedo, C. Ritter, V. Hardy, J. Sort, V. Skumryev, J. Nogués

TITLE: High and low temperature crystal and magnetic structures of epsilon- Fe_2O_3 and their correlation to its magnetic properties

JOURNAL/BOOK TITLE: Chemistry of Materials 18 (2006) 3889

KEY: A

DATE OF PUBLICATION: 2006

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION : YES ☒ NO ☐

IMPACT FACTOR : 5.104,

classified as n° 12/108 in the category Chemistry: Physics

55*- AUTHORS (in order of authorship): J. Sort, K. S. Buchanan, V. Novosad, A. Hoffmann, G. Salazar-Alvarez, M. D. Baró, B. Dieny, J. Nogués

TITLE: Imprinting vortices into antiferromagnets

JOURNAL/BOOK TITLE: Physical Review Letters 97 (2006) 067201

KEY: A

DATE OF PUBLICATION: 2006

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐

IMPACT FACTOR : 7.072,

classified as n° 5/68 in the category Physics: Multidisciplinary

56- AUTHORS (in order of authorship): A. Concustell, J. Sort, M.D. Baró, A.L. Greer

TITLE: Anelastic deformation of a $\text{Pd}_{40}\text{Cu}_{30}\text{Ni}_{10}\text{P}_{20}$ bulk metallic glass during nanoindentation

JOURNAL/BOOK TITLE: Applied Physics Letters 88 (2006) 171911

KEY: A

DATE OF PUBLICATION: 2006

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR** : 3.977,
classified as nº 6/84 in the category Physics: Applied

57- AUTHORS (in order of authorship): A. Bollero, L. D. Buda-Prejbeanu, V. Baltz, J. Sort, B. Rodmacq, and B. Dieny

TITLE: Magnetic behavior of systems composed of coupled ferromagnetic bilayers with distinct anisotropy directions

JOURNAL/BOOK TITLE: Physical Review B 73 (2006) 144407

KEY: A

DATE OF PUBLICATION: 2006

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR** : 3.107,
classified as nº 10/78 in the category Physics: Condensed Matter

58*- AUTHORS (in order of authorship): J. Sort, A. Concustell, E. Menéndez, S. Suriñach, K. V. Rao, S. C. Deevi, M. D. Baró, J. Nogués

TITLE: Periodic Arrays of Micrometer and Sub-micrometer Magnetic Structures Prepared by Nanoindentation of a Nonmagnetic Intermetallic Compound

JOURNAL/BOOK TITLE: Advanced Materials 18 (2006) 1717

KEY: A

DATE OF PUBLICATION: 2006

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR** : 7.896
classified as nº6/176 in the category Materials Science: Multidisciplinary

59- AUTHORS (in order of authorship): J. Nogués, E. Apiñaniz, J. Sort, M. Amboage, M. d'Astuto, O. Mathon, R. Puzniak, I. Fita, J. S. Garitaonandia, S. Suriñach, J. S. Muñoz, M. D. Baró, F. Plazaola, F. Baudelet

TITLE: Volume expansion contribution to the magnetism of atomically disordered intermetallic alloys

JOURNAL/BOOK TITLE: Physical Review B 74 (2006) 024407

KEY: A

DATE OF PUBLICATION: 2006

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR** : 3.107,
classified as nº 10/78 in the category Physics: Condensed Matter

60*- AUTHORS (in order of authorship): J. Sort, A. Concustell, E. Menéndez, S. Suriñach, M. D. Baró, J. Farran, J. Nogués

TITLE: Selective generation of local ferromagnetism in austenitic stainless steel

JOURNAL/BOOK TITLE: Applied Physics Letters 89 (2006) 032509

KEY: A

DATE OF PUBLICATION: 2006

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR** : 3.977,
classified as nº 6/84 in the category Physics: Applied

61- AUTHORS (in order of authorship): J. Nogués, V. Skumryev, J. Sort, S. Stoyanov, D. Givord

TITLE: Shell driven magnetic stability in core-shell nanoparticles

JOURNAL/BOOK TITLE: Physical Review Letters 97 (2006) 157203

KEY: A

DATE OF PUBLICATION: 2006

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR** :7.072, classified as nº 5/68 in the category Physics: Multidisciplinary

62- AUTHORS (in order of authorship): N. Van Steenberge, J. Das, A. Concustell, J. Sort, S. Suriñach, J. Eckert, M. D. Baró

TITLE: Influence of annealing on the microstructure and hardness of $\text{Ti}_{67.79}\text{Fe}_{29.36}\text{Sn}_{3.85}$ nanocomposite rods

JOURNAL/BOOK TITLE: Scripta Materialia 55 (2006) 1087 **KEY:** A

DATE OF PUBLICATION: 2006

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR** : 2.161, classified as nº3/65 in the category Metallurgy and Metallurgical Engineering

63- AUTHORS (in order of authorship): A. Bollero, V. Baltz, B. Rodmacq, B. Dieny, S. Landis, J. Sort

TITLE: Out-of-plane exchange bias properties of [Pt/Co]-IrMn bilayers sputtered on pre-patterned nanostructures

JOURNAL/BOOK TITLE: Applied Physics Letters 89 (2006) 152502 **KEY:** A

DATE OF PUBLICATION: 2006

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR** :3.977, classified as nº 6/84 in the category Physics: Applied

64- AUTHORS (in order of authorship): J. Camarero, J. Miguel, J. Vogel, F. Garcia, F. Romanens, S. Pizzini, J. Sort, N.B. Brookes, B. Dieny, J. B. Goedkoop

TITLE: Magnetization reversal, asymmetry and role of uncompensated spins in perpendicular exchange coupled systems

JOURNAL/BOOK TITLE: Applied Physics Letters 89 (2006) 232507 **KEY:** A

DATE OF PUBLICATION: 2006

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR** : 3.977, classified as nº 6/84 in the category Physics: Applied

65*- AUTHORS (in order of authorship): E. Menéndez, J. Sort, V. Langlais, A. Zhilyaev, J. S. Muñoz, S. Suriñach, J. Nogués, M.D. Baró

TITLE: Cold compaction of metal-ceramic composites using high pressure torsion

JOURNAL/BOOK TITLE: Journal of Alloys and Compounds 434-435 (2007) 505

KEY: A

DATE OF PUBLICATION: 2007

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR** : 1.455, classified as nº 6/66 in Metallurgy and Metallurgical Engineering

66- AUTHORS (in order of authorship): A. Concustell, N. Mattern, H. Wendrock, U. Kuehn, A. Gebert, J. Eckert, A. L. Greer, J. Sort, M. D. Baró

TITLE: Mechanical properties of a two-phase amorphous Ni-Nb-Y alloy studied by nanoindentation

JOURNAL/BOOK TITLE: Scripta Materialia 56 (2007) 85 **KEY:** A

DATE OF PUBLICATION: 2007

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR** : 2.481, classified as nº 2/66 in Metallurgy and Metallurgical Engineering

67- AUTHORS (in order of authorship): G. Salazar, J. Sort, A. Uheida, M. Muhammed, S. Suriñach, M. D. Baró, J. Nogués

TITLE: Reversible post-synthesis tuning of the superparamagnetic blocking temperature of Fe₂O₃ nanoparticles by adsorption and desorption of Co(II) ions

JOURNAL/BOOK TITLE: Journal of Materials Chemistry 17 (2007) 322 **KEY:** A

DATE OF PUBLICATION: 2007

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR** : 4.339, classified as nº 17/110 in the category Chemistry: Physics

68*- AUTHORS (in order of authorship): N. Van Steenberge, J. Sort, A. Concustell, J. Das, S. Suriñach, J. Eckert, M. D. Baró

TITLE: Dynamical Softening and Indentation Size Effects in a Zr-Based Bulk Glass-Forming Alloy: Free Volume Considerations

JOURNAL/BOOK TITLE: Scripta Materialia 56 (2007) 605 **KEY:** A

DATE OF PUBLICATION: 2007

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR** : 2.481, classified as nº 2/66 in Metallurgy and Metallurgical Engineering

69- AUTHORS (in order of authorship): X. F. Han, M. Grimsditch, J. Meerschaut, A. Hoffmann, Y. Ji, J. Sort, J. Nogués, R. Divan, J. E. Pearson, D. J. Keavney

TITLE: Magnetic Instability Regions in Patterned Magnetic Structures: Influence of Element Shape on Magnetization Reversal Dynamics

JOURNAL/BOOK TITLE: Physical Review Letters 98 (2007) 147202 **KEY:** A

DATE OF PUBLICATION: 2007

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR** : 6.944, classified as nº 5/69 in the category Physics: Multidisciplinary

70- AUTHORS (in order of authorship): A. Concustell, J. Sort, S. Suriñach, A. Gebert, J. Eckert, A. P. Zhilyaev, M.D. Baró

TITLE: Severe plastic deformation of a Ti-based nanocomposite alloy studied by nanoindentation

JOURNAL/BOOK TITLE: Intermetallics 15 (2007) 1038 **KEY:** A

DATE OF PUBLICATION: 2007

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR** : 2.219, classified as nº 3/66 in the category Metallurgy and Metallurgical Engineering

71*- AUTHORS (in order of authorship): E. Menéndez, J. Sort, A. Concustell, S. Suriñach, J. Nogués, M. D. Baró

TITLE: Microstructural evolution during solid state sintering of ball-milled nanocomposite WC-10wt%Co powders

JOURNAL/BOOK TITLE: Nanotechnology 18 (2007) 185609 **KEY:** A

DATE OF PUBLICATION: 2007

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR** : 3.310, classified as nº 2/67 in the category Engineering: Multidisciplinary

72*- AUTHORS (in order of authorship): E. Menéndez, J. Sort, S. Suriñach, M.D. Baró, J. Nogués

TITLE: Tailoring deformation-induced effects in Co powders by milling them with α -Al₂O₃

JOURNAL/BOOK TITLE: Journal of Materials Research 22 (2007) 2998 **KEY:** A

DATE OF PUBLICATION: 2007

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR** : 1.916, classified as nº 39/189 in the category Materials Science: Multidisciplinary

73- AUTHORS (in order of authorship): N. Wiese, T. Dimopoulos, M. Rühlig, J. Wecker, G. Reiss, J. Sort, J. Nogués

TITLE: Strong temperature dependence of antiferromagnetic coupling in CoFeB/Ru/CoFeB

JOURNAL/BOOK TITLE: Europhysics Letters 78 (2007) 67002 **KEY:** A

DATE OF PUBLICATION: 2007

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR** : 2.206, classified as nº 15/69 in the category Physics: Multidisciplinary

74- AUTHORS (in order of authorship): G. Salazar-Álvarez, J. Sort, S. Suriñach, M. D. Baró, J. Nogués

TITLE: Synthesis and size-dependent exchange bias in inverted core-shell MnO/Mn₃O₄ nanoparticles

JOURNAL/BOOK TITLE: Journal of the American Chemical Society 129 (2007) 9102

KEY: A

DATE OF PUBLICATION: 2007

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR** : 7.885, classified as nº 7/127 in the category Chemistry: Multidisciplinary

75- AUTHORS (in order of authorship): G. Salazar-Alvarez, R. T. Olsson, J. Sort, W. A. A. Macedo, J. D. Ardisson, M. D. Baró, J. Nogués

TITLE: Enhanced coercivity in Co-rich near stoichiometric Co_xFe_(3-x)O₄ nanoparticles prepared in large batches

JOURNAL/BOOK TITLE: Chemistry of Materials 19 (2007) 4957 **KEY:** A

DATE OF PUBLICATION: 2007

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR** : 4.883, classified as nº 13/110 in the category Chemistry: Physics

76- AUTHORS (in order of authorship): V. Baltz, A. Bollero, B. Rodmacq, and B. Dieny, J. Sort

TITLE: Comment on "Size-dependent scaling of perpendicular exchange bias in magnetic nanostructures"

JOURNAL/BOOK TITLE: Physical Review B 77 (2008) 017401

KEY: A

DATE OF PUBLICATION: 2008

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR** : 3.172, classified as nº 9/61 in the category Physics: Condensed Matter

77- AUTHORS (in order of authorship): A. Bollero, B. Dieny, J. Sort, K. S. Buchanan, S. Landis, J. Nogués

TITLE: Enhanced exchange bias effects in a nanopatterned system consisting of two perpendicularly coupled ferromagnets

JOURNAL/BOOK TITLE: Applied Physics Letters 92 (2008) 022508 **KEY:** A

DATE OF PUBLICATION: 2008

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR** : 3.596, classified as nº 8/94 in the category Physics: Applied

78- AUTHORS (in order of authorship): J. Nogués, V. Langlais, J. Sort, S. Doppiu, S. Suriñach, M.D. Baró

TITLE: Magnetic properties of Ni-NiO (ferromagnetic-antiferromagnetic) nanocomposites obtained from a partial mechanochemical reduction of NiO

JOURNAL/BOOK TITLE: Journal of Nanoscience and Nanotechnology 8 (2008) 2923

KEY: A

DATE OF PUBLICATION: 2008

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR** : 1.987, classified as nº 36/127 in the category Chemistry: Multidisciplinary

79*- AUTHORS (in order of authorship): J. Sort, N. Van Steenberge, A. Gimazov, A. Concustell, S. Suriñach, A. Gebert, J. Eckert, M. D. Baró

TITLE: Study of the mechanical behaviour of Zr-based bulk metallic glass using micro- and nano-indentation

JOURNAL/BOOK TITLE: The Open Materials Science Journal 2 (2008) 1 **KEY:** A

DATE OF PUBLICATION: 2008

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☐ NO ☒ **IMPACT FACTOR** : --

80- AUTHORS (in order of authorship): A. Hoffmann, J. Sort, K. S. Buchanan, J. Nogués

TITLE: Exchange-Biased Magnetic Vortices

JOURNAL/BOOK TITLE: IEEE Transactions on Magnetics 44 (2008) 1968 **KEY:** R

DATE OF PUBLICATION: 2008

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☐ NO ☒ **IMPACT FACTOR** : 0.959, classified as nº 60/94 in the category Physics: Applied

81- AUTHORS (in order of authorship): J. Fassbender, M. O. Liedke, T. Strache, E. Menéndez, J. Sort, K. V. Rao, C. Deevi, J. Nogués

TITLE: Ion mass dependence of irradiation-induced local creation of ferromagnetism in Fe₆₀Al₄₀ alloys

JOURNAL/BOOK TITLE: Physical Review B 77 (2008) 174430 **KEY:** A

DATE OF PUBLICATION: 2008

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR** : 3.172, classified as nº 9/61 in the category Physics: Condensed Matter

82- AUTHORS (in order of authorship): A.P. Zhilyaev, A. Concustell, J. Sort, A. Gimazov, S. Suriñach, M.D. Baró
TITLE: Ti-based composite subjected to deformation by high-pressure torsion
JOURNAL/BOOK TITLE: Journal of Functional Materials 1 (2008) 21 **KEY:** A
DATE OF PUBLICATION: 2008
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☐ NO X **IMPACT FACTOR** : --

83*- AUTHORS (in order of authorship): J. Sort, K. S. Buchanan, J. E. Pearson, A. Hoffmann, E. Menéndez, G. Salazar-Alvarez, M. D. Baró, M. Miron, B. Rodmacq, B. Dieny, J. Nogués
TITLE: Tailoring the magnetization reversal of elliptical dots using exchange bias (invited)
JOURNAL/BOOK TITLE: Journal of Applied Physics 103, 07C109 **KEY:** A
DATE OF PUBLICATION: 2008
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR** : 2.171, classified as nº 17/94 in the category Physics: Applied

84- AUTHORS (in order of authorship): N. Van Steenberge, A. Concustell, J. Sort, J. Das, A. Gebert, S. Suriñach, J. Eckert, M.D. Baró
TITLE: Microstructural inhomogeneities introduced in a Zr-based bulk metallic glass upon low-temperature annealing
JOURNAL/BOOK TITLE: Materials Science and Engineering A 491 (2008) 124 **KEY:** A
DATE OF PUBLICATION: 2008
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☐ NO X **IMPACT FACTOR** : 1.453, classified as nº 60/189 in the category Materials Science: Multidisciplinary

85- AUTHORS (in order of authorship): E. Menéndez, A. Martinavicius, M. O. Liedke, G. Abrasonis, J. Fassbender, J. Sommerlatte, K. Nielsch, S. Suriñach, M. D. Baró, J. Nogués, J. Sort
TITLE: Patterning of magnetic structures on austenitic stainless steel by local ion beam nitriding
JOURNAL/BOOK TITLE: Acta Materialia 56 (2008) 4570 **KEY:** A
DATE OF PUBLICATION: 2008
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR** : 3.624, classified as nº 1/66 in the category Metallurgy and Metallurgical Engineering

86*- AUTHORS (in order of authorship): E. Menéndez, G. Salazar-Álvarez, A. P. Zhilyaev, S. Suriñach, M. D. Baró, J. Nogués, J. Sort
TITLE: Cold consolidation of metal-ceramic nanocomposite powders with large ceramic percentages
JOURNAL/BOOK TITLE: Advanced Functional Materials 18 (2008) 3293 **KEY:** A
DATE OF PUBLICATION: 2008
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR** : 7.496, classified as nº 7/189 in the category Materials Science: Multidisciplinary

87*- AUTHORS (in order of authorship): E. Menéndez, J. Sort, M. O. Liedke, J. Fassbender, S. Suriñach, M. D. Baró, J. Nogués

TITLE: Two-fold origin of the deformation-induced ferromagnetism in bulk Fe₆₀Al₄₀ (at.%) alloys

JOURNAL/BOOK TITLE: New Journal of Physics 10 (2008) 103030 **KEY:** A

DATE OF PUBLICATION: 2008

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR** : 3.264, classified as nº 10/69 in the category Physics: Multidisciplinary

88*- AUTHORS (in order of authorship): E. Menéndez, M. O. Liedke, J. Fassbender, T. Gemming, A. Weber, L. J. Heyderman, K. V. Rao, S. C. Deevi, S. Suriñach, M. D. Baró, J. Sort, J. Nogués

TITLE: Direct magnetic patterning due to the generation of ferromagnetism by selective ion irradiation of paramagnetic FeAl alloys

JOURNAL/BOOK TITLE: Small 5 (2009) 229 **KEY:** A

DATE OF PUBLICATION: 2009

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR** : 6.171, classified as nº 13/214 in the category Materials Science: multidisciplinar

89- AUTHORS (in order of authorship): M. Tanase, A. K. Petford-Long, O. Heinonen, K. S. Buchanan, J. Sort, J. Nogués

TITLE: Magnetization reversal in circularly exchange-biased ferromagnetic disks

JOURNAL/BOOK TITLE: Physical Review B 79 (2009) 014436 **KEY:** A

DATE OF PUBLICATION: 2009

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR** : 3.475, clasificada como nº 12/66 en la categoría Física: materia condensada

90*- AUTHORS (in order of authorship): J. Fornell, A. Concustell, S. Suriñach, W. H. Li, N. Cuadrado, A. Gebert, M. D. Baró, J. Sort

TITLE: Yielding and intrinsic plasticity of Ti-Zr-Ni-Cu-Be bulk metallic glass

JOURNAL/BOOK TITLE: International Journal of Plasticity 25 (2009) **KEY:** A

DATE OF PUBLICATION: 2009

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR** : 4.791, classified as nº 3/116 in the category Mechanical Engineering

91*- AUTHORS (in order of authorship): J. Sort, J. Fornell, W. Li, S. Suriñach and M. D. Baró

TITLE: Influence of the loading rate on the indentation response of Ti-based metallic glass

JOURNAL/BOOK TITLE: Journal of Materials Research 24 (2009) 918 **KEY:** A

DATE OF PUBLICATION: 2009

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☐ NO X **IMPACT FACTOR** : 1.667, classified as nº 72/214 in the category Materials Science Multidisciplinar

92*- AUTHORS (in order of authorship): E. Menéndez, J. Sort, M.O. Liedke, J. Fassbender, S. Suriñach, M.D. Baró, J. Nogués

TITLE: Controlled generation of ferromagnetic martensite from paramagnetic austenite in AISI 316L austenitic stainless steel

JOURNAL/BOOK TITLE: Journal of Materials Research 24 (2009) 565 **KEY:** A

DATE OF PUBLICATION: 2009

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT

THE YEAR OF PUBLICATION: YES ☐ NO ☒ **IMPACT FACTOR** : 1.667,

classified as nº 72/214 in the category Materials Science Multidisciplinar

93- AUTHORS (in order of authorship): E. Jiménez, J. Camarero, J. M. García-Martín, J. Sort, N. Mikuszeit, A. Hoffmann, B. Dieny, J. Nogués, and R. Miranda

TITLE: Emergence of noncollinear anisotropies from interfacial magnetic frustration in exchange-bias systems

JOURNAL/BOOK TITLE: Physical Review B 80 (2009) 014415

KEY: A

DATE OF PUBLICATION: 2009

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT

THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR** : 3.475,

classified as nº 12/66 in the category Physics: Condensed Matter

94- AUTHORS (in order of authorship): A. Concustell, J. Sort, J. Fornell, E. Rossinyol, S. Suriñach, A. Gebert, J. Eckert, M. D. Baró

TITLE: Work-hardening mechanisms of the Ti₆₀Cu₁₄Ni₁₂Sn₄Nb₁₀ nanocomposite alloy

JOURNAL/BOOK TITLE: Journal of Materials Research 24 (2009) 3146

KEY: A

DATE OF PUBLICATION:

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT

THE YEAR OF PUBLICATION: YES ☐ NO ☒ **IMPACT FACTOR** : 1.667,

classified as nº 72/214 in the category Materials Science: multidisciplinary

95*- AUTHORS (in order of authorship): J. Fornell, S. Suriñach, M. D. Baró, J. Sort

TITLE: Unconventional elastic properties, deformation behaviour and fracture characteristics of newly developed rare-earth bulk metallic glasses

JOURNAL/BOOK TITLE: Intermetallics 17 (2009) 1090

KEY: A

DATE OF PUBLICATION:

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT

THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR** : 2.231,

classified as nº 4/70 in the category Metallurgy and Metallurgical Engineering

96- AUTHORS (in order of authorship): I.V. Golosovsky, G. German Salazar, A. López, M. A. González, J. Sort, S. Suriñach, M.D. Baró, J. Nogués

TITLE: Magnetic proximity effect features in antiferromagnetic/ferromagnetic core/shell nanoparticles

JOURNAL/BOOK TITLE: Physical Review Letters 102 (2009) 247201

KEY: A

DATE OF PUBLICATION:

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT

THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR** : 7.328,

classified as nº 6/71 in Physics: multidisciplinary

97- AUTHORS (in order of authorship): E. Jimenez, J. Camarero, R. Miranda, J. Sort, A. Hoffmann, J. M. Garcia-Martin, B. Dieny, J. Nogués

TITLE: Highly asymmetric magnetic behavior in exchange biased systems induced by non-collinear field cooling

JOURNAL/BOOK TITLE: Applied Physics Letters 95 (2009) 122508 **KEY:** A

DATE OF PUBLICATION:

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR** : 3.554, classified as nº 14/108 in the category Applied Physics

98*- AUTHORS (in order of authorship): G. Salazar-Alvarez, J. J. Kavich, J. Sort, A. Mugarza, S. Stepanow, A. Potenza, H. Marchetto, S. S. Dhesi, V. Baltz, B. Dieny, A. Webber, L. J. Heyderman, J. Nogués, P. Gambardella

TITLE: Direct evidence of imprinted vortex states in the antiferromagnet of exchange biased microdisks

JOURNAL/BOOK TITLE: Applied Physics Letters 95 (2009) 012510 **KEY:** A

DATE OF PUBLICATION:

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR** : 3.554, classified as nº 14/108 in the category Applied Physics

99- AUTHORS (in order of authorship): J. Nogués, S. Stepanow, A. Bollero, J. Sort, B. Dieny, F. Nolting, P. Gambardella

TITLE: Simultaneous in-plane and out-of-plane exchange bias using a single antiferromagnetic layer

JOURNAL/BOOK TITLE: Applied Physics Letters 95 (2009) 152515 **KEY:** A

DATE OF PUBLICATION:

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR** : 3.554, classified as nº 14/108 in the category Applied Physics

100*- AUTHORS (in order of authorship): J. Fornell, E. Rossinyol, S. Suriñach, M. D. Baró, J. Sort

TITLE: Improvement of the mechanical properties in a Zr-based metallic glass caused by deformation-induced nanocrystallization

JOURNAL/BOOK TITLE: Scripta Materialia 62 (2010) 13 **KEY:** A

DATE OF PUBLICATION:

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR** : 2.699, classified as nº 3/75 in the category Metallurgy and Metallurgical Engineering

101*- AUTHORS (in order of authorship): E. Pellicer, A. Varea, S. Pané, B. J. Nelson, E. Menéndez, M. Estrader, S. Suriñach, M. D. Baró, J. Nogués, J. Sort

TITLE: Nanocrystalline electroplated Cu-Ni: metallic thin films with enhanced mechanical properties and tuneable magnetic behaviour

JOURNAL/BOOK TITLE: Advanced Functional Materials 20 (2010) 983 **KEY:** A

DATE OF PUBLICATION:

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR** : 10.179, classified as nº 10/232 in the category Materials Science Multidisciplinary

102- AUTHORS (in order of authorship): S. González, J. Sort, D.V. Louzguine-Luzgin, J.H. Perepezko, M.D. Baró, A. Inoue

TITLE: Tuning the microstructure and mechanical properties of Al-based composites by addition of Pd

JOURNAL/BOOK TITLE: Intermetallics 18 (2010) 2377

KEY: A

DATE OF PUBLICATION: 2010

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR** : 1.649, classified as nº 8/75 in the category Metallurgy and Metallurgical Engineering

103*- AUTHORS (in order of authorship): J. Sort, J. Fornell, S. Suriñach, M. D. Baró

TITLE: Evolution of the mechanical properties of Ti-based metallic glass during depth-sensing load-unload nanoindentation cycles

JOURNAL/BOOK TITLE: Nanoscience and Nanotechnology Letters 2 (2010) 298

KEY: A

DATE OF PUBLICATION: 2010

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: SI ☐ NO ☒ **IMPACT FACTOR** : 0.528, classified as nº 183/232 in the category Materials Science Multidisciplinary

104- AUTHORS (in order of authorship): J. Fornell, S. González, E. Rossinyol, S. Suriñach, M.D. Baró, D.V. Louzguine-Luzgin, J.H. Perepezko, J. Sort, A. Inoue

TITLE: Enhanced Mechanical Properties due to Structural Changes Induced by Devitrification in Fe-Co-B-Si-Nb Bulk Metallic Glass

JOURNAL/BOOK TITLE: Acta Materialia 58 (2010)

KEY: A

DATE OF PUBLICATION: 2010

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR** : 3.755, classified as nº 1/75 in the category Metallurgy and Metallurgical Engineering

105- AUTHORS (in order of authorship): E. Menéndez, J.C. Stinville, C. Tromas, C. Templier, P. Villechaise, J.P. Rivière, M. Drouet, A. Martinavicius, G. Abrasonis, J. Fassbender, M. D. Baró, J. Sort, J. Nogués

TITLE: Out-of-plane magnetic patterning on austenitic stainless steels using plasma nitriding

JOURNAL/BOOK TITLE: Applied Physics Letters 96 (2010) 242509

KEY: A

DATE OF PUBLICATION: 2010

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR** : 3.844, classified as nº 17/125 in the category Applied Physics

106- AUTHORS (in order of authorship): A. López-Ortega, D. Tobia, E. Winkler, I. V. Golosovsky, G. Salazar-Alvarez, S. Estradé, M. Estrader, J. Sort, M. A. González, S. Suriñach, J. Arbiol, F. Peiró, R. D. Zysler, M. D. Baró, J. Nogués

TITLE: Size dependent passivation shell and magnetic properties in antiferromagnetic/ferrimagnetic, core/shell, MnO nanoparticles

JOURNAL/BOOK TITLE: Journal of the American Chemical Society 132 (2010) 9398

KEY: A

DATE OF PUBLICATION: 2010

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR** : 9.907, classified as nº 11/154 in the category Chemistry Multidisciplinary

107*- AUTHORS (in order of authorship): N. Van Steenberge, S. Hóbor, S. Suriñach, A. Zhilyaev, F. Houdellier, F. Momprou, M. D. Baró, Á. Révész, J. Sort

TITLE: Effects of severe plastic deformation on the structure and thermo-mechanical properties of $Zr_{55}Cu_{30}Al_{10}Ni_5$ bulk metallic glass

JOURNAL/BOOK TITLE: Journal of Alloys and Compounds 500 (2010) 61

KEY: A

DATE OF PUBLICATION:

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT

THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR** : 2.289, classified as nº 4/75 in the category Metallurgy and Metallurgical Engineering

108*- AUTHORS (in order of authorship): J. Sort, L. F. Bonavina, A. Varea, C. Souza, W. J. Botta, C. S. Kiminami, C. Bolfarini, S. Suriñach, M. D. Baró, J. Nogués

TITLE: Out-of-Plane Magnetic Patterning based on Indentation-Induced Nanocrystallization of a Metallic Glass

JOURNAL/BOOK TITLE: Small 6 (2010) 1543 **KEY:** A

DATE OF PUBLICATION: 2010

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT

THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR** : 8.349, classified as nº 12/232 in the category Materials Science Multidisciplinary

109- AUTHORS (in order of authorship): F. S. Santos, J. Sort, J. Fornell, M. D. Baró, S. Suriñach, C. Bolfarini, W. J. Botta, C. S. Kiminami

TITLE: Mechanical behavior under nanoindentation of a new Ni-based glassy alloy produced by melt-spinning and copper mold casting

JOURNAL/BOOK TITLE: Journal of Non-Crystalline Solids 356 (2010) 2251

KEY: A

DATE OF PUBLICATION: 2010

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT

THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR** : 1.537, classified as nº 5/25 in the category Materials Science, Ceramics.

110*- AUTHORS (in order of authorship): J. Sort

TITLE: Vidrios metálicos: cuando el desorden estructural se convierte en una ventaja

JOURNAL/BOOK TITLE: Investigación y Ciencia 412 (2011) 8 **KEY:** A

DATE OF PUBLICATION: 2011

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT

THE YEAR OF PUBLICATION: YES ☐ NO ☒ **IMPACT FACTOR** :

111*- AUTHORS (in order of authorship): J. Fornell, M.D. Baró, S. Suriñach, A. Gebert, J. Sort

TITLE: Influence of the deformation-induced martensitic transformations on the mechanical properties of nanocomposite Cu-Zr-(Al) systems

JOURNAL/BOOK TITLE: Advanced Engineering Materials (2011) 13 (2011) 57

KEY: A

DATE OF PUBLICATION: 2011

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT

THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR** : 1.185, classified as nº 112/232 in the category Materials Science Multidisciplinary

112- AUTHORS (in order of authorship): E. Jiménez, J. Camarero, P. Perna, N. Mikuszeit, F. J. Teran, J. Sort, J. Nogués, J. M. García-Martín, A. Hoffmann, B. Dieny, and R. Miranda
TITLE: Role of anisotropy configuration in exchange-biased system
JOURNAL/BOOK TITLE: Journal of Applied Physics (2011) 109 (2011) 07D730
KEY: A
DATE OF PUBLICATION:
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR** : 2.168, classified as nº 37/125 in the category Applied Physics

113*- AUTHORS (in order of authorship): E. Pellicer, E. Rossinyol, M. Cabo, A. López-Ortega, M. Estrader, S. Suriñach, M. D. Baró, J. Nogués, J. Sort
TITLE: Oxide-matrix based nanocomposite materials for advanced magnetic and optical functionalities in: Nanocomposite Materials, Theory and Applications", Intech - ISBN 978-953-307-165-7
JOURNAL/BOOK TITLE: Nanocomposite Materials, Theory and Applications (ed. B. S. R. Reddy), chapter 15, pp. 343-358.
KEY: BC
DATE OF PUBLICATION: 2011
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☐ NO ☒ **IMPACT FACTOR** :

114*- AUTHORS (in order of authorship): J. Fornell, S. Suriñach, M. D. Baró, J. Sort
TITLE: Indentation plastic work and large compression plasticity in in-situ nanocrystallized $Zr_{62}Cu_{18}Ni_{10}Al_{10}$ bulk metallic glass
JOURNAL/BOOK TITLE: Journal of Alloys and Compounds (2011) 509S (2011) S87–S91
KEY: A
DATE OF PUBLICATION: 2011
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR** : 2.289, classified as nº 4/75 in the category Metallurgy and Metallurgical Engineering

115- AUTHORS (in order of authorship): K. M. Sivaraman, O. Ergeneman, S. Pané, E. Pellicer, J. Sort, K. Shou, S. Suriñach, M. D. Baró and B. J. Nelson
TITLE: Electrodeposition of cobalt - yttrium hydroxide/oxide nanocomposite films from particle-free aqueous baths containing chloride salts
JOURNAL/BOOK TITLE: Electrochimica Acta 56 (2011) 5142. **KEY:** A
DATE OF PUBLICATION: 2011
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☐ NO ☒ **IMPACT FACTOR** : 3.832, classified as nº 7/27 in the category Electrochemistry

116*- AUTORS: A. Varea, E. Menéndez, J. Montserrat, E. Lora-Tamayo, A. Weber, L. J. Heyderman, S. C. Deevi, K. V. Rao, S. Suriñach, M. D. Baró, K. S. Buchanan, J. Nogués, J. Sort
TÍTOL: Tuneable magnetic patterning of paramagnetic $Fe_{60}Al_{40}$ (at. %) by consecutive ion irradiation through pre-lithographed shadow masks
JOURNAL/BOOK TITLE: Journal of Applied Physics 109 (2011) 093918.
KEY: A
DATE OF PUBLICATION: 2011

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR :** 2.168, classified as nº 37/125 in the category Applied Physics

117- AUTHORS (in order of authorship): E. Pellicer, A. Varea, S. Pané, K. M. Sivaraman, B. J. Nelson, S. Suriñach, M. D. Baró, J. Sort

TITLE: A comparison between fine-grained and nanocrystalline electrodeposited Cu-Ni films. Insights on mechanical and corrosion performance

JOURNAL/BOOK TITLE: Surface and Coatings Technology 205 (2011) 5285.

KEY: A

DATE OF PUBLICATION: 2011

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR :** 1.867, classified as nº 5/18 in the category Materials Science, Coatings and Films.

118- AUTHORS (in order of authorship): M. A. Zeeshan, K. Shou, S. Pané, E. Pellicer, J. Sort, K.M. Sivaraman, M. D. Baró, B. J. Nelson

TITLE: Structural and Magnetic Characterization of Batch-Fabricated Nickel Encapsulated Multi-Walled Carbon Nanotubes

JOURNAL/BOOK TITLE: Nanotechnology 22 (2011) 275713.

KEY: A

DATE OF PUBLICATION: 2011

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR :** 3.979, classified as nº 32/232 in the category Materials Science, Multidisciplinary.

119*- AUTHORS (in order of authorship): E. Pellicer, A. Varea, S. Kartik, S. Pané, S. Suriñach, M.D. Baró, J. Nogués, B. Nelson, J. Sort

TITLE: Grain boundary segregation and interdiffusion effects in nickel-copper alloys: an effective means to improve the thermal stability of nanocrystalline nickel

JOURNAL/BOOK TITLE: ACS Appl. Mater. Interf. 3 (2011) 2265

KEY: A

DATE OF PUBLICATION: 2011

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR :** 4.525, classified as nº 27/232 in the category Materials Science, Multidisciplinary.

120- AUTHORS (in order of authorship): S. Pané, V. Panagiotopoulou, S. Fusco, E. Pellicer, J. Sort, D. Monacki, K. M. Sivaraman, B. E. Kratochvil, M. D. Baró, B. J. Nelson

TITLE: On the effects of saccharine in the Localized Electrochemical Deposition of Cu-rich Cu-Ni Circular Microtowers

JOURNAL/BOOK TITLE: Electrochemistry Communications 13 (2011) 973

KEY: A

DATE OF PUBLICATION: 2011

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR :** 4.859, classified as nº 3/27 in the category electrochemistry.

121- AUTHORS (in order of authorship): S. Pané, E. Pellicer, K. M. Sivaraman, S. Suriñach, M. D. Baró, B. J. Nelson, J. Sort

TITLE: High-performance electrodeposited Co-rich CoNiReP permanent magnets

JOURNAL/BOOK TITLE: Electrochimica Acta 56 (2011) 8979 **KEY:** A
DATE OF PUBLICATION: 2011
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☐ NO ☒ **IMPACT FACTOR :** 3.832, classified as nº 7/27 in the category Electrochemistry

122- AUTHORS (in order of authorship): D. Gebauer, V. Oliynyk, M. Salajkova, J. Sort, Q. Zhou, L. Bergström, G. Salazar-Alvarez
TITLE: A transparent hybrid of nanocrystalline cellulose and amorphous calcium carbonate nanoparticles
JOURNAL/BOOK TITLE: Nanoscale 3 (2011) 3563
KEY: A
DATE OF PUBLICATION: 2011
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR :** 5.914, classified as nº 18/232 in the category Materials Science, Multidisciplinary.

123- AUTHORS (in order of authorship): E. Pellicer, S. Pané, K. M. Sivaraman, O. Ergeneman, S. Suriñach, M. D. Baró, B. J. Nelson, J. Sort
TITLE: Effects of the anion in glycine-containing electrolytes on the mechanical properties of electrodeposited Co-Ni films
JOURNAL/BOOK TITLE: Materials Chemistry and Physics 130 (2011) 1381
KEY: A
DATE OF PUBLICATION: 2011
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR :** 2.234, classified as nº 51/232 in the category Materials Science, Multidisciplinary

124- AUTHORS (in order of authorship): J. Fornell, N. Van Steenberghe, A. Varea, E. Rossinyol, E. Pellicer, S. Suriñach, M.D. Baró, J. Sort
TITLE: Enhanced mechanical properties and in-vitro corrosion behavior of amorphous and devitrified Ti₆₀Zr₁₀Cu₃₈Pd₁₂ metallic glass
JOURNAL/BOOK TITLE: Journal of the Mechanical Behavior of Biomedical Materials 4 (2011), 1709. **KEY:** A
DATE OF PUBLICATION: 2011
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR :** 2.814, classified as nº 15/72 in the category Biomedical Engineering

125- AUTHORS (in order of authorship): G. Salazar-Alvarez, H. Lidbaum, A. López-Ortega, M. Estrader, K. Leifer, J. Sort, S. Suriñach, M. D. Baró, J. Nogués
TITLE: Two-, Three-, and Four-component Magnetic Multilayer Onion Nanoparticles Based on Iron Oxides and Manganese Oxides
JOURNAL/BOOK TITLE: Journal of the American Chemical Society 133 (2011) 16738.
KEY: A
DATE OF PUBLICATION: 2011
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR :** 9.907, classified as nº 11/154 in the category Chemistry Multidisciplinary

126- AUTHORS (in order of authorship): S. González, E. Pellicer, J. Fornell, A. Blanquer, Ll. Barrios, E. Ibáñez, P. Solsona, S. Suriñach, M. D. Baró, C. Nogués, J. Sort

TITLE: Improved mechanical performance and delayed corrosion phenomena in biodegradable Mg-Zn-Ca alloys through Pd-alloying

JOURNAL/BOOK TITLE: Journal of the Mechanical Behavior of Biomedical Materials 6 (2012) 53 **KEY:** A

DATE OF PUBLICATION: 2012

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR :** 2.814, classified as nº 15/72 in the category Biomedical Engineering

127*- AUTHORS (in order of authorship): J. Fornell, S. González, E. Pellicer, N. Van Steenberge, P. Pérez, S. Suriñach, M.D. Baró, J. Sort

TITLE: Deformation and fracture behavior of corrosion-resistant, potentially biocompatible, Ti₄₀Zr₁₀Cu₃₈Pd₁₂ bulk metallic glass

JOURNAL/BOOK TITLE: Journal of Alloys and Compounds 536 (2012) S74.

DATE OF PUBLICATION: 2012

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR :** 2.289, classified as nº 4/75 in the category Metallurgy and Metallurgical Engineering

128- AUTHORS (in order of authorship): J. Fornell, N. Van Steenberge, S. Suriñach, M.D. Baró, J. Sort

TITLE: Influence of the Si content on the microstructure and mechanical properties of Ti-Ni-Cu-Si-Sn nanocomposite alloys

JOURNAL/BOOK TITLE: Journal of Alloys and Compounds 536 (2012) S186.

KEY: A

DATE OF PUBLICATION: 2012

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR :** 2.289, classified as nº 4/75 in the category Metallurgy and Metallurgical Engineering

129- AUTHORS (in order of authorship): A. Varea, E. Pellicer, S. Pané , B. J. Nelson, S. Suriñach, M. D. Baró, J. Sort

TITLE: Mechanical Properties and Corrosion Behaviour of Nanostructured Cu-rich CuNi Electrodeposited Films

JOURNAL/BOOK TITLE: International Journal of Electrochemical Science 7 (2012) 1288.

KEY: A

DATE OF PUBLICATION: 2012

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR :** 3.729, classified as nº 9/27 in the category Electrochemistry

130- AUTHORS (in order of authorship): E. Menéndez, J. Sort, A. Varea, A. Concustell, S. Suriñach, J. Montserrat, E. Lora-Tamayo, M. D. Baró, J. Nogués

TITLE: Cuando el desorden genera magnetismo- When disorder generates magnetism

JOURNAL/BOOK TITLE: Revista de Física 26 (2012) 16 **KEY:** A

DATE OF PUBLICATION: 2012

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☐ NO ☒ **IMPACT FACTOR :**

131- AUTHORS (in order of authorship): S. Schuerle, S. Pané, E. Pellicer, J. Sort, M. D. Baró, B. J. Nelson

TITLE: Helical and Tubular Lipid Microstructures Electroless-Coated with CoNiReP for Wireless Magnetic Manipulation

JOURNAL/BOOK TITLE: Small 8 (2012) 1498 **KEY:** A

DATE OF PUBLICATION: 2012

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR :** 8.349, classified as nº 12/232 in the category Materials Science Multidisciplinary

132- AUTHORS (in order of authorship): E. Pellicer, S. Pané, V. Panagiotopoulou, S. Fusco, K. M. Sivaraman, S. Suriñach, M. D. Baró, B. J. Nelson and J. Sort

TITLE: Localized Electrochemical Deposition of Porous Cu-Ni Microcolumns: Insights into the Growth Mechanisms and the Mechanical Performance

JOURNAL/BOOK TITLE: International Journal of Electrochemical Science 7 (2012) 4014.

KEY: A

DATE OF PUBLICATION: 2012

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR :** 3.729, classified as nº 9/27 in the category Electrochemistry

133- AUTHORS (in order of authorship): S. González, E. Pellicer, S. Suriñach, M. D. Baró, J. Sort

TITLE: Mechanical and corrosion behaviour of as-cast and annealed Zr₆₀Cu₂₀Al₁₀Fe₅Ti₅ bulk metallic glass

JOURNAL/BOOK TITLE: Intermetallics 28 (2012) 149 **KEY:** A

DATE OF PUBLICATION: 2012

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR :** 1.649, classified as nº 8/75 in the category Metallurgy and Metallurgical Engineering

134- AUTHORS (in order of authorship): S. González, E. Pellicer, E. Rossinyol, S. Suriñach, M.D. Baró, J. Sort

TITLE: Mechanical and in-vitro corrosion behaviour of Fe-containing TiNb(Zr-Fe)Ta alloys

JOURNAL/BOOK TITLE: Digest Journal of Nanomaterials and Biostructures 7 (2012) 641 **KEY:** A

DATE OF PUBLICATION: 2012

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☐ NO ☒ **IMPACT FACTOR :** 1.200, classified as nº 110/232 in the category Materials Science, Multidisciplinary

135- AUTHORS (in order of authorship): A. López-Ortega, M. Estrader, G. Salazar-Alvarez, S. Estradé, I. Golosovsky, R. Dumas, D. Keavney, M. Vasilakaki, K. N. Trohidou, J. Sort, F. Peiró, S. Suriñach, M. D. Baró, J. Nogués

TITLE: Strongly exchange coupled inverse ferrimagnetic soft / hard, Mn_xFe_{3-x}O₄/Fe_xMn_{3-x}O₄, core / shell heterostructured nanoparticles

JOURNAL/BOOK TITLE: Nanoscale 4 (2012) 5138 **KEY:** A

DATE OF PUBLICATION: 2012

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR :** 5.914, classified as nº 18/232 in the category Materials Science, Multidisciplinary.

136*- AUTHORS (in order of authorship): A. Hynowska, E. Pellicer, J. Fornell, S. González, N. Van Steenberge, S. Suriñach, A. Gebert, M. Calin, J. Eckert, M. D. Baró, J. Sort

TITLE: Nanostructured beta-phase Ti-31.0Fe-9.0Sn and sub-micrometer structured Ti-39.3Nb-13.3Zr-10.7Ta alloys for biomedical applications: microstructure benefits on the mechanical and corrosion performances

JOURNAL/BOOK TITLE: Materials Science & Engineering C 32(2012) 2418.

KEY: A

DATE OF PUBLICATION: 2012

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT

THE YEAR OF PUBLICATION: YES ☐ NO ☒ **IMPACT FACTOR :** 2.686,

classified as nº 10/25 in the category Materials Science, Biomaterials.

137- AUTHORS (in order of authorship): Ll.Yedra, A. Eljarrat, R. Arenal, E. Pellicer, M.Cabo, A. López-Ortega, M. Estrader, J. Sort, M. D. Baró, S. Estradé, F. Peiró

TITLE: EEL spectroscopic tomography: towards a new dimension in nanomaterials analysis

JOURNAL/BOOK TITLE: Ultramicroscopy 122 (2012) 12.

KEY: A

DATE OF PUBLICATION: 2012

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT

THE YEAR OF PUBLICATION: YES ☐ NO ☒ **IMPACT FACTOR :** 2.471,

classified as nº 3/10 in the category Microscopy.

138- AUTHORS (in order of authorship): C. Schütz, J. Sort, Z. Bacsik, V. Oliynyk, E. Pellicer, A. Fall, L. Wagberg, L. Berglund, L. Bergström, G. Salazar-Alvarez

TITLE: Hard and transparent films formed by nanocellulose-TiO₂ nanoparticle hybrids

JOURNAL/BOOK TITLE: Plos One 7 (2012) e45828 **KEY:** A

DATE OF PUBLICATION: 2012

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT

THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR :** 4.092,

classified as nº 12/85 in the category Biology.

139- AUTHORS (in order of authorship): N. Tsyntsar, H. Cesiulis, M. Donten, J. Sort, E. Pellicer, E. J. Podlaha-Murphy

TITLE: Modern trends in tungsten alloys electrodeposition with iron group metals

JOURNAL/BOOK TITLE: Surface Engineering and Applied Electrochemistry 48 (2012) 491.

KEY: R

DATE OF PUBLICATION: 2012

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT

THE YEAR OF PUBLICATION: YES ☐ NO ☒ **IMPACT FACTOR :** 0.332,

classified as nº 27/27 in the category Electrochemistry.

140- AUTHORS (in order of authorship): J. Fornell, E. Pellicer, N. Van Steenberge, S. González, A. Gebert, S. Suriñach, M.D. Baró, J. Sort

TITLE: Improved plasticity and corrosion behavior in Ti-Zr-Cu-Pd metallic glass with minor additions of Nb: an alloy composition intended for biomedical applications

JOURNAL/BOOK TITLE: Materials Science & Engineering A 559 (2013) 159.

KEY: A

DATE OF PUBLICATION: 2013

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT

THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR :** 2.409,

classified as nº 6/75 in the category Metallurgy and Metallurgical Engineering

141- AUTHORS (in order of authorship): E. Pellicer, S. González, A. Blanquer, S. Suriñach, M.D. Baró, L. Barrios, E. Ibáñez, C. Nogués, J. Sort

TITLE: On the biodegradability, mechanical behavior and cytocompatibility of amorphous $\text{Mg}_{72}\text{Zn}_{23}\text{Ca}_5$ and crystalline $\text{Mg}_{70}\text{Zn}_{23}\text{Ca}_5\text{Pd}_2$ alloys as temporary implant materials

JOURNAL/BOOK TITLE: Journal of Biomedical Materials Research: Part A 101 (2013) 502.

KEY: A

DATE OF PUBLICATION: 2013

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR :** 2.841, classified as nº 18/76 in the category Materials Science, Biomaterials.

142- AUTHORS (in order of authorship): O. Ergeneman, K. M. Sivaraman, P. Eberle, G. Chatzipirpiridis, M. Suter, S. Pané, E. Pellicer, J. Sort, B. J. Nelson

TITLE: Cobalt-Nickel Microcantilevers for Biosensing

JOURNAL/BOOK TITLE: Journal of Intelligent Material Systems and Structures 24 (2013) 2215.

KEY: A

DATE OF PUBLICATION: 2013

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☐ NO ☒ **IMPACT FACTOR :** 2.172, classified as nº 68/251 in the category Materials Science, Engineering.

143*- AUTHORS (in order of authorship): E. Pellicer, E. Menéndez, J. Fornell, J. Nogués, A. Vantomme, K. Temst, J. Sort

TITLE: Mesoporous oxide-diluted magnetic semiconductors prepared by Co implantation in nanocast 3D-ordered $\text{In}_2\text{O}_{3-y}$ materials

JOURNAL/BOOK TITLE: Journal of Physical Chemistry C 117 (2013) 17084.

KEY: A

DATE OF PUBLICATION: 2013

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR :** 4.835, classified as nº 29/251 in the category Materials Science, Engineering.

144- AUTHORS (in order of authorship): M. A. Zeeshan, S. Pané, S. K. Youn, E. Pellicer, S. Schuerle, J. Sort, S. Fusco, H. Gyu Park and B. J. Nelson

TITLE: Graphite Coating of Iron Nanowires for Nanorobotic Applications: Synthesis, Characterization and Magnetic Wireless Manipulation

JOURNAL/BOOK TITLE: Advanced Functional Materials 23 (2013) 823.

KEY: A

DATE OF PUBLICATION: 2013

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR:** 10.439, classified as nº 9/136 in the category Applied Physics.

REMARK: Article selected for the Inside Cover of Adv. Funct. Mater. Vol. 23 (issue 7), p. 782.

145- AUTHORS (in order of authorship): K. L. Krycka, J. A. Borchers, G. Salazar-Alvarez, A. López-Ortega, M. Estrader, S. Estradé, E. Winkler, R. D. Zysler, J. Sort, F. Peiró, M. D. Baró, C. C. Kao, J. Nogués

TITLE: Resolving Material-Specific Structures within $\text{Fe}_3\text{O}_4/\text{Mn}_2\text{O}_3$ Core/Shell Nanoparticles Using Anomalous Small-Angle X-ray Scattering (ASAXS)

JOURNAL/BOOK TITLE: ACS Nano 7 (2013) 921-931.

KEY: A

DATE OF PUBLICATION: 2013

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR:** 12.033, classified as nº 7/148 in the category Chemistry, Multidisciplinary.

146- AUTHORS (in order of authorship): K. L. Krycka, J. A. Borchers, M. Laver, G. Salazar-Alvarez, A. López-Ortega, M. Estrader, S. Suriñach, M. D. Baró, J. Sort, J. Nogués

TITLE: Correlating Material-Specific Layers and Magnetic Distributions within Onion-Like Fe₃O₄/MnO/Mn₂O₃ Core/Shell Nanoparticles

JOURNAL/BOOK TITLE: Journal of Applied Physics 113 (2013) 17B531.

KEY: A

DATE OF PUBLICATION: 2013

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR:** 2.185, classified as nº 37/136 in the category Applied Physics.

147*- AUTHORS (in order of authorship): S. Pané, B. Özkale, K. M. Sivaraman, C. Ruiz-Camps, S. Suriñach, M. D. Baró, B. J. Nelson, J. Sort, E. Pellicer

TITLE: Tailoring the physical properties of electrodeposited CoNiReP alloys with large Re content by direct, pulse, and reverse pulse current techniques

JOURNAL/BOOK TITLE: Electrochimica Acta 96 (2013) 43.

KEY: A

DATE OF PUBLICATION: 2013

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR:** 4.086, classified as nº 4/27 in the category Electrochemistry.

148- AUTHORS (in order of authorship): S. González, E. Pellicer, S. Suriñach, M.D. Baró, J. Sort

TITLE: Biodegradation and mechanical integrity of magnesium and magnesium alloys suitable for implants

JOURNAL/BOOK TITLE: Biodegradation / Book 1 (Intech, Ed. R. Chamy), ISBN 980-953-307-968-9 (in press).

KEY: BC

DATE OF PUBLICATION: 2013

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☐ NO ☒ **IMPACT FACTOR:** --

149- AUTHORS (in order of authorship): E. Pellicer, M. Cabo, A. López-Ortega, M. Estrader, L. Yedra, S. Estradé, F. Peiró, Z. Saghi, P. Midgley, E. Rossinyol, I. V. Golosovsky, A. Mayoral, J. D. Prades, S. Suriñach, M. D. Baró, J. Sort, J. Nogués

TITLE: Controlled 3D-coating of the pores of highly-ordered mesoporous antiferromagnetic Co₃O₄ replicas with ferrimagnetic Fe_xCo_{3-x}O₄ nanolayers

JOURNAL/BOOK TITLE: Nanoscale 5 (2013) 5561

KEY: A

DATE OF PUBLICATION: 2013

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR:** 6.739, classified as nº 19/148 in the category Nanoscience and Nanotechnology.

150- AUTHORS (in order of authorship): N. Tsyntsar, H. Cesiulis, E. Pellicer, J.-P. Celis, J. Sort

TITLE: Structural, magnetic, and mechanical properties of electrodeposited cobalt-tungsten alloys: intrinsic and extrinsic interdependencies

JOURNAL/BOOK TITLE: Electrochimica Acta 104 (2013) 94

KEY: A

DATE OF PUBLICATION: 2013

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR:** 4.086, classified as n° 4/27 in the category Electrochemistry.

151*- AUTHORS (in order of authorship): E. Pellicer, M. Cabo, E. Rossinyol, P. Solsona, S. Suriñach, M. D. Baró, J. Sort

TITLE: Nanocasting of mesoporous In-TM (TM = Co, Fe, Mn) oxides: towards three-dimensional diluted-oxide magnetic semiconductor architectures

JOURNAL/BOOK TITLE: Advanced Functional Materials 23 (2013) 900

KEY: A

DATE OF PUBLICATION: 2013

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR:** 10.439, classified as n° 9/136 in the category Applied Physics.

152*- AUTHORS (in order of authorship): S. González, J. Fornell, E. Pellicer, S. Suriñach, M. D. Baró, A. L. Greer, F. J. Belzunce. J. Sort

TITLE: Influence of the shot-peening intensity on the structure and near-surface mechanical properties of Ti₄₀Zr₁₀Cu₃₈Pd₁₂ bulk metallic glass.

JOURNAL/BOOK TITLE: Applied Physics Letters 103 (2013) 211907

KEY: A

DATE OF PUBLICATION: 2013

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR:** 3.515, classified as n° 20/136 in the category Applied Physics.

153*- AUTHORS (in order of authorship): L. C. R. Aliaga, J. Fornell, S. Suriñach, M. D. Baró, C. S. Kiminami, C. Bolfarini, W. J. Botta, J. Sort

TITLE: Comparative study of nanoindentation on melt-spun ribbon and bulk metallic glass with composition Ni₆₀Nb₃₇B₃.

JOURNAL/BOOK TITLE: Journal of Materials Research 28 (2013) 2740

KEY: A

DATE OF PUBLICATION: 2013

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR:** 1.815, classified as n° 72/251 in the category Materials Science: Multidisciplinary.

154- AUTHORS (in order of authorship): E. García-Lecina, I. García-Urrutia, J.A. Díez, J. Fornell, E. Pellicer, J. Sort

TITLE: Codeposition of inorganic fullerene-like WS₂ nanoparticles in an electrodeposited nickel matrix under the influence of ultrasonic agitation.

JOURNAL/BOOK TITLE: Electrochimica Acta 114 (2013) 859

KEY: A

DATE OF PUBLICATION: 2013

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR:** 4.086, classified as nº 4/27 in the category Electrochemistry.

155*- AUTHORS (in order of authorship): E. Pellicer, E. Rossinyol, M. Rosado, M. Guerrero, R. Domingo-Roca, S. Suriñach, O. Castell, M. D. Baró, M. Roldán, J. Sort

TITLE: White-light photoluminescence and photoactivation in cadmium sulfide embedded in mesoporous silicon dioxide templates studied by confocal laser scanning microscopy.

JOURNAL/BOOK TITLE: Journal of Colloid & Interface Science 407(2013) 47.

KEY: A

DATE OF PUBLICATION: 2013

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR:** 3.552, classified as nº 38/148 in the category Materials Science: Multidisciplinary.

156*- AUTHORS (in order of authorship): J. Fornell, N.T.C. Oliveira, E. Pellicer, N.V. Steenberge, M.D. Baró, C. Bolfarini, J. Sort.

TITLE: Anodic formation of self-organized Ti(Nb,Sn) oxide nanotube arrays with tuneable aspect ratio and size Distribution

JOURNAL/BOOK TITLE: Electrochemistry Communications 33 (2013) 84.

KEY: A

DATE OF PUBLICATION: 2013

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR:** 4.287, classified as nº 4/27 in the category Electrochemistry.

157- AUTHORS (in order of authorship): E. Tolu, S. Garroni, E. Pellicer, J. Sort, C. Milanese, P. Cosseddu, M. D. Baró, G. Mulas.

TITLE: Highly-ordered mesoporous magnesium niobate high-k dielectric ceramics: synthesis, structural/mechanical characterization and thermal stability

JOURNAL/BOOK TITLE: Journal of Materials Chemistry C 1 (2013) 4948

KEY: A

DATE OF PUBLICATION: 2013

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR:** 6.626, classified as nº 20/148 in the category Chemistry, Multidisciplinary.

158- AUTHORS (in order of authorship): S. de Pedro, V. J. Cadarso, X. Muñoz-Berbel, J.A. Plaza, J. Sort, J. Brugger, S. Büttgenbach, A. Llobera

TITLE: Magnetically-actuated variable optical attenuators using ferrofluid-doped elastomer implemented by combination of soft lithography and inkjet printing technologies.

JOURNAL/BOOK TITLE: Micro Electro Mechanical Systems (MEMS), 2013 IEEE 26th International Conference on MEMS (2013), 548-551

KEY: A

DATE OF PUBLICATION: 2013

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☐ NO ☒ **IMPACT FACTOR:** --

159*- AUTHORS (in order of authorship): A. Varea, S. Pané, S. Gerstl, M. A. Zeeshan, B. Özkale, B. J. Nelson, S. Suriñach, M. D. Baró, J. Nogués, J. Sort, E. Pellicer

TITLE: Ordered arrays of ferromagnetic, compositionally-graded Cu_{1-x}Ni_x alloy nanopillars prepared by template-assisted electrodeposition.

JOURNAL/BOOK TITLE: Journal of Materials Chemistry C 1 (2013) 7215

KEY: A

DATE OF PUBLICATION: 2013

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR:** 6.626, classified as n° 20/148 in the category Chemistry, Multidisciplinary.

160*- AUTHORS (in order of authorship): M. Guerrero, S. Pané, B. J. Nelson, M. D. Baró, M. Roldán, J. Sort, E. Pellicer

TITLE: 3D hierarchically porous Cu-BiOCl nanocomposite films: One-step electrochemical synthesis, structural characterization and nanomechanical and photoluminescent properties.

JOURNAL/BOOK TITLE: Nanoscale 5 (2013) 12542

KEY: A

DATE OF PUBLICATION: 2013

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR:** 6.739, classified as n° 19/148 in the category Chemistry, Multidisciplinary.

161- AUTHORS (in order of authorship): A. Hynowska, A. Blanquer, E. Pellicer, J. Fornell, S. Suriñach, M. D. Baró, S. González, E. Ibáñez, Ll. Barrios, C. Nogués, J. Sort

TITLE: Novel Ti-Zr-Hf-Fe nanostructured alloy for biomedical applications.

JOURNAL/BOOK TITLE: Materials 6 (2013) 4930

KEY: A

DATE OF PUBLICATION: 2013

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR:** 1.879, classified as n° 81/251 in the category Materials Science, Engineering.

162*- AUTHORS (in order of authorship): J. Fornell, A. Concustell, A.L. Greer, S. Suriñach, M. D. Baró, J. Sort

TITLE: Effects of shot peening on the nanoindentation response of Cu_{47.5}Zr_{47.5}Al₅ metallic glass

JOURNAL/BOOK TITLE: Journal of Alloys and Compounds 586 (2014) S36-S40.

KEY: A

DATE OF PUBLICATION: 2014

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR:** 2.999, classified as n° 4/74 in the category Metallurgy and Metallurgical Engineering.

163- AUTHORS (in order of authorship): S. González, E. Pellicer, S. Suriñach, M. D. Baró, E. García-Lecina, J. Sort

TITLE: Effect of thermally-induced surface oxidation on the mechanical properties and corrosion resistance of Zr₆₀Cu₂₅Al₁₀Fe₅ bulk metallic glass

JOURNAL/BOOK TITLE: Science of Advanced Materials 6 (2014) 26.

KEY: A

DATE OF PUBLICATION: 2014

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR:** 2.598, classified as n° 56/260 in the category Materials Science, Multidisciplinary.

164- AUTHORS (in order of authorship): J. Fornell, E. Pellicer, E. García-Lecina, D. Nieto, S. Suriñach, M. D. Baró, J. Sort

TITLE: Structural and mechanical modifications induced on Cu_{47.5}Zr_{47.5}Al₅ metallic glass by surface laser treatments.

JOURNAL/BOOK TITLE: Applied Surface Science 290 (2014) 188-193. **KEY:** A

DATE OF PUBLICATION: 2014

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR:** 2.711, classified as nº 2/17 in the category Materials Science, coatings and films .

165- AUTHORS (in order of authorship): S. Abdi, M. Samadi Khoshkhoo, O. Shuleshova, M. Bönisch, M. Calin, L. Schultz, J. Eckert, M. D. Baró, J. Sort, A. Gebert

TITLE: Effect of Nb addition on microstructure evolution and nanomechanical properties of a glass-forming Ti-Zr-Si alloy.

JOURNAL/BOOK TITLE: Intermetallics 46 (2014) 156-163.

KEY: A

DATE OF PUBLICATION: 2014

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR:** 2.131, classified as nº 6/74 in the category Metallurgy and Metallurgical Engineering.

166- AUTHORS (in order of authorship): A. Blanquer, E. Pellicer, A. Hynowska, L. Barrios, E. Ibáñez, M. D. Baró, J. Sort, C. Nogués

TITLE: In vitro biocompatibility assessment of Ti₄₀Cu₃₈Zr₁₀Pd₁₂ bulk metallic glass.

JOURNAL/BOOK TITLE: Journal of Materials Science: Materials in Medicine 25 (2014) 163-172.

KEY: A

DATE OF PUBLICATION: 2014

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR:** 2.587, classified as nº 25/76 in the category Materials Science, biomaterials.

167- AUTHORS (in order of authorship): M. Lorenzetti, E. Pellicer, J. Sort, M. D. Baró, J. Kovač, S. Novak, S. Kobe

TITLE: Improvement to the corrosion resistance of Ti-based implants using hydrothermally synthesized nanostructured anatase coatings.

JOURNAL/BOOK TITLE: Materials 7 (2014) 180-194.

KEY: A

DATE OF PUBLICATION: 2014

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR:** 2.651, classified as nº 55/260 in the category Materials Science, Multidisciplinary

168- AUTHORS (in order of authorship): M. A. Zeeshan, R. Grisch, E. Pellicer, K. M. Sivaraman, K. Peyer, J. Sort, B. Özkale, M. S. Sakar, B. J. Nelson, S. Pané

TITLE: Hybrid helical magnetic microrobots obtained by 3D template-assisted electrodeposition.

JOURNAL/BOOK TITLE: Small 10 (2014) 1284-1288.

KEY: A

DATE OF PUBLICATION: 2014

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR:** 8.368, classified as nº 16/260 in the category Materials Science, Multidisciplinary.

169- AUTHORS (in order of authorship): M. Guerrero, J. A. Pérez, J. Ros, V. Branchadell, E. Pellicer, J. Sort, J. Pons

TITLE: Design of new N-polyether pyrazole derived ligands. Synthesis, characterization and regioselectivity

JOURNAL/BOOK TITLE: Current Organic Synthesis 11 (2014) 149-155.

KEY: A

DATE OF PUBLICATION: 2014

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☐ NO ☒ **IMPACT FACTOR:** 2.117, classified as nº 29/58 in the category Chemistry, Organic.

170- AUTHORS (in order of authorship): E. Menéndez, C. Templier, G. Abrasonis, J. F. Lopez-Barbera, J. Nogués, K. Temst, J. Sort

TITLE: A combinatorial study of the mechanical and magnetic properties of a gradually nitrided austenitic stainless steel single crystal

JOURNAL/BOOK TITLE: CrystEngComm 16 (2014) 3515–3520.

KEY: A

DATE OF PUBLICATION: 2014

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR:** 4.034, classified as nº 40/144 in the category Chemistry, Multidisciplinary.

171*- AUTHORS (in order of authorship): B. Özkale, E. Pellicer, M. A. Zeeshan, J. F. López-Barberá, J. Nogués, J. Sort, B. J. Nelson and S. Pané

TITLE: One-pot Electrosynthesis of Multi-layered Magnetic Metallopolymer Nanocomposites

JOURNAL/BOOK TITLE: Nanoscale 6 (2014) 4683–4690.

KEY: A

DATE OF PUBLICATION: 2014

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR:** 7.394, classified as nº 12/144 in the category Chemistry, Multidisciplinary.

172*- AUTHORS (in order of authorship): E. Menéndez, A. Hynowska, J. Fornell, S. Suriñach, J. Montserrat, K. Temst, A. Vantomme, M. D. Baró, E. García-Lecina, E. Pellicer, J. Sort

TITLE: Influence of the irradiation temperature on the surface structure and physical/chemical properties of Ar ion-irradiated bulk metallic glasses

JOURNAL/BOOK TITLE: Journal of Alloys and Compounds 610 (2014) 118-125.

KEY: A

DATE OF PUBLICATION: 2014

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR:** 2.999, classified as nº 4/74 in the category Metallurgy and Metallurgical Engineering.

173*- AUTHORS (in order of authorship): S. González, P. Pérez, E. Rossinyol, S. Suriñach, M. D. Baró, E. Pellicer, J. Sort

TITLE: Drastic influence of minor Fe or Co additions on the glass forming ability, martensitic transformations and mechanical properties of shape memory Zr-Cu-Al bulk metallic glass composites

JOURNAL/BOOK TITLE: Science and Technology of Advanced Materials 15 (2014) 035015.

KEY: A

DATE OF PUBLICATION: 2014

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR:** 3.513, classified as nº 42/260 in the category Materials Science, Multidisciplinary.

174- AUTHORS (in order of authorship): S. González, J. Sort

TITLE: Tuning the corrosion behavior of rapidly solidified and thermally-annealed Fe-Ti-Pd alloys

JOURNAL/BOOK TITLE: Advances in Alloys and Compounds 1 (2014) 46-53.

KEY: A

DATE OF PUBLICATION: 2014

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☐ NO ☒ **IMPACT FACTOR :**

175- AUTHORS (in order of authorship): S. de Pedro, V. J. Cadarso, X. Muñoz-Berbel, J.A. Plaza, J. Sort, J. Brugger, S. Büttgenbach, A. Llobera

TITLE: PDMS-based, magnetically-actuated variable optical attenuators obtained by soft lithography & inkjet

JOURNAL/BOOK TITLE: Sensors & Actuators: A 215 (2014) 30-35

KEY: A

DATE OF PUBLICATION: 2014

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR:** 1.973, classified as nº 42/261 in the category Engineering, Electrical.

176- AUTHORS (in order of authorship): M. Guerrero, A. Altube, E. García-Lecina, E. Rossinyol, M. D. Baró, E. Pellicer, J. Sort

TITLE: Facile *in Situ* Synthesis of BiOCl Nanoplates Stacked to Highly Porous TiO₂: A Synergistic Combination for Environmental Remediation

JOURNAL/BOOK TITLE: ACS Applied Materials & Interfaces 6 (2014) 13994–14000

KEY: A

DATE OF PUBLICATION: 2014

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR:** 6.723, classified as nº 42/260 in the category Materials Science, Multidisciplinary.

177*- AUTHORS (in order of authorship): B. Jang, E. Pellicer, M. Guerrero, X. Chen, H. Choi, B. J. Nelson, J. Sort, S. Pané

TITLE: Fabrication of Segmented Au/Co/Au Nanowires: Insights in the Quality of Co/Au Junctions

JOURNAL/BOOK TITLE: ACS Appl. Mater. Interfaces 6 (2014) 14583–14589.

KEY: A

DATE OF PUBLICATION: 2014

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR:** 6.723, classified as nº 42/260 in the category Materials Science, Multidisciplinary.

178- AUTHORS (in order of authorship): J. Zhang, M. D. Baró, E. Pellicer, J. Sort
TITLE: Electrodeposition of magnetic, superhydrophobic, non-stick, two-phase Cu–Ni foam films and their enhanced performance for hydrogen evolution reaction in alkaline water media
JOURNAL/BOOK TITLE: Nanoscale 6 (2014) 12490-12499.
KEY: A
DATE OF PUBLICATION: 2014
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR:** 7.394, classified as nº 19/157 in the category Chemistry, Multidisciplinary.

179*- AUTHORS (in order of authorship): I. Golvano-Escobal, B. Özkale, S. Suriñach, M. D. Baró, T. Dobrovolska, I. Krastev, S. Pané, J. Sort, E. Pellicer
TITLE: Self-organized spatio-temporal micropatterning in ferromagnetic Co–In films
JOURNAL/BOOK TITLE: Journal of Materials Chemistry C 2 (2014) 8259-8269.
KEY: A
DATE OF PUBLICATION: 2014
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR:** 4.696, classified as nº 33/260 in the category Materials Science, Multidisciplinary.

180- AUTHORS (in order of authorship): N. Tsyntsaru, B. Kavas, J. Sort, M. Urgan, J.-P. Celis
TITLE: Mechanical and frictional behaviour of nano-porous anodised aluminium
JOURNAL/BOOK TITLE: Materials Chemistry and Physics 148 (2014) 887-895.
KEY: A
DATE OF PUBLICATION: 2014
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR:** 2.259, classified as nº 60/157 in the category Chemistry, Multidisciplinary.

181*- AUTHORS (in order of authorship): E. Pellicer, J. Sort
TITLE: Ordered Mesoporous Nanomaterials
JOURNAL/BOOK TITLE: Nanomaterials 4 (2014) 902-904
KEY: A
DATE OF PUBLICATION: 2014
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☐ NO ☒ **IMPACT FACTOR:** 2.076, classified as nº 83/260 in the category Materials Science, Multidisciplinary.

182- AUTHORS (in order of authorship): A. Hynowska, A. Blanquer, E. Pellicer, J. Fornell, S. Suriñach, M. D. Baró, A. Gebert, M. Calin, J. Eckert, C. Nogués, E. Ibáñez, L. Barrios, J. Sort
TITLE: Nanostructured Ti-Zr-Pd-Si-(Nb) bulk metallic composites: novel biocompatible materials with superior mechanical strength and elastic recovery
JOURNAL/BOOK TITLE: Journal of Biomedical Materials Research: part B – Applied Biomaterials 103, 1569-1579.
KEY: A

DATE OF PUBLICATION: 2015

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR:** 2.759, classified as nº 22/76 in the category Materials Science, Biomaterials.

183*- AUTHORS (in order of authorship): R. Domingo-Roca, D. Esqué-de los Ojos, M. Guerrero, E. Pellicer, M. D. Baró, S. Suriñach, J. Sort

TITLE: Nanomechanical behavior of 3D porous metal-ceramic nanocomposite Bi/Bi₂O₃ films

JOURNAL/BOOK TITLE: Materials Science Engineering A 626 (2015) 150–158.

KEY: A

DATE OF PUBLICATION: 2015

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR:** 2.567, classified as nº 56/260 in the category Materials Science, Multidisciplinary.

184- AUTHORS (in order of authorship): G. Chatzipirpiridis, A. Sanoria, O. Ergeneman, J. Sort, J. Puigmartí-Luis, B. J. Nelson, E. Pellicer, S. Pané

TITLE: The electrochemical manipulation of apolar solvent drops in aqueous electrolytes by altering the surface polarity of polypyrrole architectures

JOURNAL/BOOK TITLE: Electrochemistry Communications 54 (2015) 32-35

KEY: A

DATE OF PUBLICATION: 2015

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR:** 4.847, classified as nº 3/28 in the category Electrochemistry.

185*- AUTHORS (in order of authorship): S. Fusco, H. W. Huang, K. Peyer, C. Peters, M. Haberli, A. Ulbers, A. Spyrogianni, E. Pellicer, J. Sort, S. Pratsinis, B.J. Nelson, M. Selman Sakar, S. Pané

TITLE: Shape-switching Microrobots for Medical Applications: The Influence of Shape in Drug Delivery and Locomotion

JOURNAL/BOOK TITLE: ACS Applied Materials & Interfaces 7 (2015) 6803-6811 **KEY:** A

DATE OF PUBLICATION: 2015

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR:** 6.723, classified as nº 23/260 in the category Materials Science, Multidisciplinary.

186*- AUTHORS (in order of authorship): A. Quintana, A. Varea, M. Guerrero, S. Suriñach, M. D. Baró, J. Sort, E. Pellicer

TITLE: Structurally and mechanically tunable molybdenum oxide films and patterned nanostructures by electrodeposition

JOURNAL/BOOK TITLE: Electrochimica Acta 173 (2015) 705-714 **KEY:** A

DATE OF PUBLICATION: 2015

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR:** 4.504, classified as nº 4/28 in the category Electrochemistry.

187*- AUTHORS (in order of authorship): B. Özkale, N. Shamsudhin, G. Chatzipirpiridis, M. Hoop, F. Gramm, X. Chen, X. Martí, J. Sort, E. Pellicer, S. Pané

TITLE: Multisegmented FeCo/Cu Nanowires: Electrosynthesis, Characterization, and Magnetic Control of Biomolecule Desorption

JOURNAL/BOOK TITLE: ACS Applied Materials & Interfaces 13 (2015) 7389-7396

KEY: A

DATE OF PUBLICATION: 2015

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR:** 6.723, classified as nº 23/260 in the category Materials Science, Multidisciplinary.

188- AUTHORS (in order of authorship): A. M. Lindo, E. Pellicer, M. A. Zeeshan, R. Grisch, F. Qiu, J. Sort, M. S. Sakar, B. J. Nelson, S. Pané

TITLE: The biocompatibility and anti-biofouling properties of magnetic core–multishell Fe@C NWs–AAO nanocomposites

JOURNAL/BOOK TITLE: Phys. Chem. Chem. Phys. 17 (2015) 13274-13279 **KEY:** A

DATE OF PUBLICATION: 2015

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR:** 4.493, classified as nº 32/139 in the category Chemistry, Physical.

189- AUTHORS (in order of authorship): A. M. López Marzo, M. Guerrero, T. Calvet, M. Font-Bardia, E. Pellicer, M. D. Baró, J. Pons, J. Sort

TITLE: New binuclear copper(II) coordination polymer based on mixed pyrazolic and oxalate ligands: structural characterization and mechanical properties

JOURNAL/BOOK TITLE: RSC Advances 5 (2015) 32369-32375 **KEY:** A

DATE OF PUBLICATION: 2015

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR:** 3.84, classified as nº 33/157 in the category Chemical, Engineering.

190- AUTHORS (in order of authorship): B. B. Medeiros, M. M. Medeiros, J. Fornell, J. Sort, M. D. Baró, A.M. Jorge Junior

TITLE: Nanoindentation response of Cu-Ti based metallic glasses: comparison between as-cast, relaxed and devitrified states

JOURNAL/BOOK TITLE: Journal of Non-Crystalline Solids, 425, 103-109 **KEY:** A

DATE OF PUBLICATION: 2015

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR:** 1.825, classified as nº 21/87 in the category Ceramics, Composites.

191- AUTHORS (in order of authorship): J. A. De Toro, D. P. Marques, P. Muñoz, V. Skumryev, J. Sort, D. Givord, J. Nogués

TITLE: High temperature magnetic stabilization of cobalt nanoparticles by an antiferromagnetic proximity effect

JOURNAL/BOOK TITLE: Physical Review Letters, 115, 057201 **KEY:** A

DATE OF PUBLICATION: 2015

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR:** 7.645, classified as nº 5/80 in the category Physics, Multidisciplinary.

192- AUTHORS (in order of authorship): D. A. Gilbert, L. Ye, A. Varea, S. Agramunt-Puig, N. del Valle, C. Navau, J. F. López-Barbera, K. S. Buchanan, A. Hoffmann, A. Sánchez, J. Sort, K. Liu, J. Nogués

TITLE: New Reversal Mode in Exchange Coupled Antiferromagnetic/Ferromagnetic Disks: Distorted Viscous Vortex

JOURNAL/BOOK TITLE: Nanoscale, 7, 9878-9885 **KEY:** A

DATE OF PUBLICATION: 2015

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR:** 7.394, classified as nº 19/157 in the category Nanoscience and Nanotechnology.

193- AUTHORS (in order of authorship): J. Pokki, J. Parmar, O. Ergeneman, H. Torun, M. Guerrero, E. Pellicer, J. Sort, S. Pané, B.J. Nelson

TITLE: Mobility-enhancing coatings for vitreoretinal surgical devices: hydrophilic and enzymatic coatings investigated by microrheology

JOURNAL/BOOK TITLE: ACS Applied Materials & Interfaces 7, 22018–22028 **KEY:** A

DATE OF PUBLICATION: 2015

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR:** 6.723, classified as nº 23/260 in the category Materials Science, Multidisciplinary.

194- AUTHORS (in order of authorship): F. Mushtaq, M. Guerrero, S. Saka, A.M. Lindo, M. Hoop, J. Sort, X. Chen, B. J. Nelson, E. Pellicer, S. Pané

TITLE: Magnetically Driven Bi₂O₃/BiOCl-Based Hybrid Microrobots for Photocatalytic Water Remediation

JOURNAL/BOOK TITLE: Journal of Materials Chemistry A, 3, 23670–2367 **KEY:** A

DATE OF PUBLICATION: 2015

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR:** 7.443, classified as nº 18/139 in the category Chemistry, Physical.

195- AUTHORS (in order of authorship): K. C. Chan, J. Sort

TITLE: Metallic Glasses

JOURNAL/BOOK TITLE: Metals, 5, 2397–2400 **KEY:** A

DATE OF PUBLICATION: 2015

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☐ NO ☒ **IMPACT FACTOR:** 1.574, classified as nº 31/74 in the category Metallurgy and Metallurgical Engineering.

196- AUTHORS (in order of authorship): S. Abdi, S. Oswald, P. F. Gostin, A. Helth, J. Sort, M. D. Baró, M. Calin, L. Schultz, J. Eckert, A. Gebert

TITLE: Designing new biocompatible glass-forming Ti_{75-x}Zr₁₀Nb_xSi₁₅ (x= 0, 15) alloys: corrosion, passivity and apatite formation

JOURNAL/BOOK TITLE: Journal of Biomedical Materials Research: part B – Applied Biomaterials 104, 27-38.

KEY: A

DATE OF PUBLICATION: 2016

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR:** 3.373

197- AUTHORS (in order of authorship): D. Esqué de los Ojos, J. Sort

TITLE: Nanoindentation modelling: From finite element to atomistic simulations

JOURNAL/BOOK TITLE: A. Tiwari (Editor), Applied Nanoindentation in Advanced Materials (ISBN: 978-1-119-08449-5), John Wiley & Sons, Inc. **KEY:** CB

DATE OF PUBLICATION: 2017

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☐ NO ☒

198- AUTHORS (in order of authorship): D. Esqué-de los Ojos, R. Ghisleni, A. Battisti, G. Mohanty, J. Michler, J. Sort, A. J. Brunner

TITLE: Understanding the mechanical behaviour of fibre/matrix interfaces during push-in tests by means of finite element simulations and a cohesive zone model

JOURNAL/BOOK TITLE: Computational Materials Science 117, 330–337 **KEY:** A

DATE OF PUBLICATION: 2016

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR:** 2.530

199- AUTHORS (in order of authorship): N. Tsyntsar, S. Silkin, H. Cesiulis, M. Guerrero, E. Pellicer, J. Sort

TITLE: Toward uniform electrodeposition of magnetic Co-W mesowires arrays: direct versus pulse current deposition

JOURNAL/BOOK TITLE: Electrochimica Acta, 188, 589–601 **KEY:** A

DATE OF PUBLICATION: 2016

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR:** 5.116

200- AUTHORS (in order of authorship): M. I. Irshad, N. M. Mohamed, M. Z. Abdullah, M. S. M. Saheed, A. Mumtaz, M. Yasar, A. Yar, M. A. Zeeshan, J. Sort

TITLE: Influence of the Electrodeposition Potential on the Crystallographic Structure and Effective Magnetic Easy Axis of Cobalt Nanowires

JOURNAL/BOOK TITLE: RSC Advances 16, 14266–14272 **KEY:** A

DATE OF PUBLICATION: 2016

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR:** 2.936

201- AUTHORS (in order of authorship): I. Golvano-Escobal, S. Suriñach, M. D. Baró, S. Pané, J. Sort, E. Pellicer

TITLE: Electrodeposition of sizeable and compositionally tunable rhodium-iron nanoparticles and their activity toward hydrogen evolution reaction

JOURNAL/BOOK TITLE: Electrochimica Acta 194, 263–275 **KEY:** A

DATE OF PUBLICATION: 2016

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR:** 5.116

202*- AUTHORS (in order of authorship): S. Agramunt-Puig, N. Del-Valle, E. Pellicer, J. Zhang, J. Nogués, C. Navau, A. Sanchez, J. Sort

TITLE: Modeling the collective magnetic behavior of highly-packed arrays of multi-segmented nanowires

JOURNAL/BOOK TITLE: New Journal of Physics 18, 013026 **KEY:** A

DATE OF PUBLICATION: 2016

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR:** 3.579

203*- AUTHORS (in order of authorship): R. Pol, M. Guerrero, E. García-Lecina, A. Altube, E. Rossinyol, S. Garroni, M. D. Baró, J. Pons, J. Sort, E. Pellicer
TITLE: Ni-, Pt- and (Ni/Pt)-doped TiO₂ nanophotocatalysts: A smart approach for sustainable degradation of Rhodamine B dye
JOURNAL/BOOK TITLE: Applied Catalysis B: Environmental, 181, 270–278 **KEY:** A
DATE OF PUBLICATION: 2016
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR:** 11.698

204*- AUTHORS (in order of authorship): M. A. Zeeshan, D. Esqué-de los Ojos, P. Castro-Hartmann, M. Guerrero, J. Nogués, S. Suriñach, M. D. Baró, B. J. Nelson, S. Pané, E. Pellicer, J. Sort
TITLE: Electrochemically Synthesized Amorphous and Crystalline Nanowires: Dissimilar Nano-mechanical Behavior in Comparison to Homologous Flat Films (also Front Cover of the issue)
JOURNAL/BOOK TITLE: Nanoscale, 8, 1344-1351 **KEY:** A
DATE OF PUBLICATION: 2016
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR:** 7.233

205*- AUTHORS (in order of authorship): E. Pellicer, J. Sort
TITLE: Frontiers in mesoporous nanomaterials
JOURNAL/BOOK TITLE: Nanomaterials, 6, 15 **KEY:** A
DATE OF PUBLICATION: 2016
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☐ NO ☒ **IMPACT FACTOR:** 3.504

206*- AUTHORS (in order of authorship): J. Zhang, S. Agramunt-Puig, N. Del-Valle, C. Navau, M. D. Baró, S. Estradé, F. Peiró, S. Pané, B. J. Nelson, A. Sanchez, J. Nogués, E. Pellicer, J. Sort
TITLE: Tailoring Staircase-like Hysteresis Loops in Electrodeposited Tri-segmented Magnetic Nanowires: a Strategy towards Minimization of Interwire Interactions
JOURNAL/BOOK TITLE: ACS Applied Materials & Interfaces 8, 4109–4117 **KEY:** A
DATE OF PUBLICATION: 2016
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR:** 8.097

207*- AUTHORS (in order of authorship): H. Zhang, Y. Feng, D. Nieto, E. García-Lecina, C. Mcdaniel, J. Díaz-Marcos, M. T. Flores-Arias, G. M. O'connord, M. D. Baró, E. Pellicer, J. Sort
TITLE: Sub-micron Magnetic Patterns and Local Variations of Adhesion Force Induced in Non-Ferromagnetic Amorphous Steel by Femtosecond Pulsed Laser Irradiation
JOURNAL/BOOK TITLE: Applied Surface Science 371, 399-406 **KEY:** A
DATE OF PUBLICATION: 2016
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR:** 4.439

208- AUTHORS (in order of authorship): J. Parmar, D. Vilela, E. Pellicer, D. Esqué-de los Ojos, J. Sort, S. Sánchez
TITLE: Reusable and long-lasting active micro-cleaners for heterogeneous water remediation
JOURNAL/BOOK TITLE: Advanced Functional Materials 26, 4152–4161 **KEY:** A
DATE OF PUBLICATION: 2016
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR:** 13.325

209- AUTHORS (in order of authorship): M. Guerrero, J. Zhang, A. Altube, E. García-Lecina, M. Roldan, M. D. Baró, E. Pellicer, J. Sort

TITLE: Room-temperature synthesis of three-dimensional porous ZnO@CuNi hybrid magnetic magnetic layers with photoluminescent and photocatalytic properties

JOURNAL/BOOK TITLE: Science and Technology of Advanced Materials 17, 177-187
KEY: A

DATE OF PUBLICATION: 2016

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:** 4.787

210- AUTHORS (in order of authorship): J. Fan, J. Zhang, P. Solsona, S. Suriñach, M. D. Baró, J. Sort, E. Pellicer

TITLE: Nanocasting synthesis of mesoporous SnO₂ with a tunable ferromagnetic response through Ni loading

JOURNAL/BOOK TITLE: RSC Advances 6, 104799-104807 **KEY:** A

DATE OF PUBLICATION: 2016

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:** 2.936

211- AUTHORS (in order of authorship): N. Shamsudhin, Y. Tao, J. Sort, B. Jang, C. L. Degen, B. J. Nelson, S. Pané

TITLE: Magnetometry of Individual Polycrystalline Ferromagnetic Nanowires

JOURNAL/BOOK TITLE: Small 12, 6363-6369 **KEY:** A

DATE OF PUBLICATION: 2016

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:** 9.598

212- AUTHORS (in order of authorship): S. de Pedro, X. Muñoz-Berbel, R. Rodríguez-Rodríguez, J. Sort, J. A. Plaza, J. Brugger, A. Llobera, V. J. Cadarso

TITLE: Characterization of Ferrofluid-Based Stimuli-Responsive Elastomers

JOURNAL/BOOK TITLE: Frontiers in Mechanical Engineering 2, 12 **KEY:** A

DATE OF PUBLICATION: 2016

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☐ NO X **IMPACT FACTOR:** --

213- AUTHORS (in order of authorship): D. Esqué-de los Ojos, J. Zhang, J. Fornell, E. Pellicer, J. Sort

TITLE: Nanomechanical behaviour of open-cell nanoporous metals: Homogeneous versus thickness-dependent porosity

JOURNAL/BOOK TITLE: Mechanics of Materials 100, 167-174 **KEY:** A

DATE OF PUBLICATION: 2016

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:** 2.697

214- AUTHORS (in order of authorship): S. Sevim, S. Ozer, L. Feng, J. Wurzel, A. Fakhraee, N. Shamsudhin, B. Jang, C. Alcantara, O. Ergeneman, E. Pellicer, J. Sort, T. Lüthmann, S. Pané, B. J. Nelson, H. Torun

TITLE: Dually actuated atomic force microscope with miniaturized magnetic bead-actuators for single-molecule force measurements

JOURNAL/BOOK TITLE: Nanoscale Horizons 1, 488-495 **KEY:** A

DATE OF PUBLICATION: 2016

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☐ NO ☒ **IMPACT FACTOR:** 9.391

215*- AUTHORS (in order of authorship): Y. P. Feng, A. Blanquer, J. Fornell, H. Zhang, P. Solsona, M. D. Baró, S. Suriñach, E. Ibáñez, E. García-Lecina, X. Wei, R. Li, L. Barrios, E. Pellicer, C. Nogués, J. Sort

TITLE: Novel Fe–Mn–Si–Pd alloys: insights into mechanical, magnetic, corrosion resistance and biocompatibility performances

JOURNAL/BOOK TITLE: Journal of Materials Chemistry B 4, 6402-6412 **KEY:** A

DATE OF PUBLICATION: 2016

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR:** 4.776

216- AUTHORS (in order of authorship): G. Salazar-Alvarez, J. Geshev, S. Agramunt-Puig, C. Navau, A. Sanchez, J. Sort, J. Nogués

TITLE: Tunable high-field magnetization in strongly exchange-coupled freestanding Co/CoO core/shell coaxial nanowires

JOURNAL/BOOK TITLE: ACS Applied Materials & Interfaces 8, 22477-22483 **KEY:** A

DATE OF PUBLICATION: 2016

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR:** 8.097

217*- AUTHORS (in order of authorship): J. Zhang, M. Coll, T. Puig, E. Pellicer, J. Sort

TITLE: Conformal oxide nanocoatings on electrodeposited 3D porous Ni films by atomic layer deposition (also Back Cover of the Issue)

JOURNAL/BOOK TITLE: Journal of Materials Chemistry C 4, 8655-8662 **KEY:** A

DATE OF PUBLICATION: 2016

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR:** 5.976

218*- AUTHORS (in order of authorship): J. Zhang, S. Pané, J. Sort, E. Pellicer

TITLE: Toward Robust Segmented Nanowires: Understanding the Impact of Crystallographic Texture on the Quality of Segment Interfaces in Magnetic Metallic Nanowires

JOURNAL/BOOK TITLE: Advanced Materials Interfaces 3 (2016) 1600336 **KEY:** A

DATE OF PUBLICATION: 2016

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☐ NO ☒ **IMPACT FACTOR:** 8.097

219- AUTHORS (in order of authorship): C. E. Moyano-Camero, J. M. Trigo-Rodríguez, E. Pellicer, J. Llorca, M. Martínez-Jiménez, J. Sort

TITLE: Uv-Nir Spectra and Nanoindentation of Chelyabinsk to Infer the Mechanical Properties of Hazardous Asteroids

JOURNAL/BOOK TITLE: Meteoritics & Planetary Science 51, A474-A474 **KEY:** A

DATE OF PUBLICATION: 2016

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR:** 2.949

220*- AUTHORS (in order of authorship): I. Golvano-Escobal, J. C. Gonzalez-Rosillo, N. Domingo, X. Illa, J. F. López-Barberá, J. Fornell, P. Solsona, L. Aballe, M. Foerster, S. Suriñach, M. D. Baró, T. Puig, S. Pané, J. Nogués, E. Pellicer, J. Sort

TITLE: Spontaneous formation of spiral-like patterns with distinct periodic physical properties by confined electrodeposition of Co-In disks

JOURNAL/BOOK TITLE: Scientific Reports 6 (2016) 30398

KEY: A

DATE OF PUBLICATION: 2016

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR:** 4.122

221- AUTHORS (in order of authorship): A. Calleja, J. Sort, S. Ricart, X. Granados, X. Palmer, V. R. Vlad, T. Puig, X. Obradors

TITLE: Composite films combining electrospun fiber network and epitaxial oxide by chemical solution deposition

JOURNAL/BOOK TITLE: Journal of Sol-Gel Science and Technology 80, 277-284 (including Front Cover of the Issue) **KEY:** A

DATE OF PUBLICATION: 2016

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☐ NO ☒ **IMPACT FACTOR:** 1.745

222- AUTHORS (in order of authorship): B. Özkale, F. Mushtaq, J. Fornell, G. Chatzipirpiridis, L. H. J. Martin, J. Sort, C. M. Müller, E. Pellicer, B. J. Nelson, S. Pané

TITLE: Single step electrosynthesis of NiMnGa alloys

JOURNAL/BOOK TITLE: Electrochimica Acta 204 (2016) 199-205

KEY: A

DATE OF PUBLICATION: 2016

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR:** 5.116

223- AUTHORS (in order of authorship): L. Yedra, A. Eljarrat, R. Arenal, L. López-Conesa, E. Pellicer, A. Lopez-Ortega, M. Estrader, J. Sort, M. D. Baró, S. Estradé, F. Peiró

TITLE: Electron Energy-Loss Spectroscopic Tomography of $\text{Fe}_x\text{Co}_{(3-x)}\text{O}_4$ Impregnated Co_3O_4 Mesoporous Particles: Unraveling the Chemical Information in Three Dimensions

JOURNAL/BOOK TITLE: Analyst 141, 4968-4972

KEY: A

DATE OF PUBLICATION: 2016

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR:** 3.864

224- AUTHORS (in order of authorship): A. Blanquer, A. Hynowska, C. Nogués, E. Ibáñez, J. Sort, M. D. Baró, B. Özkale, S. Pané, E. Pellicer, L. Barrios

TITLE: Effect of Surface Modifications of $\text{Ti}_{40}\text{Zr}_{10}\text{Cu}_{38}\text{Pd}_{12}$ Bulk Metallic Glass and Ti-6Al-4V Alloy on Human Osteoblasts In Vitro Biocompatibility

JOURNAL/BOOK TITLE: PloS one 11, e0156644

KEY: A

DATE OF PUBLICATION: 2016

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR:** 2.766

225- AUTHORS (in order of authorship): A. Serrà, X. Alcobe, J. Sort, J. Nogués, E. Valles

TITLE: Highly efficient electrochemical and chemical hydrogenation of 4-nitrophenol using recyclable narrow mesoporous magnetic CoPt nanowires

JOURNAL/BOOK TITLE: Journal of Materials Chemistry A 4, 15676-15687

KEY: A

DATE OF PUBLICATION: 2016

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR:** 9.931

226*- AUTHORS (in order of authorship): D. Esqué-de los Ojos, E. Pellicer, J. Sort
TITLE: The Influence of Pore Size on the Indentation Behavior of Metallic Nanoporous Materials: A Molecular Dynamics Study
JOURNAL/BOOK TITLE: Materials 9 (2016) 355 **KEY:** A
DATE OF PUBLICATION: 2016
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:** 2.467

227- AUTHORS (in order of authorship): J. Pokki, O. Ergeneman, G. Chatzipirpiridis, T. Lühmann, J. Sort, E. Pellicer, S. A. Pot, B. M. Spiess, S. Pané, B. J. Nelson
TITLE: Protective coatings for intraocular wirelessly controlled microrobots for implantation: corrosion, cell culture, and in vivo animal tests
JOURNAL/BOOK TITLE: Journal of Biomedical Materials Research Part B 105, 836-845.
KEY: A
DATE OF PUBLICATION: 2017
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:** 3.373

228*- AUTHORS (in order of authorship): I. Golvano-Escobal, J. de Dios Sirvent, M. Ferran-Marqués, S. Suriñach, M.D. Baró, S. Pané, J. Sort, E. Pellicer
TITLE: Cross-sectioning spatio-temporal Co-In electrodeposits: disclosing a magnetically-patterned nanolaminated structure
JOURNAL/BOOK TITLE: Materials and Design, 114, 202-207 **KEY:** A
DATE OF PUBLICATION: 2017
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:** 4.525

229- AUTHORS (in order of authorship): V.M. Villapún, H. Zhang, C. Howden, L. Cheung Chow, F. Esat, P. Pérez, J. Sort, S. Bull, J. Stach, S. González
TITLE: Antimicrobial and wear performance of Cu-Zr-Al metallic glass composites
JOURNAL/BOOK TITLE: Materials and Design, 115, 93–102 **KEY:** A
DATE OF PUBLICATION: 2017
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:** 4.525

230- AUTHORS (in order of authorship): D. Bilican, J. Fornell, J. Sort, E. Pellicer E
TITLE: Electrochemical synthesis of bismuth particles: tuning particle shape through substrate type within a narrow potential window
JOURNAL/BOOK TITLE: Materials 10, 43 **KEY:** A
DATE OF PUBLICATION: 2017
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:** 2.467

231- AUTHORS (in order of authorship): N. Imaz, J.A. Díez, E. Pellicer, J. Sort, H. Grande, E. García-Lecina
TITLE: Thermal treatment effect on the mechanical, tribological and corrosion properties of Ni-W alloy obtained by direct and pulse plating electrodeposition
JOURNAL/BOOK TITLE: T. I. Met. Finish. 95, 31-38 **KEY:** A
DATE OF PUBLICATION: 2017

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☐ NO ☒ **IMPACT FACTOR:** 0.59

232- AUTHORS (in order of authorship): C.E. Moyano-Camero, E. Pellicer, J.M. Trigo-Rodríguez, I.P. Williams, J. Blum, P. Michel, M. Küppers, M. Martínez-Jiménez, I. Lloro, J. Sort
TITLE: Nanoindenting the Chelyabinsk meteorite to learn about impact deflection effects in asteroids
JOURNAL/BOOK TITLE: The Astrophysical Journal 835, 157 **KEY:** A
DATE OF PUBLICATION: 2017
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR:** 5.551

233- AUTHORS (in order of authorship): C.E. Moyano-Camero, J.M. Trigo-Rodríguez, E. Pellicer, M. Martínez-Jiménez, J. Llorca, N. Mestres, J. Sort
TITLE: Chelyabinsk meteorite as a proxy for studying the properties of Potentially Hazardous Asteroids and impact deflection strategies, in "Assessment and Mitigation of Asteroid Impact Hazards
JOURNAL/BOOK TITLE: Astrophysics and Space Science Proceedings (Eds. Trigo-Rodríguez JM, Gritsevich M, Palme H), Springer International Publishing AG. (ISBN: 3319461788), vol. 47, pp. 219-241. **KEY:** BC
DATE OF PUBLICATION: 2017
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☐ NO ☒

234- AUTHORS (in order of authorship): M. Farhadi-Khouzani, C. Schütz, G.M. Durak, J. Fornell, J. Sort, G. Salazar-Alvarez, L. Bergström, D. Gebauer D
TITLE: A CaCO₃/nanocellulose-based bioinspired nacre-like material
JOURNAL/BOOK TITLE: Journal of Materials Chemistry A 5, 16128-16133 **KEY:** A
DATE OF PUBLICATION: 2017
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR:** 9.931

235- AUTHORS (in order of authorship): M. Y. Tsang, S. Rodríguez-Hermida, K. C. Stylianou, F. Tan, D. Negi, F. Teixidor, C. Viñas, D. Choquesillo-Lazarte, C. Verdugo-Escamilla, M. Guerrero, J. Sort, J. Juanhuix, I. Imaz, D. MasPOCH, J. Giner Planas
TITLE: Carborane bis-pyridylalcohols as linkers for Coordination Polymers: Synthesis, Crystal Structures and Guest-Framework dependent Mechanical Properties
JOURNAL/BOOK TITLE: Crystal Growth & Design, 17, 846–857 **KEY:** A
DATE OF PUBLICATION: 2017
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR:** 3.972

236*- AUTHORS (in order of authorship): E. Dislaki, J. Sort, E. Pellicer
TITLE: Parametric aqueous electrodeposition study and characterization of Fe–Cu films
JOURNAL/BOOK TITLE: Electrochimica Acta 231, 739–748 **KEY:** A
DATE OF PUBLICATION: 2017
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR:** 5.116

237*- AUTHORS (in order of authorship): U. Klement, E. Pellicer, J. Sort
TITLE: Mid-term meeting of SELECTA: an European Training Network on smart electrodeposited alloys for environmentally sustainable applications

JOURNAL/BOOK TITLE: T. I. Met. Finish. 95, 124-125. **KEY:** A
DATE OF PUBLICATION: 2017
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☐ NO X **IMPACT FACTOR:** 0.59

238*- AUTHORS (in order of authorship): H. Zhang, Y.P. Feng, Y. Cheng, M.D. Baró, A. Altube, E. García-Lecina, F. Alcaide, E. Pellicer, T. Zhang, J. Sort
TITLE: Nanoporous Fe-based alloy prepared by selective dissolution: an effective Fenton catalyst for water remediation
JOURNAL/BOOK TITLE: ACS Omega, 2, 653–662 **KEY:** A
DATE OF PUBLICATION: 2017
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☐ NO X **IMPACT FACTOR:** --

239- AUTHORS (in order of authorship): E.I. Chávez, M.D. Baró, E. Rossinyol, U. Morales-Ortiz, J. Sort, E. Brillas, E. Pellicer
TITLE: Comparative electrochemical oxidation of methyl orange azo dye using Ti/Ir-Pb, Ti/Ir-Sn, Ti/Ru-Pb, Ti/Pt-Pd and Ti/RuO₂
JOURNAL/BOOK TITLE: Electrochimica Acta, 244, 199-208 **KEY:** A
DATE OF PUBLICATION: 2017
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:** 5.516

240- AUTHORS (in order of authorship): A. Quintana, A. Altube, E. García-Lecina, S. Suriñach, M.D. Baró, J. Sort, E. Pellicer, M. Guerrero
TITLE: A facile co-precipitation synthesis of heterostructured ZrO₂|ZnO nanoparticles as efficient photocatalysts for wastewater treatment
JOURNAL/BOOK TITLE: Journal of Materials Science 52, 13779-13789 **KEY:** A
DATE OF PUBLICATION: 2017
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☐ NO X **IMPACT FACTOR:** 2.993

241*- AUTHORS (in order of authorship): D. Bilican, E. Menéndez, J. Zhang, P. Solsona, J. Fornell, E. Pellicer, J. Sort
TITLE: Ferromagnetic-like behaviour in bismuth ferrite films prepared by electrodeposition and subsequent heat treatment
JOURNAL/BOOK TITLE: RSC Advances 7, 32133-32138 **KEY:** A
DATE OF PUBLICATION: 2017
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:** 2.936

242- AUTHORS (in order of authorship): S. Sevim, S. Özer, G. Jones, J. Wurzel, L. Feng, A. Fakhraee, N. Shamsudhin, O. Ergeneman, E. Pellicer, J. Sort, S. Pané, B.J. Nelson, H. Torun, T. Lühmann
TITLE: Nanomechanics on FGF-2 and heparin reveal slip bond characteristics with pH dependency
JOURNAL/BOOK TITLE: ACS Biomaterials Science & Engineering 3, 1000-1007 **KEY:** A
DATE OF PUBLICATION: 2017
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:** 4.432

243*- AUTHORS (in order of authorship): J. Fan, E. Menéndez, M. Guerrero, A. Quintana, E. Weschke, E. Pellicer, J. Sort

TITLE: Unraveling the origin of magnetism in mesoporous Cu-doped SnO₂ magnetic semiconductor

JOURNAL/BOOK TITLE: Nanomaterials 7, 348

KEY: A

DATE OF PUBLICATION: 2017

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:** 3.504

244*- AUTHORS (in order of authorship): A. Quintana, A. Gómez, M.D. Baró, S. Suriñach, E. Pellicer, J. Sort

TITLE: Self-templating Faceted and Spongy Single-Crystal ZnO Nanorods: Resistive Switching and Enhanced Piezoresponse

JOURNAL/BOOK TITLE: Materials & Design 133, 54-61

KEY: A

DATE OF PUBLICATION: 2017

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:** 4.525

245- AUTHORS (in order of authorship): A. Serrà, S. Grau, C. Gimbert-Suriñach, J. Sort, J. Nogués, E. Vallés

TITLE: Magnetically-actuated mesoporous nanowires for enhanced heterogeneous catalysis

JOURNAL/BOOK TITLE: Applied Catalysis B: Environmental, 217, 81-91

KEY: A

DATE OF PUBLICATION: 2017

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:** 11.698

246*- AUTHORS (in order of authorship): K.C. Chan, J. Sort

TITLE: Metallic Glasses

JOURNAL/BOOK TITLE: Special Issue Book Metals - MDPI (ISBN 978-3-03842-507-6)

KEY: B

DATE OF PUBLICATION: 2017

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☐ NO X

247*- AUTHORS (in order of authorship): J. Fornell, J. Soriano, M. Guerrero, J. de Dios Sirvent, M. Ferran-Marqués, L. Barrios, M.D. Baró, S. Suriñach, C. Nogués, J. Sort, E. Pellicer

TITLE: Biodegradable FeMnSi Sputter-Coated Macroporous Polypropylene Membranes for the Sustained Release of Drugs

JOURNAL/BOOK TITLE: Nanomaterials 7, 155

KEY: A

DATE OF PUBLICATION: 2017

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:** 3.504

248*- AUTHORS (in order of authorship): J. Fan, M. Guerrero, A. Carretero-Genevrié, M.D. Baró, S. Suriñach, E. Pellicer, J. Sort

TITLE: Evaporation-induced self-assembly synthesis of Ni-doped mesoporous SnO₂ thin films with tunable room temperature magnetic properties

JOURNAL/BOOK TITLE: Journal of Materials Chemistry C 5, 5517-5527

KEY: A

DATE OF PUBLICATION: 2017

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:** 5.976

249*- AUTHORS (in order of authorship): E. Pellicer, D. Nikolic, J. Sort, M.D. Baró, F. Zivic, N. Grujovic, R. Grujic, S. Pelemis
TITLE: Advances in Application of Industrial Biomaterials, ISBN 978-3-319-62766-3
JOURNAL/BOOK TITLE: Springer - Nature **KEY:** B
DATE OF PUBLICATION: 2017
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☐ NO X

250- AUTHORS (in order of authorship): I. Fina, A. Quintana, J. Padilla-Pantoja, X. Marti, F. Macia, F. Sanchez, M. Foerster, L. Aballe, J. Fontcuberta, J. Sort
TITLE: Electric-Field-Adjustable Time-Dependent Magnetoelectric Response in Martensitic FeRh Alloy
JOURNAL/BOOK TITLE: ACS Applied Materials & Interfaces 9, 15577-15582
KEY: A
DATE OF PUBLICATION: 2017
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:** 8.097

251*- AUTHORS (in order of authorship): J. Sort
TITLE: Nanocrystalline and nanostructured metals and alloys (Editorial)
JOURNAL/BOOK TITLE: Research and Reports on Metals 1, 1 **KEY:** A
DATE OF PUBLICATION: 2017
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☐ NO X **IMPACT FACTOR:** --

252*- AUTHORS (in order of authorship): D. Esqué de los Ojos, J. Sort
TITLE: 'Nanoindentation modelling: From finite element to atomistic simulations' (Chapter 16, pp. 369-392)
JOURNAL/BOOK TITLE: Applied Nanoindentation in Advanced Materials (ISBN: 978-1-119-08449-5), John Wiley & Sons, Inc. **KEY:** BC
DATE OF PUBLICATION: 2017
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☐ NO X

253- AUTHORS (in order of authorship): J. Fornell, Y.P. Feng, E. Pellicer, S. Suriñach, M.D. Baró, J. Sort
TITLE: Mechanical behaviour of brushite and hydroxyapatite coatings electrodeposited on newly developed FeMnSiPd alloy
JOURNAL/BOOK TITLE: Journal of Alloys and Compounds 729, 231-239 **KEY:** A
DATE OF PUBLICATION: 2017
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X ☐ NO **IMPACT FACTOR:** 3.779

254- AUTHORS (in order of authorship): B. Jang, A. Hong, H.E. Kang, C. Alcantara, S. Charreyron, F. Mushtaq, E. Pellicer, R. Buchel, J. Sort, S.S. Lee, B.J. Nelson, S. Pane
TITLE: Multiwavelength Light-Responsive Au/B-TiO₂ Janus Micromotors
JOURNAL/BOOK TITLE: ACS Nano 11, 6146-6154. **KEY:** A
DATE OF PUBLICATION: 2017

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:** 13.709

255*- AUTHORS (in order of authorship): A. Quintana, J. Zhang, E. I. Chávez, E. Menéndez, R. Cuadrado, R. Robles, M.D. Baró, M. Guerrero, S. Pané, B.J. Nelson, C.M. Müller, P. Ordejón, J. Nogués, E. Pellicer, J. Sort

TITLE: Voltage-induced coercivity reduction in nanoporous alloy films: a boost towards energy-efficient magnetic actuation

JOURNAL/BOOK TITLE: Advanced Functional Materials, 27, 1701904

KEY: A

DATE OF PUBLICATION: 2017

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:** 13.325

256*- AUTHORS (in order of authorship): Y.P. Feng, N. Gaztelumendi, J. Fornell, H.Y. Zhang, P. Solsona, M.D. Baró, S. Suriñach, E. Ibáñez, L. Barrios, E. Pellicer, C. Nogués, J. Sort

TITLE: Mechanical properties, corrosion performance and cell viability studies on newly developed porous Fe-Mn-Si-Pd alloys

JOURNAL/BOOK TITLE: Journal of Alloys and Compounds, 724, 1046 – 1056

KEY: A

DATE OF PUBLICATION: 2017

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:** 3.779

257- AUTHORS (in order of authorship): J.D. Clarkson, I. Fina, Z.Q. Liu, Y. Lee, J. Kim, C. Frontera, K. Cordero, S. Wisotzki, F. Sanchez, J. Sort, S.L. Hsu, C. Ko, L. Aballe, M. Foerster, J. Wu, H.M. Christen, J.T. Heron, D.G. Schlom, S. Salahuddin, N. Kioussis, J. Fontcuberta, X. Marti, R. Ramesh

TITLE: Hidden Magnetic States Emergent Under Electric Field, In A Room Temperature Composite Magnetoelectric Multiferroic

JOURNAL/BOOK TITLE: Scientific Reports 7, 15460

KEY: A

DATE OF PUBLICATION: 2017

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:** 4.122

258- AUTHORS (in order of authorship): K. Cordero-Edwards, N. Domingo, A. Abdollahi, J. Sort, G. Catalan

TITLE: Ferroelectrics as smart mechanical materials

JOURNAL/BOOK TITLE: Advanced Materials 29, 1702210

KEY: A

DATE OF PUBLICATION: 2017

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:** 21.950

259- AUTHORS (in order of authorship): M. Vilardell, J. Fornell, J. Sort, R. Vlad, J.C. Fernández, J. Puig, A. Usoskin, A. Palau, T. Puig, X. Obradors, A. Calleja

TITLE: Inkjet-printed chemical solution Y2O3 layers for planarization of technical substrates

JOURNAL/BOOK TITLE: Coatings 7, 227

KEY: A

DATE OF PUBLICATION: 2017

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☐ NO X **IMPACT FACTOR:** 2.350

260*- AUTHORS (in order of authorship): E. I. Chávez E, M. D. Baró, E. Pellicer, J. Sort
TITLE: Micelle-assisted electrodeposition of highly mesoporous Fe-Pt nodular films with soft magnetic and electrocatalytic properties
JOURNAL/BOOK TITLE: Nanoscale 9 (2017) 18081-18093. **KEY:** A
DATE OF PUBLICATION: 2017
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:** 7.233

261- AUTHORS (in order of authorship): A. Blanquer, J. Musilkova, L. Barrios, E. Ibáñez, M. Vandrovicova, E. Pellicer, J. Sort, L. Bacakova, C. Nogués
TITLE: Cytocompatibility assessment of Ti-Zr-Pd-Si-(Nb) alloys with low Young's modulus, increased hardness and enhanced osteoblast differentiation for biomedical applications
JOURNAL/BOOK TITLE: Journal of Biomedical Materials Research: Part B - Applied Biomaterials 106, 834-842 **KEY:** A
DATE OF PUBLICATION: 2018
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:** 3.368

262- AUTHORS (in order of authorship): A. Nicolenco, N. Tsyntsaru, J. Fornell, E. Pellicer, J. Reklaitis, D. Baltrunas, H. Cesiulis, J. Sort
TITLE: Mapping of magnetic and mechanical properties of Fe-W alloys electrodeposited from Fe(III)-based glycolate-citrate bath
JOURNAL/BOOK TITLE: Materials & Design 139, 429-438 **KEY:** A
DATE OF PUBLICATION: 2018
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:** 7.91

263*- AUTHORS (in order of authorship): E. Isarain-Chávez, M. D. Baró, C. Alcantara, S. Pané, J. Sort, E. Pellicer
TITLE: Micelle-assisted electrodeposition of mesoporous Fe-Pt smooth thin films onto various substrates and their electrocatalytic activity towards hydrogen evolution reaction
JOURNAL/BOOK TITLE: ChemSusChem 11, 367-375 **KEY:** A
DATE OF PUBLICATION: 2018
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:** 9.1

264*- AUTHORS (in order of authorship): D. Brabazon, E. Pellicer, F. Zivic, J. Sort, M. D. Baró, N. Grujovic, K. L. Choy
TITLE: Commercialization of Nanotechnologies - A Case Study Approach (Editors)
JOURNAL/BOOK TITLE: Commercialization of Nanotechnologies - A Case Study Approach, Springer International Publishing (978-3-319-56978-9). **KEY:** B
DATE OF PUBLICATION: 2018
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☐ NO X **IMPACT FACTOR:** --

265*- AUTHORS (in order of authorship): J. Zhang, E. Pellicer, J. Sort
TITLE: Towards voltage-driven nano-spintronics: a review
JOURNAL/BOOK TITLE: Commercialization of Nanotechnologies - A Case Study Approach, Springer International Publishing (978-3-319-56978-9), p. 99-115 **KEY:** BC
DATE OF PUBLICATION: 2018

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☐ NO ☒ **IMPACT FACTOR:** --

266- AUTHORS (in order of authorship): F. Zivic, N. Grujovic, E. Pellicer, J. Sort, S. Mitrovic, G. Adamovic, M. Vulovic

TITLE: Biodegradable metals as biomaterials for clinical practice: iron-based materials

JOURNAL/BOOK TITLE: Biomaterials in clinical practice – advances in clinical research and medical devices; Springer (Online ISBN 978-3-319-68025-5), pp. 225-280. **KEY:** BC

DATE OF PUBLICATION: 2018

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☐ NO ☒ **IMPACT FACTOR:** --

267- AUTHORS (in order of authorship): E. Pellicer, M. Lorenzetti, J. Fornell, M. D. Baró, S. Novak, J. Sort

TITLE: Progress beyond the state-of-the-art in the field of metallic materials for bioimplant applications

JOURNAL/BOOK TITLE: Biomaterials in Clinical Practice - Advances in Clinical Research and Medical Devices (Ed. F. Zivic), Springer (ISBN 978-3-319-68024-8), pp 25-46 **KEY:** BC

DATE OF PUBLICATION: 2018

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☐ NO ☒ **IMPACT FACTOR:** --

268- AUTHORS (in order of authorship): E. Dislaki, J. Pokki, S. Pané, J. Sort, E. Pellicer

TITLE: Fabrication of sustainable hydrophobic and oleophilic pseudo-ordered macroporous Fe–Cu films with tunable composition and pore size via electrodeposition through colloidal templates

JOURNAL/BOOK TITLE: Applied Materials Today 12, 1-8 **KEY:** A

DATE OF PUBLICATION: 2018

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR:** 10.04

269*- AUTHORS (in order of authorship): A. Quintana, E. Menéndez, E. Isaraín-Chavez, J. Fornell, P. Solsona, F. Fauth, M. D. Baró, J. Nogués, E. Pellicer, J. Sort

TITLE: Tunable magnetism in nanoporous CuNi alloys by reversible voltage-driven element-selective redox processes

JOURNAL/BOOK TITLE: Small 14, 1704396 **KEY:** A

DATE OF PUBLICATION: 2018

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR:** 15.1

270- AUTHORS (in order of authorship): G. Fernández, J. Sort, R. Pleixats

TITLE: Nickel Nanoparticles Stabilized by Trisimidazolium Salts: Synthesis, Characterization and Application as Recyclable Catalysts for the Reduction of Nitroarenes

JOURNAL/BOOK TITLE: ChemistrySelect 3, 8597-8603 **KEY:** A

DATE OF PUBLICATION: 2018

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR:** 2.307

271*- AUTHORS (in order of authorship): Y. Feng, J. Fornell, H. Zhang, P. Solsona, M. D. Baró, S. Suriñach, E. Pellicer, J. Sort

TITLE: Synthesis of α -Fe₂O₃ and Fe-Mn oxide foams with highly tunable magnetic properties by the replication method from polyurethane templates

JOURNAL/BOOK TITLE: Materials 11, 280

KEY: A

DATE OF PUBLICATION: 2018

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR:** 3.6

272- AUTHORS (in order of authorship): S. Danilova, J.E. Graves, E. Pellicer, J. Sort, A.J. Cobley
TITLE: Selective Metalization of Non-Conductive Materials By Patterning of Catalytic Particles and the Application of a Gradient Magnetic Field

JOURNAL/BOOK TITLE: ECS Transactions 85, 69-78 **KEY:** A

DATE OF PUBLICATION: 2018

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☐ NO ☒ **IMPACT FACTOR:** --

273*- AUTHORS (in order of authorship): S. Robbennolt, J. Fornell, A. Quintana, H. Zhang, E. Menéndez, E. Pellicer, J. Sort

TITLE: Structural and magnetic properties of Fe_xCu_{1-x} sputtered thin films electrochemically treated to create nanoporosity for high surface area magnetic components

JOURNAL/BOOK TITLE: ACS Applied Nano Materials 1, 1675-1682

KEY: A

DATE OF PUBLICATION: 2018

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☐ NO ☒ **IMPACT FACTOR:** 6.95

274*- AUTHORS (in order of authorship): J. Zhang, A. Quintana, E. Menéndez, M. Coll, E. Pellicer, J. Sort

TITLE: Electrodeposited Ni-based magnetic mesoporous films as smart surfaces for atomic layer deposition: an 'all-chemical' deposition approach toward 3D nanoengineered composite layers

JOURNAL/BOOK TITLE: ACS Applied Materials & Interfaces 10, 14877-14885

KEY: A

DATE OF PUBLICATION: 2018

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR:** 10.3

275*- AUTHORS (in order of authorship): S. Robbennolt, A. Quintana, E. Pellicer, J. Sort

TITLE: Large magnetoelectric effects mediated by electric-field-driven nanoscale phase transformations in sputtered (nanoparticulate) and electrochemically dealloyed (nanoporous) Fe-Cu films

JOURNAL/BOOK TITLE: Nanoscale 10, 14570-14578

KEY: A

DATE OF PUBLICATION: 2018

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR:** 8.3

276- AUTHORS (in order of authorship): F. Mushtaq, X. Chen, M. Hoop, H. Torlakcik, E. Pellicer, J. Sort, C. Gattinoni, B. J. Nelson, S. Pané

TITLE: Piezoelectrically Enhanced Photocatalysis with BiFeO₃ Nanostructures for Efficient Water Remediation

JOURNAL/BOOK TITLE: iScience 4, 236-246

KEY: A

DATE OF PUBLICATION: 2018

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR:** 6.233

277- AUTHORS (in order of authorship): E. Bertero, M. Hasegawa, S. Staubli, E. Pellicer, I. K. Hermann, J. Sort, J. Michler, L. Philippe
TITLE: Electrodeposition of amorphous Fe-Cr-Ni stainless steel alloy with high corrosion resistance, low cytotoxicity and soft magnetic properties
JOURNAL/BOOK TITLE: Surface and Coatings Technology 349, 745-751 **KEY:** A
DATE OF PUBLICATION: 2018
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:** 4.158

278- AUTHORS (in order of authorship): A. Mulone, A. Nicolenco, J. Fornell, E. Pellicer, N. Tsyntsaru, H. Cesiulis, J. Sort, U. Klement
TITLE: Enhanced mechanical properties and microstructural modifications in electrodeposited Fe-W alloys through controlled heat treatments
JOURNAL/BOOK TITLE: Surface and Coatings Technology 350, 20-30 **KEY:** A
DATE OF PUBLICATION: 2018
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:** 4.158

279*- AUTHORS (in order of authorship): E. Dislaki, S. Robbenolt, M. Campoy-Quiles, J. Nogués, E. Pellicer, J. Sort
TITLE: Coercivity Modulation in Fe-Cu Pseudo-Ordered Porous Thin Films Controlled by an Applied Voltage: A Sustainable, Energy-Efficient Approach to Magnetoelectrically Driven Materials
JOURNAL/BOOK TITLE: Advanced Science 5, 1800499 **KEY:** A
DATE OF PUBLICATION: 2018
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:** 17.521

280- AUTHORS (in order of authorship): S. Zsurzsa, E. Pellicer, J. Sort, L. Péter, I. Bakonyi
TITLE: Electron microscopy characterization of electrodeposited homogeneous and multilayered nanowires in the Ni-Co-Cu system
JOURNAL/BOOK TITLE: Journal of The Electrochemical Society 165, D536-D542 **KEY:** A
DATE OF PUBLICATION: 2018
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:** 4.316

281- AUTHORS (in order of authorship): G. Chatzipirpiridis, C. de Marco, E. Pellicer, O. Ergeneman, J. Sort, B. J. Nelson, S. Pané
TITLE: Template-Assisted Electroforming of Fully Semi-Hard-Magnetic Helical Microactuators
JOURNAL/BOOK TITLE: Advanced Engineering Materials 20, 1800179 **KEY:** A
DATE OF PUBLICATION: 2018
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:** 3.862

282- AUTHORS (in order of authorship): A. Quintana, E. Menéndez, M.O. Liedke, M. Butterling, A. Wagner, V. Sireus, P. Torruella, S. Estradé, F. Peiró, J. Dendooven, C. Detavernier, P. D. Murray, D. A. Gilbert, K. Liu, E. Pellicer, J. Nogués, J. Sort
TITLE: Voltage-Controlled ON-OFF Ferromagnetism at Room Temperature in a Single Metal Oxide Film
JOURNAL/BOOK TITLE: ACS Nano 12, 10291-10300 **KEY:** A

DATE OF PUBLICATION: 2018
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:** 15.881

283*- AUTHORS (in order of authorship): C. Navarro-Senent, J. Fornell, E. Isarain-Chavez, A. Quintana, E. Menendez, M. Foerster, L. Aballe, E. Weschke, J. Nogues, E. Pellicer, J. Sort
TITLE: Large Magnetoelectric Effects in Electrodeposited Nanoporous Microdisks Driven by Effective Surface Charging and Magneto-Ionics
JOURNAL/BOOK TITLE: ACS Applied Materials & Interfaces 10, 44897-44905 **KEY:** A
DATE OF PUBLICATION: 2018
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:** 10.3

284- AUTHORS (in order of authorship): Z. Li, A. Aranda-Ramos, P. Güell-Grau, J.L. Tajada, L. Pou-Macayo, S. Lope Piedrafita, F. Pi, A. G. Roca, M. D. Baró, J. Sort, C. Nogués, J. Nogués, B. Sepúlveda
TITLE: Magnetically amplified photothermal therapies and multimodal imaging with magneto-plasmonic nanodomains
JOURNAL/BOOK TITLE: Applied Materials Today 12, 430-440 **KEY:** A
DATE OF PUBLICATION: 2018
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:** 10.04

285- AUTHORS (in order of authorship): Z. Li, A. Lopez-Ortega, A. Aranda-Ramos, J.L. Tajada, J. Sort, C. Nogués, P. Vavassori, J. Nogués, B. Sepúlveda
TITLE: Simultaneous Local Heating/Thermometry Based on Plasmonic Magnetochromic Nanoheaters
JOURNAL/BOOK TITLE: Small 14, 1800868 **KEY:** A
DATE OF PUBLICATION: 2018
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:** 15.1

286- AUTHORS (in order of authorship): I. Fina, A. Quintana, X. Martí, F. Sánchez, M. Foerster, L. Aballe, J. Sort, J. Fontcuberta
TITLE: Reversible and magnetically unassisted voltage-driven switching of magnetization in FeRh/PMN-PT
JOURNAL/BOOK TITLE: Applied Physics Letters 113, 152901 **KEY:** A
DATE OF PUBLICATION: 2018
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:** 3.971

287- AUTHORS (in order of authorship): S. Scudino, J.J. Bian, H.S. Shahabi, D. Şopu, J. Sort, J. Eckert, G. Liu
TITLE: Ductile bulk metallic glass by controlling structural heterogeneities
JOURNAL/BOOK TITLE: Scientific Reports 8, 9174 **KEY:** A
DATE OF PUBLICATION: 2018
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:** 4.99

288- AUTHORS (in order of authorship): M. Guerrero, R. Pou, L. Bayés-García, M. Font-Bardia, J. Sort, J. Pons, J. A. Ayon

TITLE: Syntheses, supramolecular architectures and photoluminescence properties of Zn (II) complexes based on 3, 5-dihydroxybenzoic and pyridine/pyrazole derived ligands

JOURNAL/BOOK TITLE: Inorganic Chemistry Communications 96, 34-38 **KEY:** A

DATE OF PUBLICATION: 2018

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:** 3.17

289- AUTHORS (in order of authorship): S. Tanbakouei, J.M. Trigo-Rodrigues, E. Pellicer, J. Sort
TITLE: Mechanical Properties of Silicate-Rich Itokawa Regolith Particles

JOURNAL/BOOK TITLE: Lunar and Planetary Science Conference 49, 2083 **KEY:** A

DATE OF PUBLICATION: 2018

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:** --

290- AUTHORS (in order of authorship): S. Pané, J. Puigmartí-Luis, C. Bergeles, X.Z. Chen, E. Pellicer, J. Sort, V. Pocepcová, A. Ferreira, B. J. Nelson

TITLE: Imaging Technologies for Biomedical Micro- and Nanoswimmers

JOURNAL/BOOK TITLE: Advanced Materials Technologies 4, 1800575 **KEY:** A

DATE OF PUBLICATION: 2019

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:** 8.86

291- AUTHORS (in order of authorship): E. Menéndez, J. Sort, L. E. S. Silva, G. Johann, T. Dias
TITLE: Unraveling the origin of training in granular Co-CoO exchange bias systems with buried antiferromagnetic constituents

JOURNAL/BOOK TITLE: Journal of Magnetism and Magnetic Materials 478, 170-174. **KEY:** A

DATE OF PUBLICATION: 2019

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:** 2.993

292- AUTHORS (in order of authorship): E. Pellicer, J. Malapeira, J. Sort

TITLE: The European Training Network SELECTA reaches its end

JOURNAL/BOOK TITLE: Transactions of the IMF 97, 3-4 **KEY:** A

DATE OF PUBLICATION: 2019

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:** 1.244

293- AUTHORS (in order of authorship): B. Jang, A. Hong, C. Alcantara, G. Chatzipiripidis, X. Martí, E. Pellicer, J. Sort, Y. Harduf, Y. Or, B.J. Nelson, S. Pané

TITLE: Programmable Locomotion Mechanisms of Nanowires with Semi-Hard Magnetic Properties Near a Surface Boundary

JOURNAL/BOOK TITLE: ACS Applied Materials & Interfaces 11, 3214-3223 **KEY:** A

DATE OF PUBLICATION: 2019

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:** 10.3

294- AUTHORS (in order of authorship): H. Cesiulis, N. Tsyntsar, E. J. Podlaha, D. Li, J. Sort

TITLE: Electrodeposition of Iron-Group Alloys into Nanostructured Oxide Membranes: Synthetic Challenges and Properties

JOURNAL/BOOK TITLE: Current Nanoscience 15, 84-99 **KEY:** A

DATE OF PUBLICATION: 2019
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☐ NO ☒ **IMPACT FACTOR:** 1.52

295*- AUTHORS (in order of authorship): C. Navarro-Senent, A. Quintana, E. Menéndez, E. Pellicer, J. Sort
TITLE: Electrolyte-gated magnetoelectric actuation: phenomenology, materials, mechanisms and prospective applications
JOURNAL/BOOK TITLE: APL Materials 7, 030701 **KEY:** A
DATE OF PUBLICATION: 2019
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR:** 5.8

296- AUTHORS (in order of authorship): E. Menéndez, V. Sireus, A. Quintana, I. Fina, B. Casals, R. Cicheler, M. Kataja, M. Stengel, G. Herranz, G. Catalán, M. D. Baró, S. Suriñach, J. Sort
TITLE: Disentangling highly asymmetric magnetoelectric effects in engineered multiferroic heterostructures
JOURNAL/BOOK TITLE: Physical Review Applied 12, 1, 014041. **KEY:** A
DATE OF PUBLICATION: 2019
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR:** 4.9

297- AUTHORS (in order of authorship): K. Cordero-Edwards, H. Kianirad, C. Canalias, J. Sort, G. Catalan
TITLE: Flexoelectric fracture-ratchet effect in ferroelectrics
JOURNAL/BOOK TITLE: Physical Review Letters 122, 135502 **KEY:** A
DATE OF PUBLICATION: 2019
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR:** 9.18

298*- AUTHORS (in order of authorship): S. Robbenolt, E. Menéndez, A. Quintana, A. Gomez, S. Auffret, V. Baltz, E. Pellicer, J. Sort
TITLE: Reversible, electric-field induced magneto-ionic control of magnetism in mesoporous cobalt ferrite films
JOURNAL/BOOK TITLE: Scientific Reports 9, 10804 **KEY:** A
DATE OF PUBLICATION: 2019
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR:** 4.99

299- AUTHORS (in order of authorship): H. Zhang, J. Fornell, Y. Feng, I. Golvano, M. D. Baró, E. Pellicer, J. Sort
TITLE: Inducing surface nanoporosity on Fe-based metallic glass matrix composites by selective dealloying
JOURNAL/BOOK TITLE: Materials Characterization 153, 46-51 **KEY:** A
DATE OF PUBLICATION: 2019
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR:** 4.36

300- AUTHORS (in order of authorship): A. Terzopoulou, M. Hoop, X. Z. Chen, A. M. Hirt, M. Charilaou, Y. Shen, F. Mushtaq, A. Pérez del Pino, C. Logofatu, L. Simonelli, A. J. deMello, C.J. Doonan, J. Sort, B. J. Nelson, S. Pané, J. Puigmartí-Luis

TITLE: Mineralization-inspired synthesis of magnetic zeolitic imidazole framework composite
JOURNAL/BOOK TITLE: Angewandte Chemie International Edition 58, 13550–13555
KEY: A
DATE OF PUBLICATION: 2019
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:** 16.8

301*- AUTHORS (in order of authorship): N. Kovalska, N. Tsyntsaru, H. Cesiulis, A. Gebert, J. Fornell, E. Pellicer, J. Sort, W. Hansal, W. Kautek
TITLE: Electrodeposition of Nanocrystalline Fe-P Coatings: Influence of Bath Temperature and Glycine Concentration on Structure, Mechanical and Corrosion Behavior
JOURNAL/BOOK TITLE: Coatings 9, 189 **KEY:** A
DATE OF PUBLICATION: 2019
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:** 2.864

302*- AUTHORS (in order of authorship): S. Robbennolt, A. Nicolenco, P. Mercier-Fernandez, S. Auffret, V. Baltz, E. Pellicer, E. Menéndez, J. Sort
TITLE: Electric Field Control of Magnetism in Iron Oxide Nanoporous Thin Films
JOURNAL/BOOK TITLE: ACS Applied Materials & Interfaces 11, 37338-37346
KEY: A
DATE OF PUBLICATION: 2019
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:** 10.3

303*- AUTHORS (in order of authorship): I. Golvano-Escobal, R. de Paz-Castanya, C. Alcantara, S. Pané, E. García-Lecina, J. Sort, E. Pellicer
TITLE: Functional macroporous iron-phosphorous films by electrodeposition on colloidal crystal templates
JOURNAL/BOOK TITLE: Electrochimica Acta 313, 211-222 **KEY:** A
DATE OF PUBLICATION: 2019
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:** 6.9

304- AUTHORS (in order of authorship): S.Tanbakouei, J. M. Trigo-Rodríguez, J. Sort, P. Michel, J. Blum, T. Nakamura, I. Williams
TITLE: Mechanical properties of particles from the surface of asteroid 25143 Itokawa
JOURNAL/BOOK TITLE: Astronomy & Astrophysics, 629, A119 **KEY:** A
DATE OF PUBLICATION: 2019
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:** 6.2

305- AUTHORS (in order of authorship): A. Nicolenco, A. Mulone, N. Imaz, N. Tsyntsaru, J. Sort, E. Pellicer, U. Klement, H. Cesiulis, E. García-Lecina
TITLE: Nanocrystalline electrodeposited Fe-W/Al₂O₃ composites: effect of alumina sub-microparticles on the mechanical, tribological and corrosion properties
JOURNAL/BOOK TITLE: Frontiers in Chemistry 7, 241 **KEY:** A
DATE OF PUBLICATION: 2019
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:** 3.994

306- AUTHORS (in order of authorship): D. Bilican, S. Kurdi, Y. Zhu, P. Solsona, E. Pellicer, Z. Barber, L. Greer, [J. Sort](#), J. Fornell

TITLE: Epitaxial versus polycrystalline shape memory Cu-Al-Ni thin films

JOURNAL/BOOK TITLE: Coatings 9, 308 **KEY:** A

DATE OF PUBLICATION: 2019

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:** 2.864

307- AUTHORS (in order of authorship): E. Bertero, C. V. Manzano, E. Pellicer, [J. Sort](#), R. M. Ulfig, S. Mischler, J. Michler, L. Philippe

TITLE: Green' Cr(III)-glycine electrolyte for the production of FeCrNi coatings: electrodeposition mechanisms and role of by-products in terms of coating composition and microstructure

JOURNAL/BOOK TITLE: RSC Advances 9, 25762 - 25775 **KEY:** A

DATE OF PUBLICATION: 2019

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:** 3.361

308- AUTHORS (in order of authorship): A. Salicio-Paz, E. Pellicer, [J. Sort](#), J. Fornell, R. Offoach, M. Lekka, E. García-Lecina

TITLE: Monolayered versus multilayered electroless NiP coatings: impact of the plating approach on the microstructure, mechanical and corrosion properties of the coatings

JOURNAL/BOOK TITLE: Surface and Coatings Technology, 368, 138-146 **KEY:** A

DATE OF PUBLICATION: 2019

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:** 4.82

309- AUTHORS (in order of authorship): K. Eiler, S. Suriñach, [J. Sort](#), E. Pellicer

TITLE: Mesoporous Ni-rich Ni-Pt Thin Films: Electrodeposition, Characterization and Performance toward Hydrogen Evolution Reaction in Acidic Media

JOURNAL/BOOK TITLE: Applied Catalysis B: Environmental, 265, 118597 **KEY:** A

DATE OF PUBLICATION: 2020

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:** 21.41

310- AUTHORS (in order of authorship): A. Mulone, A. Nicolenco, N. Imaz, J. Fornell, [J. Sort](#), U. Klement

TITLE: Effect of heat treatments on the mechanical and tribological properties of electrodeposited Fe-W/Al₂O₃ composites

JOURNAL/BOOK TITLE: Wear, 448-449, 203232 **KEY:** A

DATE OF PUBLICATION: 2020

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:** 4.92

311*- AUTHORS (in order of authorship): A. Nicolenco, A. Gómez, X.-Z. Chen, E. Menéndez, J. Fornell, S. Pané, E. Pellicer, [J. Sort](#)

TITLE: Strain gradient mediated magnetoelectricity in Fe-Ga/P (VDF-TrFE) multiferroic bilayers integrated on silicon

JOURNAL/BOOK TITLE: Applied Materials Today, 19, 100579 **KEY:** A

DATE OF PUBLICATION: 2020

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:** 10.04

312- AUTHORS (in order of authorship): M. Fernández-Barcia, B. Jang, C. C. J. Alcántara, U. Wolff, A. Gebert, M. Uhlemann, X. Chen, J. Puigmartí-Luis, J. Sort, E. Pellicer, S. Pané
TITLE: Exploiting electrolyte confinement effects for the electrosynthesis of two-engine micromachines
JOURNAL/BOOK TITLE: Applied Materials Today 19, 100629 **KEY: A**
DATE OF PUBLICATION: 2020
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:** 10.04

313*- AUTHORS (in order of authorship): C. Navarro Senent, A. Quintana, E. Isarain-Chávez, E. Weschke, P. Yu, M. Coll, E. Pellicer, E. Menéndez, J. Sort
TITLE: Enhancing magneto-ionic effects in magnetic nanostructured films via conformal deposition of nanolayers with oxygen getter/donor capabilities
JOURNAL/BOOK TITLE: ACS Appl. Materials & Interfaces 12, 14484 **KEY: A**
DATE OF PUBLICATION: 2020
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:** 10.3

314*- AUTHORS (in order of authorship): S. Robbennolt, P. Yu, A. Nicolenco, P. Mercier Fernandez, M. Coll, J. Sort
TITLE: Magneto-ionic control of magnetism in two-oxide nanocomposite thin films comprising mesoporous cobalt ferrite conformally nanocoated with HfO₂
JOURNAL/BOOK TITLE: Nanoscale 12, 5987 **KEY: A**
DATE OF PUBLICATION: 2020
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:** 8.3

315*- AUTHORS (in order of authorship): K. Eiler, J. Fornell, C. Navarro-Senent, E. Pellicer, J. Sort
TITLE: Tailoring magnetic and mechanical properties of mesoporous single-phase Ni–Pt films by electrodeposition
JOURNAL/BOOK TITLE: Nanoscale 12, 7749 **KEY: A**
DATE OF PUBLICATION: 2020
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:** 8.3

316*- AUTHORS (in order of authorship): J. de Rojas, A. Quintana, A. Lopeandía, J. Salguero, B. Muñiz, F. Ibrahim, M. Chshiev, A. Nicolenco, M. O. Liedke, M. Butterling, A. Wagner, V. Sireus, L. Abad, C. J. Jensen, K. Liu, J. Nogués, J. L. Costa-Krämer, E. Menéndez, J. Sort
TITLE: Voltage-driven motion of nitrogen ions: a new paradigm for magneto-ionics
JOURNAL/BOOK TITLE: Nature Communications 11, 5871 **KEY: A**
DATE OF PUBLICATION: 2020
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:** 17.694

317- AUTHORS (in order of authorship): K. Eiler, H. Krawiec, I. Kozina, J. Sort, E. Pellicer
TITLE: Electrochemical characterisation of multifunctional electrocatalytic mesoporous Ni–Pt thin films in alkaline and acidic media
JOURNAL/BOOK TITLE: Electrochimica Acta 359, 136952 **KEY: A**
DATE OF PUBLICATION: 2020

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:** 6.9

318- AUTHORS (in order of authorship): C. Navarro-Senent, S. Pané, J. Sort, E. Pellicer
TITLE: The order of addition and time matters: Impact of electrolyte processing on micelle-assisted electrosynthesis of mesoporous alloys
JOURNAL/BOOK TITLE: Electrochimica Acta 358, 136940 **KEY:** A
DATE OF PUBLICATION: 2020
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:** 6.9

319- AUTHORS (in order of authorship): A. Terzopoulou, X. Wang, X.Z. Chen, M. Palacios-Corella, C. Pujante, J. Herrero-Martín, X.-H. Qin, J. Sort, A.J. deMello, B.J. Nelson, J. Puigmartí-Luis, S. Pané
TITLE: Biodegradable Metal–Organic Framework-Based Microrobots (MOFBOTs)
JOURNAL/BOOK TITLE: Advanced Healthcare Materials 9, 2001031 **KEY:** A
DATE OF PUBLICATION: 2020
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:** 11.092

320- AUTHORS (in order of authorship): A. Salicio-Paz, A. Dalmau, H. Grande, A. Iriarte, J. Sort, E. Pellicer, J. Fornell, E. García-Lecina
TITLE: Impact of the multilayer approach on the tribocorrosion behaviour of nanocrystalline electroless nickel coatings obtained by different plating modes
JOURNAL/BOOK TITLE: Wear 456, 203384 **KEY:** A
DATE OF PUBLICATION: 2020
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:** 4.92

321*- AUTHORS (in order of authorship): J. de Rojas, A. Quintana, A. Lopeandía, J. Salguero, J.L. Costa-Krämer, L. Abad, M.O. Liedke, M. Butterling, A. Wagner, L. Henderick, J. Dendooven, C. Detavernier, J. Sort, E. Menéndez
TITLE: Boosting Room-Temperature Magneto-Ionics in a Non-Magnetic Oxide Semiconductor
JOURNAL/BOOK TITLE: Advanced Functional Materials 30 (36), 2003704 **KEY:** A
DATE OF PUBLICATION: 2020
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:** 19.924

322*- AUTHORS (in order of authorship): E. Dislaki, M. Cialone, F. Celegato, P. Rizzi, P. Tiberto, S. Vadiolonga, D. Többsen, J. Sort, E. Pellicer
TITLE: Unraveling the properties of sharply defined submicron scale FeCu and FePd magnetic structures fabricated by electrodeposition onto electron-beam-lithographed substrates
JOURNAL/BOOK TITLE: Materials & Design, 193, 108826 **KEY:** A
DATE OF PUBLICATION: 2020
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:** 9.4

323- AUTHORS (in order of authorship): M. Cialone, M. Fernandez-Barcia, F. Celegato, M. Coisson, G. Barrera, M. Uhlemann, A. Gebert, J. Sort, E. Pellicer, P. Rizzi, P. Tiberto
TITLE: A comparative study of the influence of the deposition technique (electrodeposition versus sputtering) on the properties of nanostructured Fe₇₀Pd₃₀ films

JOURNAL/BOOK TITLE: Science and Technology of Advanced Materials 21, 424 **KEY:** A
DATE OF PUBLICATION: 2020
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:** 7.81

324*- AUTHORS (in order of authorship): M Foerster, E Menéndez, E Coy, A Quintana, C Gómez-Olivella, D. Esqué de los Ojos, O. Vallcorba, C. Frontera, L. Aballe, J. Nogués, J. Sort, I. Fina
TITLE: Local manipulation of metamagnetism by strain nanopatterning
JOURNAL/BOOK TITLE: Materials Horizons 7, 2056 **KEY:** A
DATE OF PUBLICATION: 2020
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:** 15.7

325*- AUTHORS (in order of authorship): M. Cialone, A. Nicolenco, S. Robbenolt, E. Menéndez, G. Rius, J. Sort
TITLE: Voltage-Induced ON Switching of Magnetism in Ordered Arrays of Non-Ferrimagnetic Nanoporous Iron Oxide Microdisks
JOURNAL/BOOK TITLE: Advanced Materials Interfaces 8, 2001143 **KEY:** A
DATE OF PUBLICATION: 2021
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:** 6.3

326*- AUTHORS (in order of authorship): O. Careta, A. Salicio-Paz, E. Pellicer, E. Ibáñez, J. Fornell, E. García-Lecina, J. Sort, C. Nogués
TITLE: Electroless palladium-coated polymer scaffolds for electrical stimulation of osteoblast-like Saos-2 cells
JOURNAL/BOOK TITLE: International Journal of Molecular Sciences 22, 528 **KEY:** A
DATE OF PUBLICATION: 2021
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:** 6.2

327*- AUTHORS (in order of authorship): A. Nicolenco, C. Navarro-Senent, J. Sort
TITLE: Nanoporous Composites with Converse Magnetoelectric Effects for Energy-Efficient Applications
JOURNAL/BOOK TITLE: Encyclopedia of Material Composites (Elsevier) 2, 450. DOI: 10.1016/B978-0-12-803581-8.11870-3 **KEY:** BC
DATE OF PUBLICATION: 2021
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: N/A **IMPACT FACTOR:** N/A

328- AUTHORS (in order of authorship): A. Salicio-Paz, I. Ugarte, J. Sort, E. Pellicer, E. García-Lecina
TITLE: Full Optimization of an Electroless Nickel Solution: Boosting the Performance of Low-Phosphorous Coatings
JOURNAL/BOOK TITLE: Materials 14, 1501 **KEY:** A
DATE OF PUBLICATION: 2021
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☐ NO X **IMPACT FACTOR:** 3.68

329*- AUTHORS (in order of authorship): A. Nicolenco, M. de h-Óra, C. Yun, J. MacManus-Driscoll, J. Sort

TITLE: Strain-gradient effects in nanoscale-engineered magnetoelectric materials

JOURNAL/BOOK TITLE: APL Materials 9, 020903 **KEY:** A

DATE OF PUBLICATION: 2021

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:** 6.635

330- AUTHORS (in order of authorship): O. Careta, J. Fornell, E. Pellicer, E. Ibañez, A. Blanquer, J. Esteve, J. Sort, G. Murillo, C. Nogués

TITLE: ZnO Nanosheet-Coated TiZrPdSiNb Alloy as a Piezoelectric Hybrid Material for Self-Stimulating Orthopedic Implants

JOURNAL/BOOK TITLE: Biomedicines 9, 352

KEY: A

DATE OF PUBLICATION: 2021

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:** 4.7

331*- AUTHORS (in order of authorship): L. Herrera Diez, R. Kruk, K. Leistner, J. Sort

TITLE: Magnetoelectric materials, phenomena, and devices

JOURNAL/BOOK TITLE: APL Materials 9, 050401

KEY: A

DATE OF PUBLICATION: 2021

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:** 6.635

332*- AUTHORS (in order of authorship): X. Liang, A. Matyushov, P. Hayes, V. Schell, C. Dong, H. Chen, Y. He, A. Will-Cole, E. Quandt, P. Martins, J. McCord, M. Medarde, S. Lanceros-Méndez, S. Van Dijken, N. X. Sun, J. Sort

TITLE: Roadmap on Magnetoelectric Materials and Devices

JOURNAL/BOOK TITLE: IEEE Transactions on Magnetism 57, 400157

KEY: A

DATE OF PUBLICATION: 2021

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:** 1.848

333- AUTHORS (in order of authorship): S. Danilova, J.E. Graves, J. Sort, E. Pellicer, G.W.V. Cave, A. Cobley

TITLE: Electroless copper plating obtained by Selective Metallisation using a Magnetic Field (SMMF)

JOURNAL/BOOK TITLE: Electrochimica Acta 389, 138763

KEY: A

DATE OF PUBLICATION: 2021

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:** 6.9

334*- AUTHORS (in order of authorship): A. Nicolenco, Y. Chen, N. Tsyntsaru, H. Cesiulis, E. Pellicer, J. Sort

TITLE: Mechanical, magnetic and magnetostrictive properties of porous Fe-Ga films prepared by electrodeposition

JOURNAL/BOOK TITLE: Materials & Design 208, 109915

KEY: A

DATE OF PUBLICATION: 2021

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:** 9.4

335*- AUTHORS (in order of authorship): J. de Rojas, J. Salguero, F. Ibrahim, M. Chshiev, A. Quintana, A. Lopeandia, M.O. Liedke, M. Butterling, E. Hirschmann, A. Wagner, L. Abad, J.L. Costa-Krämer, E. Menéndez, J. Sort

TITLE: Magneto-Ionics in Single-Layer Transition Metal Nitrides
JOURNAL/BOOK TITLE: ACS Applied Materials & Interfaces 13, 30826 **KEY:** A
DATE OF PUBLICATION: 2021
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:** 10.3

336*- AUTHORS (in order of authorship): C. Navau, J. Sort
TITLE: Exploiting random phenomena in magnetic materials for data security, logics, and neuromorphic computing: Challenges and prospects
JOURNAL/BOOK TITLE: APL Materials 9, 070903 **KEY:** A
DATE OF PUBLICATION: 2021
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:** 6.635

337*- AUTHORS (in order of authorship): J. Sort, G. Rius
TITLE: Editorial for the Special Issue on “10th Anniversary of Nanomaterials—Recent Advances in Nanocomposite Thin Films and 2D Materials”
JOURNAL/BOOK TITLE: Nanomaterials 11, 2069 **KEY:** A
DATE OF PUBLICATION: 2021
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:** 5.719

338*- AUTHORS (in order of authorship): J. de Rojas, J. Salguero, A. Quintana, A. Lopeandia, M.O. Liedke, M. Butterling, A.G. Attallah, E. Hirschman, A. Wagner, L. Abad, J.L Costa-Krämer, J. Sort, E. Menéndez
TITLE: Critical Role of Electrical Resistivity in Magnetoionics
JOURNAL/BOOK TITLE: Physical Review Applied 16 (3), 034042 **KEY:** A
DATE OF PUBLICATION: 2021
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:** 4.9

339*- AUTHORS (in order of authorship): Y. Chen, A. Nicolenco, P. Molet, A. Mihi, E. Pellicer, J. Sort
TITLE: Magneto-ionic suppression of magnetic vortices
JOURNAL/BOOK TITLE: Science and Technology of Advanced Materials 22, 972 **KEY:** A
DATE OF PUBLICATION: 2021
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:** 7.81

340*- AUTHORS (in order of authorship): J. Sort, G. Rius
TITLE: 10th Anniversary of Nanomaterials— Recent Advances in Nanocomposite Thin Films and 2D Materials", Nanomaterials book MDPI (ISBN 978-3-0365-2160-2)
JOURNAL/BOOK TITLE: **KEY:** B
DATE OF PUBLICATION: 2021
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☐ NO X **IMPACT FACTOR:** N/A

341- AUTHORS (in order of authorship): J.M. Trigo-Rodríguez, E. Peña-Asensio, A. Rimola, J. Llorca, J. Ibáñez-Insa, J. Sort, J. Alonso-Azcárate

TITLE: Caracterizando asteroides, cometas y superficies planetarias en base al estudio de sus meteoritos

JOURNAL/BOOK TITLE: Astronomia 263, 24

KEY: A

DATE OF PUBLICATION: 2021

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☐ NO ☒ **IMPACT FACTOR:** N/A

342- AUTHORS (in order of authorship): A. B.Calia, E. Masvidal-Codina, T. M. Smith, N. Schäfer, D. Rathore, E. Rodríguez-Lucas, X. Illa, J. M. De la Cruz, E. Del Corro, E. Prats-Alfonso, D. Viana, J. Bousquet, C. Hébert, J. Martínez-Aguilar, J. R. Sperling, M. Drummond, A. Halder, A. Dodd, K. Barr, S. Savage, J. Fornell, J. Sort, C. Guger, R. Villa, K. Kostarelos, R. C. Wykes, A. Guimerà-Brunet, J. A. Garrido

TITLE: Full bandwidth electrophysiology of seizures and epileptiform activity enabled by flexible graphene micro-transistor depth neural probes

JOURNAL/BOOK TITLE: Nature Nanotechnology 17, 301

KEY: A

DATE OF PUBLICATION: 2022

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR:** 40.523

343*- AUTHORS (in order of authorship): C. Navarro-Senent, K. Eiler, S. Pané, J. Sort, E. Pellicer

TITLE: Lightweight macroporous L10-ordered Co–Pt electrodeposited films with semi-hard-magnetic properties

JOURNAL/BOOK TITLE: Materials & Design 213, 110369 **KEY:** A

DATE OF PUBLICATION: 2022

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR:** 9.4

344- AUTHORS (in order of authorship): S. L. Panahi, J. Fornell, C. Popescu, E. Pineda, J. Sort, P. Bruna

TITLE: Structure, mechanical properties and nanocrystallization of (FeCoCrNi)-(B,Si) high-entropy metallic glasses

JOURNAL/BOOK TITLE: Intermetallics, 141, 107432 **KEY:** A

DATE OF PUBLICATION: 2022

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR:** 3.76

345*- AUTHORS (in order of authorship): S. Martins, J. de Rojas, Z. Tan, M. Cialone, A. Lopeandia, J. Herrero-Martín, J. Costa-Kramer, E. Menéndez, J. Sort

TITLE: Dynamic electric-field-induced magnetic effects in cobalt oxide thin films: towards magneto-ionic synapses

JOURNAL/BOOK TITLE: Nanoscale 14, 842 **KEY:** A

DATE OF PUBLICATION: 2022

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR:** 8.3

346- AUTHORS (in order of authorship): P. Bazarnik, A. Bartkowska, Y. Huang, K. Szlazak, B. Adamczyk-Cieslak, J. Sort, M. Lewandowska, T.G. Langdon

TITLE: Fabrication of hybrid nanocrystalline Ti-Al alloys by mechanical bonding through high-pressure torsion

JOURNAL/BOOK TITLE: Materials Science and Engineering A 833, 142549 **KEY:** A

DATE OF PUBLICATION: 2022

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:** 5.234

347*- AUTHORS (in order of authorship): E. Demirci, J. de Rojas, A. Quintana, I. Fina, E. Menéndez, [J. Sort](#)

TITLE: Voltage-driven strain-mediated modulation of exchange bias in Ir₂₀Mn₈₀/Fe₈₀Ga₂₀/Ta(011)-oriented PMN-32PT heterostructures

JOURNAL/BOOK TITLE: Appl. Phys. Lett. 120, 142406 **KEY:** A

DATE OF PUBLICATION: 2022

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☐ NO X **IMPACT FACTOR:** 3.816

348*- AUTHORS (in order of authorship): J. de Rojas, A. Quintana, G. Rius, C. Stefani, N. Domingo, J.L. Costa-Krämer, E. Menéndez, [J. Sort](#)

TITLE: Voltage control of magnetism with magneto-ionic approaches: Beyond voltage-driven oxygen ion migration

JOURNAL/BOOK TITLE: Appl. Phys. Lett. 120, 070501 **KEY:** A

DATE OF PUBLICATION: 2022

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☐ NO X **IMPACT FACTOR:** 3.816

349*- AUTHORS (in order of authorship): [J. Sort](#)

TITLE: Nanocomposite Materials: A Section of Nanomaterials

JOURNAL/BOOK TITLE: Nanomaterials 12, 203 **KEY:** A

DATE OF PUBLICATION: 2022

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:** 5.719

350- AUTHORS (in order of authorship): J. Bai, J. Zhang, K. Eiler, Z. Yang, L. Fan, D. Yang, M. Zhang, Y. Hou, R. Guan, [J. Sort](#), E. Pellicer

TITLE: Electrochemically Fabricated Surface-Mesostructured CuNi Bimetallic Catalysts for Hydrogen Production in Alkaline Media

JOURNAL/BOOK TITLE: Nanomaterials 12, 118 **KEY:** A

DATE OF PUBLICATION: 2022

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:** 5.719

351- AUTHORS (in order of authorship): A. Gomez, W. Palyulin, G.V. Ryzhakov, N.V. Brilliantov, E.V. Dubrovin, A. Verdaguer, [J. Sort](#)

TITLE: Measurement of stress distribution at the nanoscale: Towards stress nanotomography

JOURNAL/BOOK TITLE: Journal of the Mechanics and Physics of Solids 164, 104895

KEY: A

DATE OF PUBLICATION: 2022

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:** 5.471

352- AUTHORS (in order of authorship): K. Eiler, L. Mølmen, L. Fast, P. Leisner, [J. Sort](#), E. Pellicer

TITLE: Oxygen reduction reaction and PEM fuel cell performance of pulse electrodeposited Pt–Ni and Pt–Ni–Mo(O) nanoparticles

JOURNAL/BOOK TITLE: Materials Today Energy 27, 101023
KEY: A
DATE OF PUBLICATION: 2022
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR:** 8.38

353*- AUTHORS (in order of authorship): B. Prasad, S. Parkin, T. Prodromakis, C.-B. Eom, J. Sort, J. L. MacManus-Driscoll
TITLE: Material challenges for nonvolatile memory
JOURNAL/BOOK TITLE: APL Mater. 10, 090401 **KEY:** A
DATE OF PUBLICATION: 2022
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR:** 6.635

354- AUTHORS (in order of authorship): J. Wu, D. Folio, J. Zhu, B. Jang, X. Chen, J. Feng, P. Gambardella, J. Sort, J. Puigmartí-Luis, O. Ergeneman, A. Ferreira, S. Pané
TITLE: Motion Analysis and Real-Time Trajectory Prediction of Magnetically Steerable Catalytic Janus Micromotors
JOURNAL/BOOK TITLE: Advanced Intelligent Systems 4, 2200192 **KEY:** A
DATE OF PUBLICATION: 2022
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR:** 7.2

355*- AUTHORS (in order of authorship): Z. Tan, S. Martins, M. Escobar, J. de Rojas, F. Ibrahim, M. Chshiev, A. Quintana, A. Lopeandia, J.L. Costa-Kramer, E. Menéndez, J. Sort
TITLE: From Binary to Ternary Transition-Metal Nitrides: A Boost toward Nitrogen Magneto-Ionics
JOURNAL/BOOK TITLE: ACS Applied Materials & Interfaces 14, 44581 **KEY:** A
DATE OF PUBLICATION: 2022
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR:** 10.3

356*- AUTHORS (in order of authorship): J. Sort
TITLE: Special Feature: Permanent and Long-Term Biodegradable Biomaterials
JOURNAL/BOOK TITLE: Applied Sciences 12, 12874 **KEY:** A
DATE OF PUBLICATION: 2022
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☐ NO ☒ **IMPACT FACTOR:** 0.772

357- AUTHORS (in order of authorship): R. Fagotto Clavijo, M. Riba-Moliner, A. González-Campo, J. Sort, E. Pellicer, K. Eiler
TITLE: PS-b-P4VP block copolymer micelles as a soft template to grow openly porous nickel films for alkaline hydrogen evolution
JOURNAL/BOOK TITLE: Catalysis Today 423, 113916.
KEY: A
DATE OF PUBLICATION: 2023
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR:** 5.70

358- AUTHORS (in order of authorship): A. Fluksman, A. Lafuente, R. Braunstein, E. Steinberg, N. Friedman, Z. Yekhin, R. Hazan, Z. Li, J. Sort, A. Gomez-Roca, M. J. Esplandiu, J. Nogues, O. Benny, B. Sepulveda

TITLE: Efficient tumor eradication at ultralow drug concentration via magnetically controlled drug delivery boosted by photothermal actuation using iron magneto-plasmonic nanodomes

JOURNAL/BOOK TITLE: ACS Nano 17, 1946

KEY: A

DATE OF PUBLICATION: 2023

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR:** 18.027

359- AUTHORS (in order of authorship): S. Martins, Z. Ma, X. Monfort, M. Sodupe, L. Santiago, E. Menéndez, E. Pellicer, J. Sort

TITLE: Enhancing magneto-ionic effects in Co oxide films by electrolyte engineering

JOURNAL/BOOK TITLE: Nanoscale Horizons 8, 118

KEY: A

DATE OF PUBLICATION: 2023

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR:** 10.989

360- AUTHORS (in order of authorship): A. Bartkowska, O. Careta, A. Turner, A. Blanquer, E. Ibañez, M. Trobos, C. Nogués, E. Pellicer, J. Sort

TITLE: Biodegradable porous FeMn(-xAg) alloys: assessment of cytocompatibility, mechanical, magnetic and antibiofilm properties

JOURNAL/BOOK TITLE: Materials Advances 4, 616

KEY: A

DATE OF PUBLICATION: 2023

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☐ NO ☒ **IMPACT FACTOR:** N/A

361- AUTHORS (in order of authorship): M. Escobar, O. Careta, N. Fernández Navas, A. Bartkowska, L. A. Alberta, J. Fornell, P. Solsona, T. Gemming, A. Gebert, E. Ibañez, A. Blanquer, C. Nogués, J. Sort, E. Pellicer

TITLE: Surface Modified β -Ti-18Mo-6Nb-5Ta (wt%) Alloy for Bone Implant Applications: Composite Characterization and Cytocompatibility Assessment

JOURNAL/BOOK TITLE: Journal of Functional Biomaterials 14, 94

KEY: A

DATE OF PUBLICATION: 2023

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☐ NO ☒ **IMPACT FACTOR:** N/A

362- AUTHORS (in order of authorship): D. Raj, G. Barrera, F. Scaglione, F. Celegato, M. Cialone, M. Coisson, P. Tiberto, J. Sort, P. Rizzi, E. Pellicer

TITLE: Electrochemical Synthesis, Magnetic and Optical Characterisation of FePd Dense and Mesoporous Nanowires

JOURNAL/BOOK TITLE: Nanomaterials 13, 403

KEY: A

DATE OF PUBLICATION: 2023

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☒ NO ☐ **IMPACT FACTOR:** N/A

363*- AUTHORS (in order of authorship): Z. Tan, J. de Rojas, S. Martins, A. Lopeandia, A. Quintana, M. Cialone, J. Herrero-Martín, J. Meersschaut, A. Vantomme, J. L. Costa-Krämer, J. Sort, E. Menéndez

TITLE: Frequency-dependent stimulated and post-stimulated voltage control of magnetism in transition metal nitrides: towards brain-inspired magneto-ionics

JOURNAL/BOOK TITLE: Materials Horizons 10, 88

KEY: A

DATE OF PUBLICATION: 2023

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:** N/A

364*- AUTHORS (in order of authorship): Z. Tan, Z. Ma, L. Fuentes, M. O. Liedke, M. Butterling, A. G. Attallah, E. Hirschmann, A. Wagner, L. Abad, N. Casañ-Pastor, A. F. Lopeandía, E. Menéndez, J. Sort

TITLE: Regulating oxygen ion transport at the nanoscale to enable highly cyclable magneto-ionic control of magnetism

JOURNAL/BOOK TITLE: ACS Nano 17, 6973

KEY: A

DATE OF PUBLICATION: 2023

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:** N/A

365- AUTHORS (in order of authorship): K. Eiler, J. Sort, E. Pellicer

TITLE: Catalysis: platinum-free

JOURNAL/BOOK TITLE: Encyclopedia of Electrochemical Power Sources, Elsevier, Second Edition

KEY: BC

DATE OF PUBLICATION: 2023

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☐ NO X **IMPACT FACTOR:** N/A

366*- AUTHORS (in order of authorship): M. de h-Óra, A. Nicolenco, P. Monalisha, T. Maity, B. Zhu, S. Lee, Z. Sun, J. Sort, J. MacManus-Driscoll

TITLE: Highly cyclable voltage control of magnetism in cobalt ferrite nanopillars for memory and neuromorphic applications

JOURNAL/BOOK TITLE: APL Materials 11, 051105

KEY: A

DATE OF PUBLICATION: 2023

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:** N/A

367- AUTHORS (in order of authorship): N. Kovalska, A. Mulone, J. Sort, U. Klement, G. Blugan, W. Hansal, W. Kautek

TITLE: Electrodeposition of soft magnetic Fe-W-P alloy coatings from an acidic electrolyte

JOURNAL/BOOK TITLE: Coatings 13, 801

KEY: A

DATE OF PUBLICATION: 2023

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:** N/A

368*- AUTHORS (in order of authorship): Z. Ma, L. Fuentes-Rodriguez, Z. Tan, E. Pellicer, L. Abad, J. Herrero-Martín, E. Menéndez, N. Casañ-Pastor, J. Sort

TITLE: Wireless magneto-ionics: voltage control of magnetism by bipolar electrochemistry

JOURNAL/BOOK TITLE: Nature Communications 14, 6486

KEY: A

DATE OF PUBLICATION: 2023

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:** 16.6

369- AUTHORS (in order of authorship): A. Bartkowska, A. B. Turner, A. Blanquer, A. Nicolenco, M. Trobos, C. Nogués, E. Pellicer, J. Sort

TITLE: Accelerated biodegradation of FeMn porous alloy coated with ZnO: effect on cytocompatibility and antibiofilm properties

JOURNAL/BOOK TITLE: Surface & Coatings Technology 471, 129886

KEY: A

DATE OF PUBLICATION: 2023

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:** 16.6

370*- AUTHORS (in order of authorship): A. Bartkowska, C. Lekka, L.A. Alberta, I. Spasojevic, E. Pellicer, J. Sort

TITLE: Silver-induced $\gamma \rightarrow \epsilon$ martensitic transformation in FeMn alloys: an experimental and computational study

JOURNAL/BOOK TITLE: Journal of Alloys and Compounds 966, 171640

KEY: A

DATE OF PUBLICATION: 2023

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:** 16.6

371*- AUTHORS (in order of authorship): P. Monalisha, Z. Ma, E. Pellicer, E. Menéndez, J. Sort

TITLE: A Multilevel Magnetic Synapse Based on Voltage-Tuneable Magnetism by Nitrogen Ion Migration

JOURNAL/BOOK TITLE: Advanced Electronic Materials 9, 8, 2300249.

KEY: A

DATE OF PUBLICATION: 2023

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:** 16.6

372*- AUTHORS (in order of authorship): O. Careta, A. Nicolenco, F. Perdikos, A. Blanquer, E. Ibáñez, E. Pellicer, C. Stefani, B. Sepúlveda B, J. Nogués, J. Sort, C. Nogués

TITLE: Enhanced proliferation and differentiation of human osteoblasts by remotely controlled magnetic-field-induced electric stimulation using flexible substrates

JOURNAL/BOOK TITLE: ACS Applied Materials Interfaces 15, 58054

KEY: A

DATE OF PUBLICATION: 2023

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:** 16.6

373- AUTHORS (in order of authorship): C. von Baeckmann, J. Martínez-Esaín, J. Suárez, L. Meng, J. Garcia-Masferrer, J. Faraudo, J. Sort, A. Carné-Sánchez, D. Maspoch

TITLE: Porous and Meltable Metal-Organic Polyhedra for the Generation and Shaping of Porous Mixed-Matrix Composites

JOURNAL/BOOK TITLE: Journal of the American Chemical Society 146, 7159

KEY: A

DATE OF PUBLICATION: 2024

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:**

374- AUTHORS (in order of authorship): T. Zakusylo, A. Quintana, V. Lenzi, J. P. B. Silva, L. Marques, J. L. Ortola Yano, J. Lyu, J. Sort, F. Sánchez, I. Fina

TITLE: Robust multiferroicity and magnetic modulation of the ferroelectric imprint field in heterostructures comprising epitaxial $\text{Hf}_{0.5}\text{Zr}_{0.5}\text{O}_2$ and Co

JOURNAL/BOOK TITLE: Materials Horizons 11, 2388 **KEY:** A
DATE OF PUBLICATION: 2024
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:**

375*- AUTHORS (in order of authorship): D.A. Ochoa, E. Menéndez, J. López-Sánchez, A. del Campo, Z. Ma, I. Spasojevic, I. Fina, J.F. Fernnández, F. Rubio-Marcos, J. Sort, J.E. García
TITLE: Reversible optical control of magnetism in engineered artificial multiferroics
JOURNAL/BOOK TITLE: Nanoscale 16, 4900 **KEY:** A
DATE OF PUBLICATION: 2024
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:**

376- AUTHORS (in order of authorship): H. Tan, A. Quintana, N. Dix, S. Estandía, J. Sort, F. Sánchez, I. Fina
TITLE: Photovoltaic-driven dual optical writing and non-destructive voltage-less reading of polarization in ferroelectric $\text{Hf}_{0.5}\text{Zr}_{0.5}\text{O}_2$ for energy efficient memory devices
JOURNAL/BOOK TITLE: Nano Energy 123, 109384 **KEY:** A
DATE OF PUBLICATION: 2024
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:**

377- AUTHORS (in order of authorship): E. Peña-Asensio, J. M. Trigo-Rodríguez, J. Sort, J. Ibáñez-Insa, A. Rimola
TITLE: Mechanical properties of minerals in lunar and HED meteorites from nanoindentation testing: implications for space mining
JOURNAL/BOOK TITLE: Meteoritics & Planetary Science 59, 1297 **KEY:** A
DATE OF PUBLICATION: 2024
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:**

378- AUTHORS (in order of authorship): Y. Chen, J. Zhang, J. Sort, E. Pellicer, R. Guan
TITLE: Magnetic field-controlled bubble templated CuNi foam films and their performance towards hydrogen evolution reaction in alkaline media
JOURNAL/BOOK TITLE: International Journal of Hydrogen Energy 59, 625-634.
KEY: A
DATE OF PUBLICATION: 2024
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:**

379- AUTHORS (in order of authorship): M. Escobar, V. Hoffmann, T. Gemming, M. Kim, S. Pané, J. Sort, E. Pellicer
TITLE: One and two-step electrodeposition of composite films of calcium-deficient hydroxyapatite matrix with nanoscale Ag- and Zn-based particles
JOURNAL/BOOK TITLE: Surfaces and Interfaces 44, 103671 **KEY:** A
DATE OF PUBLICATION: 2024
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:**

380*- AUTHORS (in order of authorship): Z. Ma, P. Monalisha, Z. Tan, E. Pellicer, M. O. Liedke, M. Butterling, A. G. Attallah, E. Hirschmann, A. Wagner, F. Ibrahim, M. Chshiev, E. Menéndez, [J. Sort](#)
TITLE: Optimizing Magneto-ionic Performance in Structure/Composition-Engineered Ternary Nitrides
JOURNAL/BOOK TITLE: Journal of Materiomics 10, 870 **KEY:** A
DATE OF PUBLICATION: 2024
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:**

381*- AUTHORS (in order of authorship): N. López-Pintó, C. J. Jensen, Z. Chen, Z. Tan, Z. Ma, M. O. Liedke, M. Butterling, A. Wagner, J. Herrero-Martín, E. Menéndez, J. Nogués, K. Liu, [J. Sort](#)
TITLE: Room-Temperature Solid-State Nitrogen-Based Magneto-Ionics in $\text{Co}_x\text{Mn}_{1-x}\text{N}$ Films.
JOURNAL/BOOK TITLE: Advanced Functional Materials 34, 2404487 **KEY:** A
DATE OF PUBLICATION: 2024
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:**

382- AUTHORS (in order of authorship): P. Nizet, F. Chiabrera, N. López-Pintó, N. Alayo, P. Langner, S. Valencia, A. Fraile Rodríguez, F. Baiutti, A. Smekhova, A. Morata, [J. Sort](#), A. Tarancón
TITLE: Analog control of $\text{La}_{0.5}\text{Sr}_{0.5}\text{FeO}_{3-\delta}$ electrical properties through oxygen deficiency induced magnetic transition
JOURNAL/BOOK TITLE: Applied Physics Reviews 11, 041426 **KEY:** A
DATE OF PUBLICATION: 2024
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:**

383*- AUTHORS (in order of authorship): P. Monalisha, M. Ameziane, I. Spasojevic, E. Pellicer, R. Mansell, E. Menéndez, S. Van Dijken, [J. Sort](#)
TITLE: Magnetoionics for Synaptic Devices and Neuromorphic Computing: Recent Advances, Challenges, and Future Perspectives
JOURNAL/BOOK TITLE: Small Science 4 (2024) 2400133 **KEY:** A
DATE OF PUBLICATION: 2024
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:**

384- AUTHORS (in order of authorship): Z. Ma, S. Martins, Z. Tan, S. Chen, E. Montebianco, M. O. Liedke, M. Butterling, A. G. Attallah, E. Hirschmann, A. Wagner, L. Herrera Díez, E. Pellicer, D. Ravelosona, [J. Sort](#), E. Menéndez
TITLE: Controlling magneto-ionics by defect engineering through light ion implantation
JOURNAL/BOOK TITLE: Advanced Functional Materials 34, 2312827 **KEY:** A
DATE OF PUBLICATION: 2024
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:**

385*- AUTHORS (in order of authorship): Z. Ma, Z. Tan, A. Quintana, I. Spasojevic, N. López-Pintó, F. Sánchez, I. Fina, J. Herrero-Martín, E. Menéndez, [J. Sort](#)
TITLE: Ionic control of magnetism in all-solid-state $\text{CoOx/yttria-stabilized zirconia}$ heterostructures
JOURNAL/BOOK TITLE: Applied Physics Letters 124, 202404 **KEY:** A
DATE OF PUBLICATION: 2024
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:**

386- AUTHORS (in order of authorship): K Eiler, S Pané, M Döbeli, A Müller, C Vockenhuber, J. Sort, E Pellicer

TITLE: Electrosynthesis-Induced Pt Skin Effect in Mesoporous Ni-Rich Ni–Pt Thin Films for Hydrogen Evolution Reaction

JOURNAL/BOOK TITLE: ACS Applied Materials & Interfaces 16 (2024) 42305 **KEY:** A

DATE OF PUBLICATION: 2024

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:**

387- AUTHORS (in order of authorship): E. Peña-Asensio, J. M. Trigo-Rodríguez, J. Sort, J. Ibáñez-Insa, A. Rimola

TITLE: Machine learning applications on lunar meteorite minerals: from classification to mechanical properties prediction

JOURNAL/BOOK TITLE: International Journal of Mining Science and Technology 34, 1283

KEY: A

DATE OF PUBLICATION: 2024

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:**

388- AUTHORS (in order of authorship): P. Grèbol-Tomàs, J. M. Trigo-Rodríguez, J. Ibáñez-Insa, E. Peña-Asensio, R. Cuscó, I. Weber, J. Sort

TITLE: Nanoindentation of lunar basalts: mechanical properties of the NWA 12008 meteorite

JOURNAL/BOOK TITLE: Meteoritics & Planetary Science 59, A164. **KEY:** A

DATE OF PUBLICATION: 2024

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:**

389- AUTHORS (in order of authorship): X. Iturbe, ... J. Sort, et al.

TITLE: Neuromorphic technology insights in Spain

JOURNAL/BOOK TITLE: IEEE 24th International Conference on Nanotechnology (NANO), Gijón, Spain, 2024, pp. 1-11, doi: 10.1109/NANO61778.2024.10669907 **KEY:** A

DATE OF PUBLICATION: 2024

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES ☐ NO X **IMPACT FACTOR:**

390*- AUTHORS (in order of authorship): I. Spasojevic, Z. Ma, A. Barrera, F. Celegato, A. Magni, S. Ruiz-Gómez, M. Foerster, A. Palau, P. Tiberto, K. S. Buchanan, J. Sort

TITLE: Magneto-ionic vortices: voltage-reconfigurable swirling-spin analog-memory nanomagnets

JOURNAL/BOOK TITLE: Nature Communications 16, 1990 **KEY:** A

DATE OF PUBLICATION: 2025

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:**

391- AUTHORS (in order of authorship): K. Eiler, F. Alcaide, E. García-Lecina, J. Sort, E. Pellicer

TITLE: Mesoporous Ni–Pt nanoparticles on Ni foam by electrodeposition: Dual porosity for efficient alkaline hydrogen evolution

JOURNAL/BOOK TITLE: International Journal of Hydrogen Energy 99, 448. **KEY:** A

DATE OF PUBLICATION: 2025

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:**

392*- AUTHORS (in order of authorship): A. Arredondo-López, K. Eiler, A. Quintana, G. Rius, I. Spasojevic, A. Salicio, A. Nicolenco, M. Lekka, E. García-Lecina, G. Brunin, D. Waroquiers, G.-M. Rigagnese, E. Pellicer, E. Menéndez, [J. Sort](#)

TITLE: Composition-Dependent Voltage-Driven OFF-ON Switching of Ferromagnetism in Co–Ni Oxide Microdisks

JOURNAL/BOOK TITLE: ACS Applied Materials & Interfaces 17 (2025) 9500. **KEY:** A

DATE OF PUBLICATION: 2025

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:**

393*- AUTHORS (in order of authorship): Z. Ma, A. Arredondo-López, J. Wrona, J. Herrero-Martín, J. Langer, O. Berthold, E. Pellicer, E. Menéndez, [J. Sort](#)

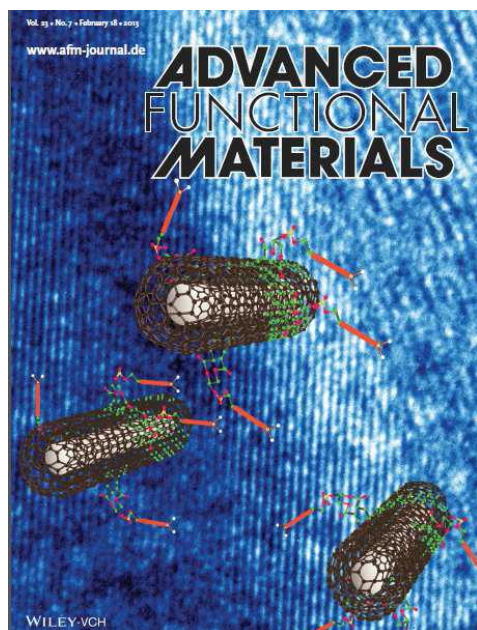
TITLE: Magneto-ionic engineering of antiferromagnetically RKKY-coupled multilayers

JOURNAL/BOOK TITLE: Advanced Materials (2025, in press) **KEY:** A

DATE OF PUBLICATION: 2025

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION: YES X NO ☐ **IMPACT FACTOR:**

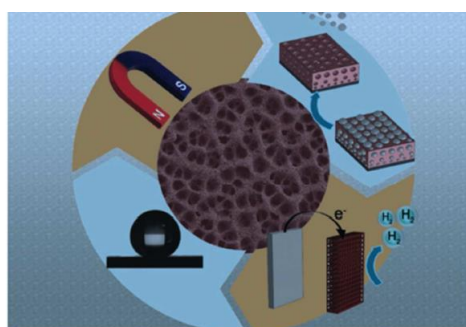
Journal Covers



Inside Front Cover of Advanced Functional Materials, Issue February 2013: *Graphite Coating of Iron Nanowires for Nanorobotic Applications: Synthesis, Characterization and Magnetic Wireless Manipulation*



Inside Front Cover of Small, Issue April 2014: *Hybrid helical magnetic microrobots obtained by 3D template-assisted electrodeposition*
M. A. Zeeshan, S. Pané, and co-workers



Showcasing research from the Group of Smart Nanoengineered Materials, Nanomechanics and Nanomagnetism, Universitat Autònoma de Barcelona, Spain.

Electrodeposition of magnetic, superhydrophobic, non-stick, two-phase Cu–Ni foam films and their enhanced performance for hydrogen evolution reaction in alkaline water media

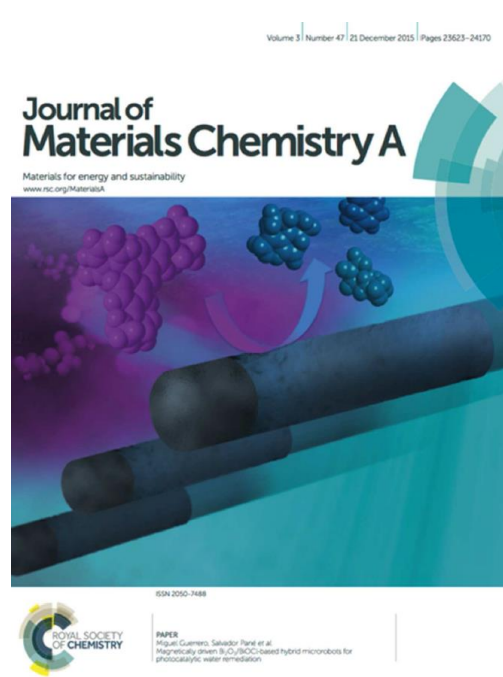
We electrodeposited two-phase Cu–Ni magnetic metallic foams (MMFs) with tunable compositions and morphologies by taking advantage of the hydrogen co-evolution as a source of micro/nanoporosity. The physico-chemical properties (e.g. ferromagnetic behaviour, superhydrophobicity and electrochemical activity towards hydrogen evolution) of the as-prepared MMFs were investigated.

As featured in:



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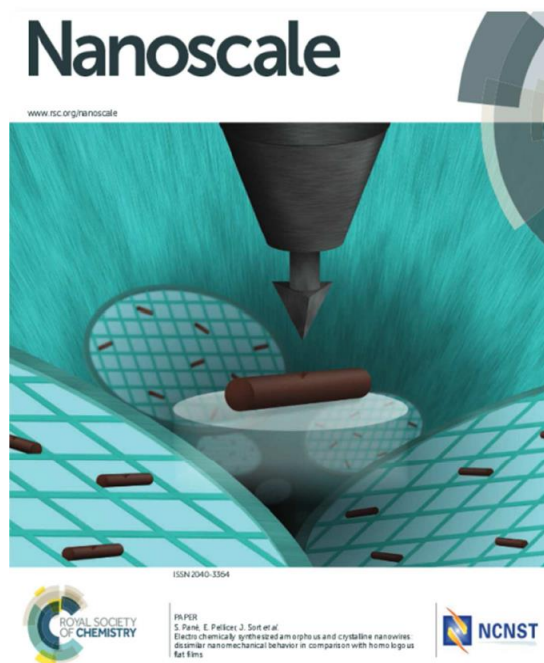
Inside Back Cover of Nanoscale, Issue November 2014: *Electrodeposition of magnetic, superhydrophobic, non-stick, two phase Cu–Ni foam films and their enhanced performance for hydrogen evolution reaction in alkaline water media*



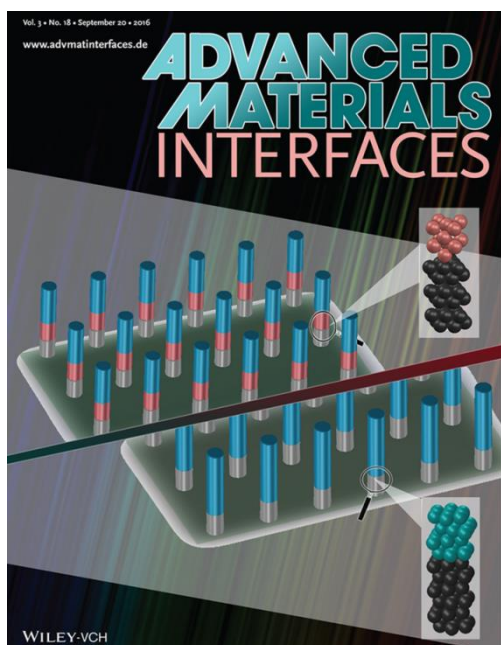
Inside Front Cover of Journal of Materials Chemistry A, Issue December 2015: *Magnetically Driven Bi₂O₃/BiOCl-Based Hybrid Microrobots for Photocatalytic Water Remediation*



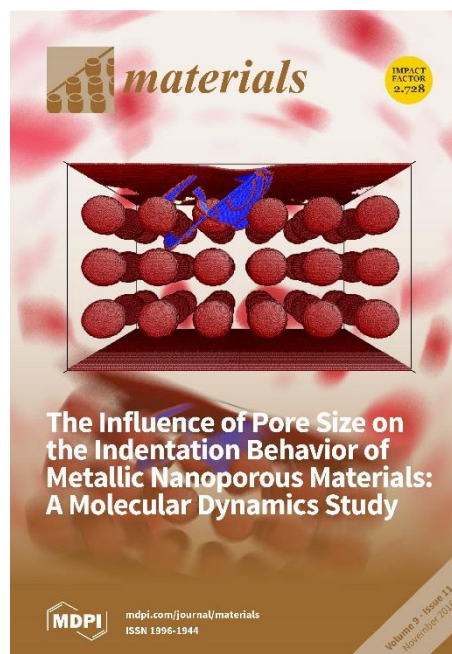
Front Cover of Journal of Sol-Gel Science and Technology, Issue November 2016:
Composite films combining electrospun fiber network and epitaxial oxide by chemical solution deposition



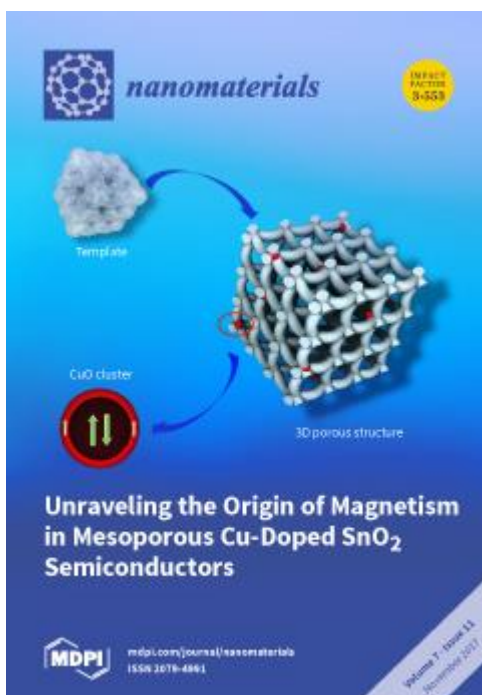
Front Cover of Nanoscale, Issue January 2016: *Electrochemically Synthesized Amorphous and Crystalline Nanowires: Dissimilar Nanomechanical Behavior in Comparison to Homologous Flat Films*



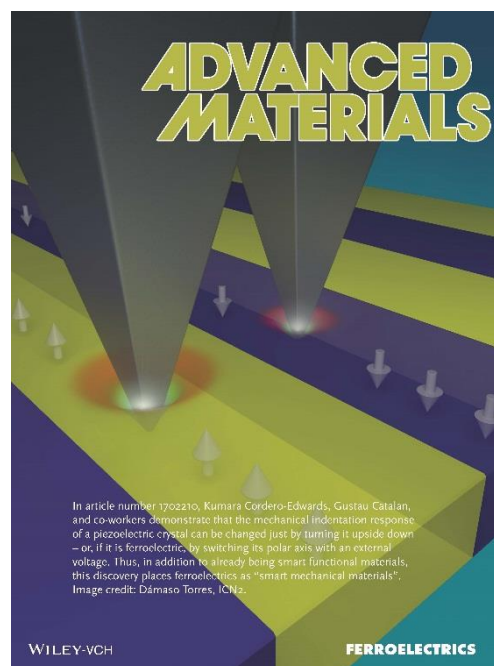
Back Cover of Advanced Materials Interfaces, Issue September 2016:
Toward Robust Segmented Nanowires: Understanding the Impact of Crystallographic Texture on the Quality of Segment Interfaces in Magnetic Metallic Nanowires



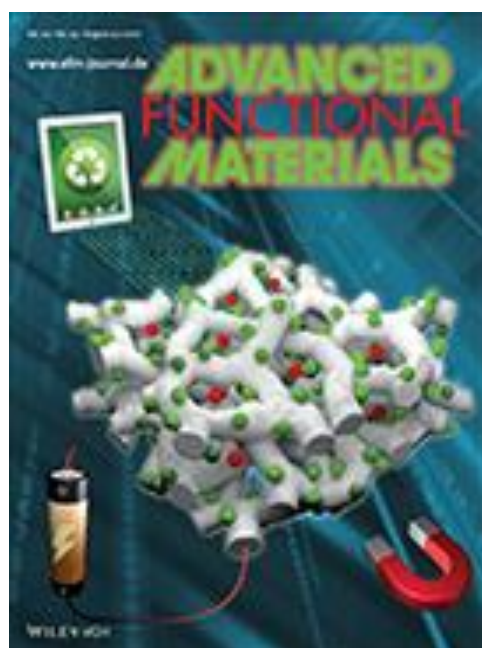
Front Cover of Materials, Issue May 2016: *The Influence of Pore Size on the Indentation Behavior of Metallic Nanoporous Materials: A Molecular Dynamics Study*



Front Cover of *Nanomaterials*, volume 7, Issue 11, November 2017: Unraveling the Origin of Magnetism in Mesoporous Cu-doped SnO₂ Semiconductors



Frontispiece of *Advanced Materials*, Issue October 2017: *Ferroelectrics: Ferroelectrics as Smart Mechanical Materials* (Adv. Mater. 37/2017)



Back Cover, *Adv. Funct. Mater.* 32/2017: Magnetic Actuation: Voltage-Induced Coercivity Reduction in Nanoporous Alloy Films: A Boost toward Energy-Efficient Magnetic Actuation



Cover Feature, *ChemSusChem*. 2/2018: Micelle Assisted Electrodeposition of Mesoporous Fe-Pt smooth Thin Films and their Electrocatalytic Activity towards the Hydrogen Evolution Reaction

Invited Presentations in Conferences

1.- AUTHORS: J. Sort, J. Nogués, X. Amils, S. Suriñach, J.S. Muñoz, M.D. Baró

TITLE: "Enhancement of Coercivity by Mechanical Alloying Ferromagnetic And Antiferromagnetic materials"

TYPE OF PRESENTATION: INVITED

CONFERENCE: ISMANAM 99

PUBLICATION: Materials Science Forum, 343 (2000) 812-818

MEETING PLACE: Dresden, Germany

YEAR: 1999

2.- AUTHORS: J. Sort, J. Nogués, S. Suriñach, J.S. Muñoz, M.D. Baró

TITLE: "Exchange coupling enhancement of the room temperature coercivity in ball milled antiferromagnetic - ferromagnetic composites"

TYPE OF PRESENTATION: INVITED

CONFERENCE: NANOS 2000

PUBLICATION:

MEETING PLACE: Sendai, Japan

YEAR: 2000

3.- AUTHORS: J. Sort, J. Nogués, S. Suriñach, J.S. Muñoz, M.D. Baró, E. Chappel, F. Dupont, G. Chouteau

TITLE: "Structural and Magnetic characterization of ball milled hard magnetic (SmCo₅) + antiferromagnetic (NiO, CoO) powders"

TYPE OF PRESENTATION: INVITED

CONFERENCE: ISMANAM 2001

PUBLICATION: Materials Science Forum 368-388 (2002) 465

MEETING PLACE: Ann Arbor, Michigan, USA

YEAR: 2001

4.- AUTHORS: J. Nogués, J. Sort, S. Suriñach, J.S. Muñoz, M.D. Baró

TITLE: "Coercivity enhancement in ferromagnetic-antiferromagnetic composites"

TYPE OF PRESENTATION: INVITED

CONFERENCE: II Reunión Nacional de Física del Estado Sólido

PUBLICATION:

MEETING PLACE: Calella Barcelona, Spain

YEAR: 2002

5.- AUTHORS: J. Sort, J. Nogués, S. Suriñach, J.S. Muñoz, M.D. Baró

TITLE: "Coercivity enhancement of Sr-ferrites in ferromagnetic-antiferromagnetic composites processed by ball milling and subsequent heat treatments"

TYPE OF PRESENTATION: INVITED

CONFERENCE: ISMANAM2002

PUBLICATION: Journal of Metastable and Nanocrystalline Materials 15-16 (2003)

MEETING PLACE: Seoul, Korea

YEAR: 2002

6.- AUTHORS: J. Nogués, J. Sort, S. Suriñach, J.S. Muñoz, M.D. Baró, S. de Brion, G. Chouteau, V. Skumryev, G.C. Hadjipanayis, E. Pina, J.M. González, A. Hernando
TITLE: "Coercivity and squareness enhancement by ferromagnetic-antiferromagnetic coupling"
TYPE OF PRESENTATION: INVITED
CONFERENCE: International Conference on Magnetism, ICM 2003
PUBLICATION:
MEETING PLACE: Rome, Italy
YEAR: 2003

7.- AUTHORS: J. Sort, J. Nogués, A. Zhilyaev, M. Zielinska, S. Suriñach, J. S. Muñoz, M. Wojcik, E. Jedryka, S. Nadolski, M.D. Baró
TITLE: "Severe plastic deformation effects induced in cobalt by ball milling and high pressure torsion"
TYPE OF PRESENTATION: INVITED
CONFERENCE: ISMANAM2003
PUBLICATION:
MEETING PLACE: Foz do Iguaçu, Brazil
YEAR: 2003

8.- AUTHORS: J. Nogués, J. Sort, V. Langlais, S. Doppiu, S. Suriñach, J.S. Muñoz, M.D. Baró, V. Skumryev, G.C. Hadjipanayis, S. de Brion, G. Chouteau
TITLE: "Coercivity enhancement in antiferromagnetic-ferromagnetic (oxide-metal) composites"
TYPE OF PRESENTATION: INVITED
CONFERENCE: IUMRS-International Conference on Advanced Materials
PUBLICATION:
MEETING PLACE: Yokohama, Japan
YEAR: 2003

9.- AUTHORS: J. Nogués, V. Langlais, J. Sort, S. Doppiu, B. Dieny, Ch. Laurent, S. Suriñach, J.S. Muñoz, M.D. Baró
TITLE: "Structural and magnetic properties of metallic-oxide nanocompounds obtained from H₂ reduction of oxides"
TYPE OF PRESENTATION: INVITED
CONFERENCE: Variety of oxide materials and properties, VOMP
PUBLICATION:
MEETING PLACE: Tsukuba, Japan
YEAR: 2003

10.- AUTHORS: J. Sort, S. Suriñach, J.S. Muñoz, M.D. Baró, M. Wojcik, E. Jedryka, S. Nadolski, N. Shedulko, J. Nogués
TITLE: "Role of stacking faults in the structural and magnetic properties of ball milled Co"
TYPE OF PRESENTATION: INVITED
CONFERENCE: Materials Science and Technology 2003 (Fall Meeting of the TMS Society)
PUBLICATION:
MEETING PLACE: Chicago, USA
YEAR: 2003

11.- AUTHORS: J. Sort
TITLE: "Comparative study of exchange bias properties in ferromagnetic-antiferromagnetic dots of different shapes prepared by different nanostructuring techniques"

TYPE OF PRESENTATION: INVITED

CONFERENCE: Seminar at the Universidad Autónoma de Madrid

PUBLICATION:

MEETING PLACE: Madrid, Spain

YEAR: 2004

12- AUTHORS: V. Langlais, S. Doppiu, J. Sort, B. Dieny, Ch. Laurent, S. Suriñach, V. Skumryev, J.S. Muñoz, M.D. Baró, J. Nogues

TITLE: "Synthesis and characterization of ferromagnetic - antiferromagnetic nanocomposites by controlled reduction under H₂ atmosphere "

TYPE OF PRESENTATION: INVITED

CONFERENCE: ISMANAM2004

PUBLICATION:

MEETING PLACE: Sendai, Japón

YEAR: 2004

13- AUTHORS: J. Sort, V. Baltz, B. Rodmacq, B. Dieny

TITLE: "High density applications of the exchange bias phenomena in thin films and patterned nanostructures "

TYPE OF PRESENTATION: INVITED

CONFERENCE: Internacional Workshop on Exchange Biased Magnetic Nanostructures, IWEBMN

PUBLICATION:

MEETING PLACE: Anglet, France

YEAR: 2004

14- AUTHORS: J. Nogués, V. Skumryev, S. Stoyanov, Y. Zhang, G. Hadjipanayis, D. Givord, K. Liu, C. Leighton, H. Masuda, K. Nishio, I.V. Roshchin, I.K. Schuller, J. Esenmenger, J. Sort, J.S. Muñoz, S. Suriñach, M.D. Baró

TITLE: "Overcoming thermal fluctuations in ferromagnetic nanostructures using exchange bias"

TYPE OF PRESENTATION: INVITED

CONFERENCE: AVS 51st International Symposium & Exhibition

PUBLICATION:

MEETING PLACE: Anaheim, USA

YEAR: 2004

15- AUTHORS: J. Sort, S. Suriñach, J.S. Muñoz, M. Wojcik, E. Jedryka, S. Nadolski, N. Shedulko, J. Nogués, M. D. Baró

TITLE: "Structural and magnetic properties of cobalt subjected to ball milling and high pressure torsion"

TYPE OF PRESENTATION: INVITED

CONFERENCE: Nanostructured Materials Mechanics, NMM

PUBLICATION:

MEETING PLACE: San Petersburgo, Rusia

YEAR: 2004

16- AUTHORS: J. Nogués, V. Skumryev, S. Stoyanov, Y. Zhang, G. Hadjipanayis, D. Givord, V. Langlais, J. Sort, S. Doppiu, Ch. Laurent, J.S. Muñoz, S. Suriñach, M.D. Baró

TITLE: "Exchange bias in nanoparticles"

TYPE OF PRESENTATION: INVITED
CONFERENCE: XIII International Materials Research Congress
PUBLICATION:
MEETING PLACE: Cancún, Mexico
YEAR: 2004

17- AUTHORS: J. Sort, F. Garcia, V. Baltz, S. Auffret, B. Rodmacq, M. Fraune, G. Guntherodt, M. D. Baro, J. Nogues, B. Dieny
TITLE: "Exchange bias effects in systems with perpendicular-to-plane magnetic anisotropy"
TYPE OF PRESENTATION: INVITED
CONFERENCE: 49th MMM Conference
PUBLICATION:
MEETING PLACE: Jacksonville, Florida, USA
YEAR: 2004

18- AUTHORS: V. Skumryev, S. Syoyanov, Y. Zhang, G. Hadjipanayis, D. Givord, J. Sort, S. Suriñach, J. Muñoz, M. D. Baró, J. Nogués
TITLE: "Overcoming Thermal Fluctuations in Ferromagnetic Nanostructures Using Exchange Bias"
TYPE OF PRESENTATION: INVITED
CONFERENCE: International Conference on Fine Particle Magnetism 2004
PUBLICATION:
MEETING PLACE: London, England
YEAR: 2004

19- AUTHORS: J. Sort, J. Nogués, S. Suriñach, J. S. Muñoz, I. Margiolaki, A. Fitch, M. Wojcik, E. Jedryka, S. Nadolski, A. Zhilyaev, M.D. Baró
TITLE: Microstructure, phase transformations, mechanical and magnetic properties of disordered cobalt
TYPE OF PRESENTATION: INVITED
CONFERENCE: ISMANAM 2005
PUBLICATION:
MEETING PLACE: Paris, France
YEAR: 2005

20- AUTHORS: J. Sort
TITLE: Exchange bias effects in multilayer systems with perpendicular magnetic anisotropy
TYPE OF PRESENTATION: INVITED
CONFERENCE: Seminario Invitado en Argonne National Laboratory
PUBLICATION:
MEETING PLACE: Argonne (USA)
YEAR: 2005

21- AUTHORS: J. Nogues, J. Sort, A. Hoffmann, S. H. Chung, K. Buchanan, M. Grimsditch, M. D. Baró, B. Dieny
TITLE: Exchange biased vortices
TYPE OF PRESENTATION: INVITED
CONFERENCE: XXVIII Encontro Nacional de Física da Matéria Condensada
PUBLICATION:
MEETING PLACE: Santos, Brazil

YEAR: 2005

22- AUTHORS: D. Givord, C. Macovei, F. Ingwiller, V. M. T. S. Barthem, J. Nogués, V. Skumryev, J. Sort

TITLE: Exchange coupled nanostructured magnetic materials

TYPE OF PRESENTATION: INVITED

CONFERENCE: Mater, materials and devices (MMD 2005)

PUBLICATION:

MEETING PLACE: Genova, Italy

YEAR: 2005

23- AUTHORS: J. Sort, A. Hoffmann, S.H. Chung, K. Buchanan, G. Salazar, M. Grimsditch, M.D. Baró, B. Dieny, J. Nogués

TITLE: Exchange biased vortices in lithographed ferromagnetic-antiferromagnetic dots

TYPE OF PRESENTATION: INVITED

CONFERENCE: XIV International Materials Research Congress

PUBLICATION:

MEETING PLACE: Cancún, Mexico

YEAR: 2005

24- AUTHORS: M. Gich, A. Roig, J. Sort, C. Frontera, M. Popocivi, V. Skumryev, W.A.A. Macedo, H.R. Rechenberg, E. Molins, J. Nogués

TITLE: Large room temperature coercivity in ϵ -Fe₂O₃ nanoparticles

TYPE OF PRESENTATION: INVITED

CONFERENCE: International Conference on Composites and NanoEngineering, ICCE-12

PUBLICATION:

MEETING PLACE: Tenerife, Spain

YEAR: 2005

25- AUTHORS: J. Sort

TITLE: Exchange bias in Ferromagnetic-Antiferromagnetic Nanostructures

TYPE OF PRESENTATION: INVITED

CONFERENCE: US-Spain workshop on nanomaterials

PUBLICATION:

MEETING PLACE: Segovia, Spain

YEAR: 2005

26- AUTHORS: J. Sort, S. Brück, M.D. Baró, S. Suriñach, G. Salazar-Álvarez, V. Baltz, B. Dieny, J. Nogués

TITLE: Exploiting exchange bias length scales to fully tailor double-shifted hysteresis loops

TYPE OF PRESENTATION: INVITED

CONFERENCE: IV Reunión Nacional de física del estado sólido

PUBLICATION:

MEETING PLACE: Alicante, Spain

YEAR: 2006

27- AUTHORS: J. Sort, A. Concustell, E. Menéndez, S. Suriñach, K. V. Rao, J. Farran, S. C. Deevi, J. Nogués, M. D. Baró

TITLE: Arrays of Micron and Submicron Magnetic Structures Prepared by Nanoindentation of Non-Magnetic Substrates

TYPE OF PRESENTATION: INVITED

CONFERENCE: International Symposium on Metastable, Mechanically Alloyed and Nanocrystalline Materials, ISMANAM 2006

PUBLICATION:

MEETING PLACE: Warsaw, Poland

YEAR: 2006

28- AUTHORS: J. Nogués, J. Sort, A. Hoffmann, K. S. Buchanan, S. H. Chung, M. Grimsditch, V. Novosad, G. Salazar-Alvarez, M. D. Baró, B. Dieny

TITLE: New asymmetric reversal mode in ferromagnetic-antiferromagnetic dots due to imprinted displaced vortices

TYPE OF PRESENTATION: INVITED

CONFERENCE: Internacional Conference on Magnetism

PUBLICATION:

MEETING PLACE: Kyoto, Japan

YEAR: 2006

29- AUTHORS: G. Salazar-Alvarez, J. Sort, A. Uheida, M. Muhammed, S. Suriñach, M.D. Baró, J. Nogués

TITLE: Enhancing the superparamagnetic blocking temperature of nanoparticles with bi-magnetic core-shell structures

TYPE OF PRESENTATION: INVITED

CONFERENCE: Complex oxide materials for new technologies (symposium K of the European MRS Fall Meeting)

PUBLICATION:

MEETING PLACE: Warsaw, Poland

YEAR: 2006

30- AUTHORS: J. Sort

TITLE: Magnetization reversal in micron and submicron dots composed of ferromagnetic-antiferromagnetic bilayers

TYPE OF PRESENTATION: INVITED

CONFERENCE: International Workshop on Nanomagnetism

PUBLICATION:

MEETING PLACE: Coma-Ruga

YEAR: 2006

31- AUTHORS: J. Nogués, J. Sort, V. Langlais, V. Skumryev, S. Suriñach, J.S. Muñoz, M.D. Baró

TITLE: Exchange bias in nanostructures: at the heart of spintronic devices

TYPE OF PRESENTATION: INVITED

CONFERENCE: 6th European Conference on Magnetic Sensors and Actuators

PUBLICATION:

MEETING PLACE: Bilbao

YEAR: 2006

32- AUTHORS: J. Nogués, G. Salazar-Alvarez, J. Sort, A. Uheida, M. Muhammed, S. Suriñach, M.D. Baró

TITLE: Enhancing the Superparamagnetic Blocking Temperature of Ferrimagnetic Oxide Nanoparticles with Bi-Magnetic Core-Shell Structures

TYPE OF PRESENTATION: INVITED

CONFERENCE: 14th Int. Conference on Composites and Nano-engineering

PUBLICATION:

MEETING PLACE: Boulder (USA)

YEAR: 2006

33- AUTHORS: J. Nogués, J. Sort, S. Brück, A. Hoffmann, K.S. Buchanan, G. Salazar-Alvarez, V. Baltz, S.H. Chung, V. Novosad, S. Suriñach, J. S. Muñoz, B. Dieny, M. D. Baró

TITLE: Control of the hysteresis loops in ferromagnetic-antiferromagnetic systems by imprinting different magnetization states in the antiferromagnet

TYPE OF PRESENTATION: INVITED

CONFERENCE: Joint European Magnetic Symposia 2006

PUBLICATION:

MEETING PLACE: San Sebastián, Spain

YEAR: 2006

34- AUTHORS: J. Sort

TITLE: Exchange biased magnetic vortices

TYPE OF PRESENTATION: INVITED

CONFERENCE: Invited Seminar at the Forschungszentrum Rossendorf EV, Inst. Ion Beam Phys. & Mat. Res.

PUBLICATION:

MEETING PLACE: Rossendorf, Germany

YEAR: 2006

35- AUTHORS: J. Sort, K.S. Buchanan, M. Grimsdicht, S.-H. Chung, V. Novosad, A. Hoffmann, G. Salazar-Alvarez, M. D. Baró, B. Dieny, J. Nogués

TITLE: Controlling magnetic vortices through exchange bias

TYPE OF PRESENTATION: INVITED

CONFERENCE: Joint European Magnetic Symposia 2006

PUBLICATION:

MEETING PLACE: San Sebastián

YEAR: 2006

36- AUTHORS: J. Nogués, G. Salazar-Alvarez, J. Sort, A. Uheida, M. Muhammed, S. Suriñach, M.D. Baró

TITLE: Tuning of the superparamagnetic blocking temperature of gamma-Fe₂O₃ nanoparticles in bi-magnetic core-shell structures

TYPE OF PRESENTATION: INVITED

CONFERENCE: Eighth International Workshop on Non-Crystalline Solids

PUBLICATION:

MEETING PLACE: Gijón

YEAR: 2006

37- AUTHORS: J. Sort, A. Concustell, E. Menéndez, S. Suriñach, K. V. Rao, S. C. Deevi, J. Nogués and M. D. Baró

TITLE: Periodic Arrays of Micron and Submicron Magnetic Structures Prepared by Nanoindentation of a Non-magnetic Intermetallic Compound

TYPE OF PRESENTATION: INVITED

CONFERENCE: III Workshop on Metastable and Nanocrystalline Materials - Nanomat 2006

PUBLICATION:

MEETING PLACE: Río de Janeiro, Brazil

YEAR: 2006

38- AUTHORS: D. Givord, C. Macovei, F. Ingwiller, V.M.T.S. Barthem, J. Nogués, V. Skumryev, J. Sort

TITLE: Exchange coupled nanostructured magnetic materials

TYPE OF PRESENTATION: INVITED

CONFERENCE: III Workshop on Metastable and Nanocrystalline Materials - Nanomat 2006

PUBLICATION:

MEETING PLACE: Río de Janeiro, Brazil

YEAR: 2006

39- AUTHORS: V. Baltz, J. Sort, A. Bollero, S. Landis, B. Rodmacq, B. Dieny

TITLE: Finite size effects on the exchange bias properties of ferromagnetic/antiferromagnetic bilayers

TYPE OF PRESENTATION: INVITED

CONFERENCE: IEEE International Magnetism Conference

PUBLICATION:

MEETING PLACE: San Diego, California, USA

YEAR: 2006

40- AUTHORS: J. Nogués, G. Salazar-Alvarez, J. Sort, A. Uheida, M. Muhammed, S. Suriñach, M. D. Baró

TITLE: Tuning of the superparamagnetic blocking temperature of ϵ -Fe₂O₃ nanoparticles in bi-magnetic core-shell structures

TYPE OF PRESENTATION: INVITED

CONFERENCE: Internacional Open Seminar on Oxide and Nano-magnetics

PUBLICATION:

MEETING PLACE: Tsu, Japan

YEAR: 2006

41- AUTHORS: J. Sort

TITLE: Imprinting domains and/or peculiar spin configurations in antiferromagnets

TYPE OF PRESENTATION: INVITED

CONFERENCE: Invited Seminar at University of California – Davis

PUBLICATION:

MEETING PLACE: Davis, USA

YEAR: 2006

42- AUTHORS: J. Nogués, G. Salazar-Alvarez, J. Sort, S. Suriñach, M. D. Baró

TITLE: Size-dependent exchange bias in inverted core-shell (antiferromagnetic-ferrimagnetic) nanoparticles

TYPE OF PRESENTATION: INVITED

CONFERENCE: Magnetic Nanoparticles: Challenges and Future Prospects

PUBLICATION:

MEETING PLACE: Leiden (Lorentz Center) Netherlands

YEAR: 2007

43- AUTHORS: A Concustell, J. Sort, N Van Steenberge, S Suriñach, and MD Baró
TITLE: Using nanoindentation to investigate the deformation behavior of bulk metallic glasses and nanocomposite materials
TYPE OF PRESENTATION: INVITED
CONFERENCE: ISMANAM 2007
PUBLICATION:
MEETING PLACE: Korfu, Greece
YEAR: 2007

44- AUTHORS: J. Sort
TITLE: Exchange biased vortices in submicron magnetic dots
TYPE OF PRESENTATION: INVITED
CONFERENCE: Department of Energy review meeting of the Center for Nanoscale Materials at Argonne National Laboratory: Scientific Highlight Talk
PUBLICATION:
MEETING PLACE: Argonne, USA
YEAR: 2007

45- AUTHORS: J. Nogués, J. Sort, V. Langlais, V. Skumryev, S. Suriñach, M.D. Baró
TITLE: Exchange bias in nanostructures: at the heart of spintronic devices
TYPE OF PRESENTATION: INVITED
CONFERENCE: 17th International Vacuum Congress
PUBLICATION:
MEETING PLACE: Stockholm, Sweden
YEAR: 2007

46- AUTHORS: J. Sort, A. Hoffmann, K. S. Buchanan, B. Rodmacq?, M. Miron, G. Salazar-Álvarez, E. Menéndez, V. Novosad, P. Gambardella, A. Weber, L. Heyderman, M.D. Baró, B. Dieny, J. Nogués
TITLE: Controlling magnetic vortices in circular and elliptical dots using exchange bias
TYPE OF PRESENTATION: INVITED
CONFERENCE: 52nd Conference on Magnetism and Magnetic Materials
PUBLICATION:
MEETING PLACE: Tampa, USA
YEAR: 2007

47- AUTHORS: A. Hoffmann, J. Sort, K.S. Buchanan, K.Y. Guslienko, G. Salazar-Alvarez, E. Menendez, S.H. Chung, V. Novosad, M. Grimsditch, J.E. Pearson, A. Bollero, M.D. Baró, M. Miron, B. Rodmacq, B. Dieny, J. Nogués
TITLE: Exchange biased vortices
TYPE OF PRESENTATION: INVITED
CONFERENCE: IEEE Magnetic Multilayers 2007
PUBLICATION:
MEETING PLACE: Perth, Australia
YEAR: 2007

48- AUTHORS: J. Sort, E. Menéndez, S. Suriñach, M. D. Baró, J. Nogués
TITLE: Nous materials per a l'enregistrament magnètic d'alta densitat

TYPE OF PRESENTATION: INVITED

CONFERENCE: Jornada de Nanotecnologia de l'Institut d'Estudis Catalans

PUBLICATION:

MEETING PLACE: Barcelona, Spain

YEAR: 2007

49- AUTHORS: J. Sort, E. Menedez, M.O. Leidke. T. Strache, J. Fassbender, T. Gemming, A. Weber, L.J. Heyderman, S. Suriñach, A. Concustell, K.V. Rao, S.C. Deevi, M.D. Baró, J. Nogués

TITLE: Micro- and nanoscale patterning of paramagnetic FeAl alloys by means of nanoindentation or selective ion irradiation

TYPE OF PRESENTATION: INVITED

CONFERENCE: First Workshop on Nanolithography and their applications

PUBLICATION:

MEETING PLACE: Zaragoza, Spain

YEAR: 2007

50- AUTHORS: J. Nogués, G. Salazar-Alvarez, A. Lopez-Ortega, J. Sort, S. Suriñach, M.D. Baró

TITLE: Exchange bias in inverted AFM core/FM shell nanoparticles

TYPE OF PRESENTATION: INVITED

CONFERENCE: Workshop on Recent Trends on Nanomagnetism

PUBLICATION:

MEETING PLACE: Heverlee, The Netherlands

YEAR: 2008

51- AUTHORS: J. Sort

TITLE: Direct generation of nanoscale ferromagnetic dots by selective ion irradiation of paramagnetic FeAl alloy and austenitic stainless steel.

TYPE OF PRESENTATION: INVITED

CONFERENCE: Invited Seminar at MINATEC (Grenoble)

PUBLICATION:

MEETING PLACE: Grenoble, France

YEAR: 2008

52- AUTHORS: E. Menedez, J. Sort, M.O. Liedke, J. Fassbender, T. Gemming, A. Weber, L.J. Heyderman, S. Suriñach, A. Concustell, K.V. Rao, S.C. Deevi, M.D. Baró, J. Nogués

TITLE: Micro-/nano-scale magnetic patterning of paramagnetic FeAl intermetallic alloys

TYPE OF PRESENTATION: INVITED

CONFERENCE: Winter School – Women in Nano

PUBLICATION:

MEETING PLACE: Krannjska Gora, Slovenia

YEAR: 2008

53- AUTHORS: J. Sort

TITLE: Using nanoindentation to investigate the mechanical behaviour of metallic glasses and nanocomposite materials

TYPE OF PRESENTATION: INVITED

CONFERENCE: Invited Seminar at the Universidade Federal de São Carlos

PUBLICATION:

MEETING PLACE: São Carlos, Brazil
YEAR: 2008

54- AUTHORS: E. Menendez, J. Sort, M.O. Liedke, T. Strache, J. Fassbender, W. Möller, T. Gemming, A. Weber, L.J. Heyderman, S. Suriñach, S.C. Deevi, K.V. Rao, J. Sommerlatte, K. Nielsch, M.D. Baró, J. Nogués
TITLE: Direct nanoscale magnetic lithography in on FeAl alloys by means of ion irradiation
TYPE OF PRESENTATION: INVITED
CONFERENCE: Trends in Nanotechnology
PUBLICATION:
MEETING PLACE: Oviedo, Spain
YEAR: 2008

55- AUTHORS: J. Sort
TITLE: Using nanoindentation to investigate the mechanical behaviour of metallic glasses and nanocomposite materials
TYPE OF PRESENTATION: INVITED
CONFERENCE: Invited Seminar at the Universidade Federal de São Carlos
PUBLICATION:
MEETING PLACE: São Carlos, Brazil
YEAR: 2008

56- AUTHORS: J. Sort, J. Fornell, S. Suriñach, M. D. Baró
TITLE: Caracterización de las propiedades mecánicas de vidrios metálicos mediante nanoindentación
TYPE OF PRESENTATION: INVITED
CONFERENCE: Reunión de Nanomecánica y nanoindentación
PUBLICATION:
MEETING PLACE: Universitat Politècnica de Catalunya, Barcelona, Spain
YEAR: 2008

57- AUTHORS: J. Nogués, V. Skumryev, J. Sort, S. Stoyanov, D. Givord
TITLE: Exchange-bias stabilized magnetism in Co nanoparticles
TYPE OF PRESENTATION: INVITED
CONFERENCE: International Conference on Clusters on Surfaces
PUBLICATION:
MEETING PLACE: Rostock, Germany
YEAR: 2008

58- AUTHORS: J. Sort, E. Menedez, M.O. Liedke, T. Strache, J. Fassbender, W. Möller, T. Gemming, A. Weber, L.J. Heyderman, S. Suriñach, K.V. Rao, S.C. Deevi, M.D. Baro, J. Nogués
TITLE: Magnetic lithography on paramagnetic FeAl alloys by selective ion irradiation
TYPE OF PRESENTATION: INVITED
CONFERENCE: International Conference on Nanostructured Materials - NANO2008
PUBLICATION:
MEETING PLACE: Rio de Janeiro, Brazil
YEAR: 2008

59- AUTHORS: J. Sort

TITLE: Mechanical characterization of metallic glasses and nanocomposite materials using nanoindentation

TYPE OF PRESENTATION: INVITED

CONFERENCE: Invited Seminar at the Universitat Politècnica de Catalunya (UPC - Campus de la Mediterrània)

PUBLICATION:

MEETING PLACE: Castelldefels, Spain

YEAR: 2008

60- AUTHORS: E. Menedez, J. Sort, M.O. Liedke, T. Strache, J. Fassbender, W. Möller, T.

Gemming, A. Weber, L.J. Heyderman, S. Suriñach, K.V. Rao, S.C. Deevi, M.D. Baro, J. Nogués

TITLE: Nano-scale magnetic patterning of paramagnetic FeAl intermetallic alloys by ion irradiation

TYPE OF PRESENTATION: INVITED

CONFERENCE: International Conference on Ion Beam Modification of Materials

PUBLICATION:

MEETING PLACE: Dresden, Germany

YEAR: 2008

61- AUTHORS: I.B. Golosovsky, G. Salazar-Alvarez, J. Sort, J. Nogués, M.A. Gonzalez

TITLE: Diffraction studies of the core-shell system

TYPE OF PRESENTATION: INVITED

CONFERENCE: Petersburg Nuclear Physics Institute Winter School

PUBLICATION:

MEETING PLACE: St. Petersburg, Russia

YEAR: 2008

62- AUTHORS: E. Menéndez, J. Sort, M.O. Liedke, T. Strache, J. Fassbender, W. Möller, T.

Gemming, A. Weber, L.J. Heyderman, S. Suriñach,, S.C. Deevi, K.V. Rao, J. Sommerlatte,

K. Nielsch, J. Nogués, M.D. Baró

TITLE: Magnetic lithography on FeAl alloys by means of ion irradiation

TYPE OF PRESENTATION: INVITED

CONFERENCE: International Symposium on Metastable and Mechanically Alloyed Materials

PUBLICATION:

MEETING PLACE: Buenos Aires, Argentina

YEAR: 2008

63- AUTHORS: I.B. Golosovsky, G. Salazar-Alvarez, J. Sort, J. Nogués, M.A. Gonzalez

TITLE: Diffraction studies of the novel heterogenic nanosystems 'core-shell' with 'exchange bias'

TYPE OF PRESENTATION: INVITED

CONFERENCE: Low Dimensional Systems International Meeting

PUBLICATION:

MEETING PLACE: Rostov-on-Don, Russia

YEAR: 2008

64- AUTHORS: J. Nogués, A. López-Ortega, M. Estrader, G. Salazar-Alvarez, J. Sort, S.

Suriñach, M.D. Baró

TITLE: Exchange bias in inverted antiferromagnetic-ferrimagnetic core -shell nanoparticles

TYPE OF PRESENTATION: INVITED

CONFERENCE: The Villa Conference of Complex Oxide Heterostructures
PUBLICATION:
MEETING PLACE: Orlando, USA
YEAR: 2008

65- AUTHORS: A. Hoffmann, J. Sort, K.S. Buchanan, K.Y. Guslienko, G. Salazar-Alvarez, E. Menendez, S.H. Chung, V. Novosad, M. Grimsditch, J.E. Pearson, A. Bollero, M.D. Baro, M. Miron, B. Rodmaq, B. Dieny, J. Nogués
TITLE: Exchange biased vortices
TYPE OF PRESENTATION: INVITED
CONFERENCE: Asian Magnetism Conference
PUBLICATION:
MEETING PLACE: Busan, North Korea
YEAR: 2008

66- AUTHORS: A. Hoffmann, J. Sort, K.S. Buchanan, K.Y. Guslienko, G. Salazar-Alvarez, E. Menendez, S.H. Chung, V. Novosad, M. Grimsditch, J.E. Pearson, S.D. bader, A. Bollero, M.D. Baro, M. Miron, B. Rodmaq, B. Dieny, J. Nogués
TITLE: Exchange biased vortices
TYPE OF PRESENTATION: INVITED
CONFERENCE: International Workshop on Vortex Dynamics in Confined Magnetic Thin Films
PUBLICATION:
MEETING PLACE: Busan, North Korea
YEAR: 2008

67- AUTHORS: J. Nogués, G. Salazar-Alvarez, A. Lopez-Ortega, J. Sort, S. Suriñach, M.D. Baro
TITLE: Exchange bias in inverted AFM-core/FM-shell nanoparticle
TYPE OF PRESENTATION: INVITED
CONFERENCE: First Nordic Workshop on Spintronics and Nanomagnetism
PUBLICATION:
MEETING PLACE: Gimo, Sweden
YEAR: 2008

68- AUTHORS: J. Sort
TITLE: Comparative study of the thermal, elastic and mechanical properties of newly developed rare-earth bulk metallic glasses
TYPE OF PRESENTATION: INVITED
CONFERENCE: "Jornada sobre vidres metàl·lics i materials amorfs" at the Universitat Politècnica de Catalunya (UPC - Campus de la Mediterrània)
PUBLICATION:
MEETING PLACE: Castelldefels, Spain
YEAR: 2009

69- AUTHORS: J. Fornell, A. Concustell, S. Suriñach, W. H. Li, N. Cuadrado, A. Gebert, M. D. Baró, J. Sort
TITLE: Mechanical behaviour of Ti-Zr-Ni-Cu-Be bulk metallic glass
TYPE OF PRESENTATION: INVITED
CONFERENCE: ISMANAM 2009
PUBLICATION:

MEETING PLACE: Beijing, China
YEAR: 2009

70- AUTHORS: J. Sort, J. Fornell, S. Suriñach, M. D. Baró
TITLE: Comparative study of the thermal, elastic and mechanical properties of various families of metallic glasses
TYPE OF PRESENTATION: INVITED
CONFERENCE: 11th International Conference on Advanced Materials (ICAM 2009)
PUBLICATION:
MEETING PLACE: Rio de Janeiro, Brazil
YEAR: 2009

71- AUTHORS: J. Sort, E. Menéndez, A. Varea, F. Pi, S. Suriñach, M. D. Baró, J. Nogués
TITLE: Nanoscale Magnetic Lithography on FeAl alloys induced by nanoindentation and ion irradiation
TYPE OF PRESENTATION: INVITED
CONGRESS: 11th International Conference on Advanced Materials (ICAM 2009)
PUBLICATION:
MEETING PLACE: Rio de Janeiro, Brazil
YEAR: 2009

72- AUTHORS: J. Nogués, I. Golosovski, G. Salazar-Álvarez, A. López-Ortega, M. Estrader, J. Sort, S. Suriñach, M. D. Baró
TITLE: Exchange bias and proximity effects in 'inverted' antiferromagnetic/ferrimagnetic core/shell nanoparticles
TYPE OF PRESENTATION: INVITED
CONGRESS: Nano2009: Perspectives in Nanoscience and Nanotechnology
PUBLICATION:
MEETING PLACE: San Sebastian, Spain
YEAR: 2009

73- AUTHORS: A. López-Ortega, M. Estrader, D. Tobia, E. Winkler, G. Salazar-Alvarez, I. Golosovsky, J. Sort, S. Suriñach, R.D. Zysler, M.D. Baró, J. Nogués
TITLE: Size dependent magnetic properties of bi-magnetic "core-shell" passivated MnO nanoparticles
TYPE OF PRESENTATION: INVITED
CONGRESS: International Conference in Magnetism
PUBLICATION:
MEETING PLACE: Karlsruhe (Germany)
YEAR: 2009

74- AUTHORS: M. D. Baró, J. Fornell, S. Suriñach, Weihuo Li, A. Gebert, J. Sort
TITLE: Dissimilar mechanical properties between various families of bulk metallic glasses
TYPE OF PRESENTATION: INVITED
CONGRESS: 2010 TMS Annual Meeting & Exhibition
PUBLICATION:
MEETING PLACE: Seattle, USA
YEAR: 2010

75- AUTHORS: J. Nogués, A. López-Ortega, M. Estrader, D. Tobia, E. Winkler, S. Estradé, I. Golosovsky, J. Sort, G. Salazar-Alvarez, J. D. Ardisson, W. A. A. Macedo, K. L. Krycka, J. A. Borchers, J. Arbiol, F. Peiró, S. Suriñach, R.D. Zysler, M.D. Baró
TITLE: Exchange bias, size and proximity effects in inverted, antiferromagnetic (AFM)/ferrimagnetic (FiM), core/shell nanoparticles
TYPE OF PRESENTATION: INVITED
CONGRESS: 55th Annual conference on magnetism and magnetic materials (MMM2010)
PUBLICATION:
MEETING PLACE: Atlanta, USA
YEAR: 2010

76- AUTHORS: J. Sort, J. Fornell, A. Varea, E. Rossinyol, L. F. Bonavina, C. Souza, W. J. Botta, C. Bolfarini, C. S. Kiminami, S. Suriñach, M. D. Baró, J. Nogués
TITLE: Indentation-Induced Nanocrystallization of a Metallic Glass: Towards a Novel Route for Magnetic Patterning
TYPE OF PRESENTATION: INVITED
CONGRESS: ISMANAM 2010
PUBLICATION:
MEETING PLACE: Zürich, Suiza
YEAR: 2010

77- AUTHORS: E. Pellicer, A. Varea, S. Pané, B. J. Nelson, S. Suriñach, M. D. Baró, J. Nogués, J. Sort
TITLE: Aleaciones de CuNi nanocristalinas con excelentes propiedades mecánicas y comportamiento magnético ajustable
TYPE OF PRESENTATION: INVITED
CONGRESS: Jornada sobre "Nanotecnología en biomateriales y recubrimientos". Organiza S.T. Corrosió i Protecció, UB. Colegio Oficial de Químicos de Cataluña
PUBLICATION:
MEETING PLACE: Barcelona
YEAR: 2010

78- AUTHORS: J. Nogués, A. López-Ortega, D. Tobia, E. Winkler, S. Estradé, I. Golosovsky, M. Estrader, J. Sort, G. Salazar-Alvarez, J. Arbiol, F. Peiró, S. Suriñach, R. D. Zysler, M.D. Baró
TITLE: Size effects in surface passivated antiferromagnetic MnO nanoparticles: exchange bias, proximity effects, size dependent passivation layers, enhanced Neel temperature
TYPE OF PRESENTATION: INVITED
CONGRESS: 7th International Conference on Fine Particle Magnetism (ICFPM-2010)
PUBLICATION:
MEETING PLACE: Uppsala, Suecia
YEAR: 2010

79- AUTHORS: J. Nogués, G. Salazar-Álvarez, J.J. Kavich, M. Tanase, A. Mugarza, S. Stepanow, A. Potenza, H. Marchetto, S.S. Dhesi, V. Baltz, A. Weber, L.J. Heyderman, A. K. Petford-Long, O. Heinonen, M.D. Baró, B. Dieny, K.S. Buchanan, A. Hoffmann, P. Gambardella, J. Sort
TITLE: Controlling magnetic vortices in circular dots using exchange bias
TYPE OF PRESENTATION: INVITED
CONGRESS: NordicSpin
PUBLICATION:

MEETING PLACE: Gimo Castle (Gimo Herrgård), Suecia
YEAR: 2010

80- AUTHORS: A. López-Ortega, M. Estarder, G. Salazar-Alvarez, J. Sort, S. Suriñach, M. D. Baró, J. Nogués
TITLE: Exchange bias in inverted, antiferromagnetic (AFM)|Ferrimagnetic (FiM), core|shell nanoparticles
TYPE OF PRESENTATION: INVITED
CONGRESS: Collaborative Conference on Interacting Nanostructures
PUBLICATION:
MEETING PLACE: San Diego, USA
YEAR: 2010

81- AUTHORS: J. Sort
TITLE: Mechanical properties of Ti-based glassy and nanocomposite alloys
TYPE OF PRESENTATION: invited
CONGRESS: 1st BioTiNet Workshop entitled "Advanced Methods for Materials Characterization"
PUBLICATION:
MEETING PLACE: Ljubljana, Slovenia
YEAR: 2011

82- AUTHORS: M. Estrader, A. López-Ortega, T. D. Winkler, S. Estradé, I. Golosovski, J. Sort, G. Salazar-Álvarez, P. Peiró, S. Suriñach, R. D. Zysler, M. D. Baró, J. Nogués
TITLE: Exchange coupling in inverted antiferromagnetic/ferrimagnetic core/shell nanoparticles
TYPE OF PRESENTATION: invited
CONGRESS: International Conference on Atomically Controlled Surfaces, Interfaces and Nanostructures (ACSIN-11)
PUBLICATION:
MEETING PLACE: St. Petersburg, Rússia
YEAR: 2011

83- AUTHORS: E. Pellicer, A. López-Ortega, M. Cabo, M. Estrader, J. Sort, Ll. Yedra, S. Estradé, S. Suriñach, Z. Saghi, P.A. Midgley, F. Peiró, M.D. Baró, J. Nogués
TITLE: Ferrimagnetic $\text{Fe}_x\text{Co}_{(2-x)}\text{O}_4$ nanostructures embedded in highly ordered antiferromagnetic Co_3O_4 mesoporous templates
TYPE OF PRESENTATION: invited
CONGRESS: European Materials Research Society Fall Meeting (E-MRS 2011)
PUBLICATION:
MEETING PLACE: Warsaw, Polònia
YEAR: 2011

84- AUTHORS: J. Sort, A.Varea, L. F. Bonavina, C. Souza, W. J. Botta, C. Bolfarini, C. S. Kiminami, S. Suriñach, M. D. Baró, J. Nogués
TITLE: Magnetic Lithography based on Indentation-Induced Nanocrystallization of Metallic Glasses
TYPE OF PRESENTATION: invited
CONGRESS: 5th INTERNATIONAL WORKSHOP ON AMORPHOUS AND NANOSTRUCTURED MAGNETIC MATERIALS - ANMM'2011
PUBLICATION:

MEETING PLACE: Iasi, Romania
YEAR: 2011

85- AUTHORS: J. Sort, J. Fornell, A. Varea, E. Rossinyol, L. F. Bonavina, C. Souza, W. J. Botta, C. Bolfarini, C. S. Kiminami, S. Suriñach, M. D. Baró, J. Nogués
TITLE: Nanoindentation-induced crystallization of Zr-based and Fe-based metallic glasses
TYPE OF PRESENTATION: invited
CONGRESS: The 14th International Conference on Rapidly Quenched and Metastable Materials
PUBLICATION:
MEETING PLACE: Salvador de Bahia, Brasil
YEAR: 2011

86- AUTHORS: J. Nogués, A. López-Ortega, M. Estrader, D. Tobia, E. Winkler, S. Estradé, I. Golosovsky, J. Sort, G. Salazar-Alvarez, F. Peiró, S. Suriñach, R.D. Zysler, M.D. Baró
TITLE: Novel structural and magnetic effects in passivated antiferromagnetic transition metal monoxides: inverted antiferromagnetic/ferrimagnetic, core/shell nanoparticles
TYPE OF PRESENTATION: invited
CONGRESS: The 19th Annual International Conference on Composites/Nano-engineering
PUBLICATION:
MEETING PLACE: Shanghai, Xina
YEAR: 2011

87- AUTHORS: A. Varea, E. Pellicer, K.M. Sivareman, S. Pané, B.J. Nelson, S. Suriñach, M.D. Baró, J. Nogués, J. Sort
TITLE: Advanced magnetic lithography methods based on nanoindentation and ion irradiation
TYPE OF PRESENTATION: invited
CONGRESS: BNC-b Research Meeting
PUBLICATION:
MEETING PLACE: Bellaterra, Spain
YEAR: 2011

88- AUTHORS: E. Pellicer, M. Estrader, M. Cabo, A. López-Ortega, J. Sort, E. Rossinyol, S. Suriñach, M. D. Baró, J. Nogués
TITLE: Ordered mesoporous magnetic materials
TYPE OF PRESENTATION: invited
CONGRESS: Collaborative Conference on 3D & Materials Research (3DMR)
PUBLICATION:
MEETING PLACE: Jeju, South Korea
YEAR: 2011

89- AUTHORS: A. López-Ortega, M. Estrader, G. Salazar-Alvarez, S. Estradé, D. Tobia, E. Winkler, R.K. Dumas, I.V. Golosovsky, J. Sort, F. Peiró, S. Suriñach, R.D. Zysler, M.D. Baró, J. Nogués
TITLE: Enhanced Magnetic Properties in Bi-Magnetic Core|Shell Nanoparticles
TYPE OF PRESENTATION: invited
CONGRESS: ISMANAM 2011
PUBLICATION:
MEETING PLACE: Gijón, Spain

YEAR: 2011

90- AUTHORS: J. Nogués, G. Salazar-Álvarez, J.J. Kavich, M. Tanase, A. Mugarza, S. Stepanow, V. Baltz, A. Weber, L.J. Heyderman, A.K. Petford-Long, O. Heinonen, M.D. Baró, B. Dieny, K.S. Buchanan, A. Hoffmann, P. Gambardella, J. Sort

TITLE: Controlling Magnetic Vortices Using Exchange Bias

TYPE OF PRESENTATION: invited

CONGRESS: Spin Waves 2011 conference

PUBLICATION:

MEETING PLACE: St. Petersburg, Russia

YEAR: 2011

91- AUTHORS: M. Estrader, A. López-Ortega, G. Salazar-Alvarez, S. Estradé, J. Sort, F. Peiró, S. Suriñach, M.D. Baró, J. Nogués

TITLE: Bi-magnetic Core|Shell nanoparticles

TYPE OF PRESENTATION: invited

CONGRESS: Villa Conference on Interactions Among Nanostructures, VCIAN 2011

PUBLICATION:

MEETING PLACE: Las Vegas, USA

YEAR: 2011

92- AUTHORS: J. Sort, J. Fornell, A. Varea, E. Rossinyol, L.z Fernando Bonavina, C. Souza, W. J. Botta, C. Bolfarini, C. S. Kiminami, S. Suriñach, J. Nogués, M. D. Baró

TITLE: Selective nanocrystallization of metallic glasses induced by nanoindentation

TYPE OF PRESENTATION: invited

CONGRESS: TMS 2011

PUBLICATION:

MEETING PLACE: San Diego, California, USA

YEAR: 2011

93- AUTHORS: J. Sort, A. Varea, E. Menéndez, S. Suriñach, A. Concustell, M.D. Baró, E. Pellicer, J. F. López-Barberá, J. Montserrat, E. Lora-Tamayo, J. Nogués

TITLE: Magnetic Lithography based on nanoindentation and ion irradiation

TYPE OF PRESENTATION: invited

CONGRESS: Asamblea Nacional del Club Español de Magnetismo

PUBLICATION:

MEETING PLACE: Barcelona

YEAR: 2012

94- AUTHORS: J. Fornell, S. González, E. Rossinyol, E. Pellicer, S. Suriñach, D. Louzguine, A. Inoue, J. Sort, J. Nogués, M.D. Baró

TITLE: Evolution of the mechanical, magnetic and anticorrosion behavior of Fe-Co-B-Si-Nb bulk metallic glass during thermally-induced devitrification

TYPE OF PRESENTATION: invited

CONGRESS: TMS 2012

PUBLICATION:

MEETING PLACE: Orlando, USA

YEAR: 2012

95- AUTHORS: A. López-Ortega, M. Estrader, G. Salazar-Alvarez, S. Estradé, I.V. Golosovsky, R.K. Dumas, D.J. Keavney, M. Vasilakaki, K. N. Trohidou, J. Sort, F. Peiró, S. Suriñach, M.D. Baró, J. Nogués

TITLE: Heterostructured bi-magnetic soft-hard core-shell nanoparticles

TYPE OF PRESENTATION: invited

CONGRESS: JSAP-OSA Joint Symposia (73rd annual meeting)

PUBLICATION:

MEETING PLACE: Matsuyama (Japan)

YEAR: 2012

96- AUTHORS: E. Pellicer, J. Sort

TITLE: Magnetic, thermal and mechanical properties of nanostructured materials

TYPE OF PRESENTATION: invited

CONGRESS: Workshop on "Magnetic Actuators for Quantitative analyses"

PUBLICATION:

MEETING PLACE: Zürich (Switzerland)

YEAR: 2012

97- AUTHORS: E. Pellicer, S. Pané, A. Varea, K. M. Sivaraman, S. Fusco, S. Suriñach, M. D. Baró, J. Nogués, B. J. Nelson, J. Sort

TITLE: Cu-Ni electrodeposition: thin films, microcolumns and nanopillars

TYPE OF PRESENTATION: invited

CONGRESS: Workshop: "Surface modification by electrochemical methods: Synthesis and applications of novel nanomaterials"

PUBLICATION:

MEETING PLACE: Leuven (Belgium)

YEAR: 2012

98- AUTHORS: E. Pellicer, S. Pané, K. M. Sivaraman, S. Schuerle, M. A. Zeeshan, S. Suriñach, N. Tintaru, H. Cesiulis, M. D. Baró, J. Nogués, B. J. Nelson, J. Sort

TITLE: Magnetic properties of electrodeposited alloys

TYPE OF PRESENTATION: invited

CONGRESS: Workshop: "Surface modification by electrochemical methods: Synthesis and applications of novel nanomaterials"

PUBLICATION:

MEETING PLACE: Leuven (Belgium)

YEAR: 2012

99- AUTHORS: J. Nogués, I.V. Golosovsky, G. Salazar-Alvarez, A. López-Ortega, M.A. González, J. Sort, M. Estrader, S. Suriñach, M.D. Baró

TITLE: Magnetic proximity effect in antiferromagnetic/ferrimagnetic core/shell nanoparticles

TYPE OF PRESENTATION: invited

CONGRESS: VI REUNIÓN de la SOCIEDAD ESPAÑOLA de TÉCNICAS NEUTRÓNICAS (SETN)

PUBLICATION:

MEETING PLACE: Segovia (Spain)

YEAR: 2012

100- AUTHORS: A. Varea, E. Pellicer, S. Pané, B. J. Nelson, S. Suriñach, M. D. Baró, J. Nogués, J. Sort

TITLE: Electrodeposition of Cu, Ni and CuNi nanopillars
TYPE OF PRESENTATION: invited
CONGRESS: ISMANAM 2012
PUBLICATION:
MEETING PLACE: Moscow (Russia)
YEAR: 2012

101- AUTHORS: E. Pellicer, M. Cabo, A. López-Ortega, M. Estrader, E. Rossinyol, J. Sort, S. Suriñach, M. D. Baró, J. Nogués
TITLE: Ordered mesoporous metal oxides nanocomposites for multifunctional applications
TYPE OF PRESENTATION: invited
CONGRESS: ISMANAM 2012
PUBLICATION:
MEETING PLACE: Moscow (Russia)
YEAR: 2012

102- AUTHORS: E. Pellicer, A. López-Ortega, M. Cabo, M. Estrader, E. Rossinyol, J. Sort, L. Yedra, S. Estradé, I. Golosovsky, Z. Saghi, P. A. Midgley, J. D. Prades, A. Suriñach, F. Peiró, M. D. Baró, J. Nogués
TITLE: Ordered exchange coupled ferrimagnetic-antiferromagnetic mesoporous magnetic materials
TYPE OF PRESENTATION: invited
CONGRESS: International Workshop on Nanostructured ceramics and other Nanomaterials (ICWNCN)
PUBLICATION:
MEETING PLACE: Delhi (India)
YEAR: 2012

103- AUTHORS: E. Pellicer, A. López-Ortega, M. Cabo, M. Estrader, E. Rossinyol, J. Sort, L. Yedra, S. Estradé, I. Golosovsky, Z. Saghi, P.A. Midgley, J. D. Prades, S. Suriñach, F. Peiró, M.D. Baró, J. Nogués
TITLE: Tuneable magnetic properties in ordered mesoporous magnetic materials
TYPE OF PRESENTATION: invited
CONGRESS: Third Nordic Workshop on Spintronics and Nanomagnetism
PUBLICATION:
MEETING PLACE: Varberg (Sweden)
YEAR: 2012

104- AUTHORS: E. Pellicer, A. López-Ortega, M. Cabo, M. Estrader, E. Rossinyol, J. Sort, L. Yedra, S. Estradé, I. Golosovsky, Z. Saghi, P. A. Midgley, J. D. Prades, S. Suriñach, F. Peiró, M.D. Baró, J. Nogués
TITLE: Tunable magnetic properties in ordered mesoporous magnetic materials
TYPE OF PRESENTATION: invited
CONGRESS: MRS Spring Meeting
PUBLICATION:
MEETING PLACE: San Francisco (USA)
YEAR: 2012

105- AUTHORS: E. Pellicer, A. López-Ortega, M. Cabo, M. Estrader, E. Rossinyol, J. Sort, L. Yedra, S. Estradé, I. Golosovsky, Z. Saghi, P. A. Midgley, J. D. Prades, S. Suriñach, F. Peiró, M. D. Baró, J. Nogués

TITLE: Tunable magnetic properties in ordered mesoporous magnetic materials

TYPE OF PRESENTATION: invited

CONGRESS: SUDOE Workshop on Nanomagnetism and Spintronics

PUBLICATION:

MEETING PLACE: San Sebastian (Spain)

YEAR: 2012

106- AUTHORS: E. Pellicer, M. Cabo, A. López-Ortega, M. Estrader, E. Rossinyol, J. Sort, S. Suriñach, M. D. Baró, J. Nogués

TITLE: Functional mesoporous nanocast hybrid materials

TYPE OF PRESENTATION: invited

CONGRESS: VII Reunión Grupo Especializado de Estado Sólido

PUBLICATION:

MEETING PLACE: Sevilla (Spain)

YEAR: 2012

107- AUTHORS: A. López-Ortega, M. Estrader, G. Salazar-Álvarez, S. Estradé, D. Tobia, E. Winkler, I.V. Golosovsky, J. Sort, F. Peiró, S. Suriñach, R. D. Zysler, M. D. Baró, J. Nogués

TITLE: Large exchange bias in inverted antiferromagnetic-ferrimagnetic core-shell nanoparticles

TYPE OF PRESENTATION: invited

CONGRESS: International Conference on Research in Condensed Matter Physics– 2012

PUBLICATION:

MEETING PLACE: Chennai (India)

YEAR: 2012

108- AUTHORS: J. Sort

TITLE: Engineered materials for innovative applications in nanomechanics and magnetically-actuated micro-/nano-systems

TYPE OF PRESENTATION: invited

CONGRESS: BCN-b Nanocluster Workshop

PUBLICATION:

MEETING PLACE: Barcelona (Spain)

YEAR: 2012

109- AUTHORS: E. Pellicer, S. González, A. Blanquer, S. Suriñach, M.D. Baró, L. Barrios, E. Ibáñez, C. Nogués, J. Sort

TITLE: Time-dependent mechanical behavior, biodegradability, and cytocompatibility of amorphous $\text{Mg}_{72}\text{Zn}_{23}\text{Ca}_5$ and crystalline $\text{Mg}_{70}\text{Zn}_{23}\text{Ca}_5\text{Pd}_2$ materials

TYPE OF PRESENTATION: invited

CONGRESS: TMS 2013

PUBLICATION:

MEETING PLACE: Texas (USA)

YEAR: 2013

110- AUTHORS: J. Sort, M. Guerrero, E. Menéndez, , J. Fornell, E. Rossinyol, M. Roldan, O. Castell, S. Suriñach, M. D. Baró, A. Vantomme, K. Temst, J. Nogués, E. Pellicer

TITLE: Mesoporous semiconductor 3D ordered architectures prepared by nanocasting: (i) oxide diluted magnetic semiconductor and (ii) photoluminescent antidots

TYPE OF PRESENTATION: keynote

CONGRESS: ISMANAM 2013

PUBLICATION:

MEETING PLACE: Torino (Italy)

YEAR: 2013

111- AUTHORS: E. Pellicer, S. Pané, M. Guerrero, J. Bumjin, M. A. Zeeshan, S. Suriñach, M. D. Baró, J. Nogués, B. J. Nelson, J. Sort

TITLE: Design and Synthesis of Multi-alloy/hybrid 1-D Nanoarchitectures for Magnetic and Biological Applications

TYPE OF PRESENTATION: invited

CONGRESS: ISMANAM 2013

PUBLICATION:

MEETING PLACE: Torino (Italy)

YEAR: 2013

112- AUTHORS: E. Pellicer, M. A. Zeeshan, S. Pané, S. Suriñach, M. D. Baró, J. Nogués, B. J. Nelson, J. Sort

TITLE: Electrodeposited quaternary CoNiReP NWs with large hardness and tunable magnetic response

TYPE OF PRESENTATION: invited

CONGRESS: International Conference on Processing and Manufacturing of Advanced Materials (Thermec 2013)

PUBLICATION:

MEETING PLACE: Las Vegas (USA)

YEAR: 2013

113- AUTHORS: J. Sort, A. Varea, S. Pané, K.M. Sivaraman, M. Guerrero, I. García-Urrutia, J.A. Díez, M.D. Baró, S. Suriñach, J. Nogués, E. García-Lecina, B.J. Nelson, E. Pellicer

TITLE: Nanocrystalline and nanocomposite Ni-rich electrodeposited films with enhanced functional properties

TYPE OF PRESENTATION: invited

CONGRESS: International Conference on Processing and Manufacturing of Advanced Materials (Thermec 2013)

PUBLICATION:

MEETING PLACE: Las Vegas (USA)

YEAR: 2013

114- AUTHORS: M. Guerrero, M.D. Baró, S. Suriñach, M. Roldán, S. Pané, B.J. Nelson, E. García-Lecina, J. Sort, E. Pellicer

TITLE: Electrochemical Synthesis and Photoluminescent Properties of New 3D Hierarchically Porous BiOCl films

TYPE OF PRESENTATION: invited

CONGRESS: International Conference on Processing and Manufacturing of Advanced Materials (Thermec 2013)

PUBLICATION:

MEETING PLACE: Las Vegas (USA)

YEAR: 2013

115- AUTHORS: S. González, E. Pellicer, A. Blanquer, S. Suriñach, M.D. Baró, L.I. Barrios, E. Ibáñez, C. Nogués, J. Sort
TITLE: Biodegradability, mechanical behaviour and cytocompatibility of $\text{Mg}_{72}\text{Zn}_{23}\text{Ca}_5$ and $\text{Mg}_{70}\text{Zn}_{23}\text{Ca}_5\text{Pd}_2$ alloys for implant applications
TYPE OF PRESENTATION: invited
CONGRESS: BIT's 1st Annual World Symposium of Innovative Materials for Therapy-2013
PUBLICATION:
MEETING PLACE: Haikou (Japan)
YEAR: 2013

116- AUTHORS: E. Pellicer, J. Sort
TITLE: Fotoluminiscencia de luz blanca y fotoactivación en estructuras mesoporosas de $\text{SiO}_2@\text{CdS}$: un nuevo material para iluminación de estado sólido
TYPE OF PRESENTATION: invited
CONGRESS: Jornada de Materiales
PUBLICATION:
MEETING PLACE: Barcelona (Spain)
YEAR: 2013

117- AUTHORS: J. Sort
TITLE: Insights on the nanoindentation behavior of nanocrystalline and amorphous alloys
TYPE OF PRESENTATION: invited
CONGRESS: Invited Seminar at EMPA
PUBLICATION:
MEETING PLACE: Thun (Switzerland)
YEAR: 2013

118- AUTHORS: J. Fornell, E. Pellicer, D. Nieto, E. García-Lecina, A. Concustell, S. Suriñach, A. L. Greer, M. D. Baró, J. Sort
TITLE: Structural and mechanical modifications induced on $\text{Cu}_{47.5}\text{Zr}_{47.5}\text{Al}_5$ metallic glass by shot peening and surface laser treatments
TYPE OF PRESENTATION: invited
CONGRESS: TMS 2014 (143rd Annual Meeting)
PUBLICATION:
MEETING PLACE: San Diego (United States)
YEAR: 2014

119- AUTHORS: E. Pellicer, J. Sort
TITLE: Functional porous metal oxides by nanocasting - applications in gas-sensing, magnetism and spintronics
TYPE OF PRESENTATION: invited
CONGRESS: Deutsche Zeolith-Tagung
PUBLICATION:
MEETING PLACE: Paderborn (Germany)
YEAR: 2014

120- AUTHORS: B. Özkale, E. Pellicer, G. Chatzipirpiridis, J. Sort, B.J. Nelson, S. Pané
TITLE: Fabrication of segmented FeCo/Cu nanowires by pulse electroplating
TYPE OF PRESENTATION: invited

CONGRESS: 6th European Pulse Plating Seminar
PUBLICATION:
MEETING PLACE: Neustadt, Austria
YEAR: 2014

121- AUTHORS: B. Özkale, E. Pellicer, M. A. Zeeshan, J. F. López-Barberá, J. Nogués, J. Sort, B. J. Nelson, S. Pané
TITLE: One-pot synthesis of multilayer magnetic metallopolymer nanocomposite by pulsed electroplating
TYPE OF PRESENTATION: invited
CONGRESS: 6th European Pulse Plating Seminar
PUBLICATION:
MEETING PLACE: Neustadt, Austria
YEAR: 2014

122- AUTHORS: E. Pellicer, M. Guerrero, S. Pané, B. J. Nelson, S. Suriñach, M.D. Baró, J. Sort
TITLE: Tailor-made hierarchically porous composite films by electrodeposition: Synthesis and applications
TYPE OF PRESENTATION: invited
CONGRESS: Collaborative Conference on Materials Research (CCMR)
PUBLICATION:
MEETING PLACE: Seoul (South Korea)
YEAR: 2014

123- AUTHORS: J. Sort, E. Menéndez, M. Guerrero, J. Fornell, E. Rossinyol, M. Roldán, O. Castell, S. Suriñach, M. D. Baró, A. Vantomme, K. Temst, J. Nogués, E. Pellicer
TITLE: Semiconductor 3D ordered mesoporous architectures prepared by nanocasting: (i) oxide diluted magnetic semiconductor and (ii) photoluminescent antidots. Prospects and New Challenges
TYPE OF PRESENTATION: invited
CONGRESS: Collaborative Conference on Materials Research (CCMR)
PUBLICATION:
MEETING PLACE: Seoul (South Korea)
YEAR: 2014

124- AUTHORS: S. Pané, M.A. Zeeshan, B. Özkale, G. Chatzipirpiridis, S. Fusco, J. Pokki, A.M. Lindo, B. Jang, S. Schürle, O. Ergeneman, E. Pellicer, J. Sort, B. J. Nelson
TITLE: Electrochemical Processing Technologies for Manufacturing Components in Micro- and Nanorobotic Platforms
TYPE OF PRESENTATION: invited
CONGRESS: INTERNATIONAL WORKSHOP ON MICRO- AND NANOMACHINES
PUBLICATION:
MEETING PLACE: Hannover (Germany)
YEAR: 2014

125- AUTHORS: D. Esqué-de los Ojos, R. Domingo-Roca, J. Zhang, M. Guerrero, E. Pellicer, M.D. Baró, S. Suriñach, J. Sort
TITLE: Berkovich indentation finite element simulations on porous metal/metal oxide composite films and hierarchically porous metallic materials

TYPE OF PRESENTATION: Invited
CONGRESS: FIMPART 2015
PUBLICATION:
MEETING PLACE: Hyderabad (India)
YEAR: 2015

126- AUTHORS: D. Esqué-de los Ojos, M.A. Zeeshan, P. Castro-Hartmann, M. Guerrero, S. Suriñach, M.D. Baró, B.J. Nelson, J. Nogues, S. Pané, E. Pellicer, J. Sort
TITLE: Nanomechanical behavior of amorphous and crystalline CoNiReP electrodeposited nanowires: a comparison with thick films with analogous compositions
TYPE OF PRESENTATION: Invited
CONGRESS: FIMPART 2015
PUBLICATION:
MEETING PLACE: Hyderabad (India)
YEAR: 2015

127- AUTHORS: M. Guerrero, S. Pané, M.D. Baró, S. Suriñach, M. Roldan, J. Sort, E. Pellicer
TITLE: 3D hierarchically porous Cu–BiOCl nanocomposite films: electrochemical synthesis, structural characterization and physical properties
TYPE OF PRESENTATION: Invited
CONGRESS: FIMPART 2015
PUBLICATION:
MEETING PLACE: Hyderabad (India)
YEAR: 2015

128- AUTHORS: I. Golvano-Escobal, S. Suriñach, M.D. Baró, J. Sort, E. Pellicer
TITLE: Synthesis, electrocatalytic and other physic-chemical properties of electrodeposited rhodium-iron: nanoparticles versus porous films
TYPE OF PRESENTATION: Invited
CONGRESS: 2015 Collaborative Conference on 3D Materials Research (CC3DMR)
PUBLICATION:
MEETING PLACE: Busan (South Korea)
YEAR: 2015

129- AUTHORS: M.A. Zeeshan, D. Esqué-de los Ojos, P. Castro-Hartmann, M. Guerrero, J. Nogues, S. Suriñach, M.D. Baró, B.J. Nelson, S. Pané, E. Pellicer, J. Sort
TITLE: Comparative study of the nanomechanical properties of amorphous and crystalline nanowires with respect to thick films with analogous microstructure
TYPE OF PRESENTATION: Invited
CONGRESS: 2015 Collaborative Conference on 3D Materials Research (CC3DMR)
PUBLICATION:
MEETING PLACE: Busan (South Korea)
YEAR: 2015

130- AUTHORS: D. Esqué-de los Ojos, R. Domingo-Roca, J. Zhang, M. Guerrero, E. Pellicer, M.D. Baró, S. Suriñach, J. Sort
TITLE: Mechanical properties of microporous and nanoporous alloys: experimental and theoretical (finite element modeling) points of view
TYPE OF PRESENTATION: Invited
CONGRESS: 2015 Collaborative Conference on 3D Materials Research (CC3DMR)

PUBLICATION:
MEETING PLACE: Busan (South Korea)
YEAR: 2015

131- AUTHORS: J. Zhang, S. Agramunt, S. Pané, S. Estradé, F. Peiró, N. del Valle, M.D. Baró, C. Navau, A. Sánchez, J. Nogués, E. Pellicer, [J. Sort](#)
TITLE: Template-assisted electrodeposition and magnetic properties of multi-segmented hard ferromagnetic (FM)/spacer/soft FM PtCo/Cu/Ni nanowires
TYPE OF PRESENTATION: Invited
CONGRESS: 2015 Collaborative Conference on 3D Materials Research (CC3DMR)
PUBLICATION:
MEETING PLACE: Busan (South Korea)
YEAR: 2015

132- AUTHORS: G. Mulas, S. Garroni, E. Masolo, S. Enzo, F. Spanu, E. Tolu, M. D. Baró, E. Pellicer, [J. Sort](#)
TITLE: Mesoporous scaffolds and nanoconfined systems as advanced materials for energy storage and conversion
TYPE OF PRESENTATION: Invited
CONGRESS: ISMANAM 2015
PUBLICATION:
MEETING PLACE: Paris (France)
YEAR: 2015

133- AUTHORS: I. Golvano-Escobal, N. Domingo, J.C. González-Rosillo, T. Puig, S. Pané, X. Illa, S. Suriñach, M.D. Baró, J.F. López-Barberá, J. Nogués, E. Pellicer, [J. Sort](#)
TITLE: Self-organized spatio-temporal electric, mechanical and magnetic micropatterning in electrodeposited cobalt-indium films and microcylinders
TYPE OF PRESENTATION: Invited
CONGRESS: ISMANAM 2015
PUBLICATION:
MEETING PLACE: Paris (France)
YEAR: 2015

134- AUTHORS: [J. Sort](#), S. Pané, D. Esqué-de los Ojos, M.A. Zeeshan, M. Guerrero, S. Suriñach, J. Nogués, M.D. Baró, B.J. Nelson, E. Pellicer
TITLE: Structure, Mechanical and Magnetic Performance of Amorphous and Crystalline Electrodeposited CoNiReP Thin Films and Nanowires
TYPE OF PRESENTATION: Invited
CONGRESS: ISMANAM 2015
PUBLICATION:
MEETING PLACE: Paris (France)
YEAR: 2015

135- AUTHORS: [J. Sort](#), E. Menéndez, H.Y. Zhang, S. Suriñach, M.D. Baró, E. Pellicer, J. Nogués
TITLE: Magnetic patterning strategies based on order-disorder transitions and nanocrystallization of metallic glasses
TYPE OF PRESENTATION: Invited
CONGRESS: EMN Spain Meeting

PUBLICATION:
MEETING PLACE: San Sebastian (Spain)
YEAR: 2015

136- AUTHORS: J. Sort
TITLE: Nanoporous Materials: what can they bring to the fields of magnetism, solid state lighting or spintronics?
TYPE OF PRESENTATION: Plenary
CONGRESS: EUROMAT 2015
PUBLICATION:
MEETING PLACE: Warsaw (Poland)
YEAR: 2015

137- AUTHORS: J.A. De Toro, D.P. Marques, P. Muñiz, V. Skumryev, J. Sort, D. Givord, J. Nogués
TITLE: High temperature magnetic stabilization of cobalt nanoparticles by an antiferromagnetic proximity effect
TYPE OF PRESENTATION: Invited
CONGRESS: ANMM 2015
PUBLICATION:
MEETING PLACE: Iași (Rumania)
YEAR: 2015

138- AUTHORS: J. Sort
TITLE: Advanced nanoporous materials for innovative applications
TYPE OF PRESENTATION: Invited
CONGRESS: Invited Seminar at ICMAB
PUBLICATION:
MEETING PLACE: Barcelona (Spain)
YEAR: 2015

139- AUTHORS: H.Y. Zhang, Y.P. Feng, D. Nieto, E. García, M.D. Baró, E. Pellicer, J. Sort
TITLE: Using femto-second pulsed laser irradiation to magnetically pattern the surface of non-ferromagnetic amorphous steel
TYPE OF PRESENTATION: Invited
CONGRESS: TMS Annual Meeting & Exhibition 2016 – Bulk metallic glasses XIII session
PUBLICATION:
MEETING PLACE: Nashville, Tennessee (United States)
YEAR: 2016

140- AUTHORS: D. A. Gilbert, L. Ye, K. Liu, A. Verea, S. Agramunt-Puig, N. del Valle, C. Navau, A. Sánchez, J. F. Lopez-Barbera, K.S. Buchanan, A. Hoffmann, J. Sort, J. Nogués
TITLE: Tilted vortex and mixed reversal modes in exchange-biased nano-dots and nano-ellipses
TYPE OF PRESENTATION: Invited
CONGRESS: MMM-Intermag 2016
PUBLICATION:
MEETING PLACE: San Diego (United States)
YEAR: 2016

141- AUTHORS: J. Sort

TITLE: Nanomagnetism and spintronic devices

TYPE OF PRESENTATION: Invited

CONGRESS: Workshop on "Training on research methodologies, characterization techniques and reporting scientific results" / IFW Dresden

PUBLICATION:

MEETING PLACE: Dresden (Germany)

YEAR: 2016

142- AUTHORS: H. Zhang, Y. Feng, D. Nieto, E. García-Lecina, C. Mcdaniel, J. Díaz-Marcos, M. T. Flores-Arias, G. M. O'connor, M. D. Baró, E. Pellicer, J. Sort

TITLE: Femto-second laser treatments performed at the surface of Fe-based metallic glasses

TYPE OF PRESENTATION: Invited

CONGRESS: EMN 2D Materials

PUBLICATION:

MEETING PLACE: San Sebastian (Spain)

YEAR: 2016

143- AUTHORS: J. Sort, I. García-Urrutia, E. García-Lecina, A. Varea, S. Pané, E. Pellicer

TITLE: Mechanical properties of electrodeposited nanocrystalline films and composite films containing fullerene-like WS₂ particles

TYPE OF PRESENTATION: Invited

CONGRESS: EMN 2D Materials

PUBLICATION:

MEETING PLACE: San Sebastian (Spain)

YEAR: 2016

144- AUTHORS: J. Fornell, Y.P. Feng, A. Blanquer, H.Y. Zhang, C. Nogués, E. Ibáñez, Ll. Barrios, P. Solsona, M.D. Baró, S. Suriñach, E. Pellicer, J. Sort

TITLE: Biodegradability, cytotoxicity, mechanical and magnetic properties of newly-developed Fe-Mn-Si-Pd alloys during in-vitro immersion tests in simulated body fluid

TYPE OF PRESENTATION: Invited

CONGRESS: THERMEC 2016

PUBLICATION:

MEETING PLACE: Graz (Austria)

YEAR: 2016

145- AUTHORS: J. Sort

TITLE: Nanoporous materials for magnetism and spintronics applications

TYPE OF PRESENTATION: Invited

CONGRESS: The Gordon Seminars/ The armourers and brasiers' Cambridge forum

PUBLICATION:

MEETING PLACE: Cambridge (United Kingdom)

YEAR: 2016

146- AUTHORS: M.D. Baró, H. Zhang, Y. Feng, D. Nieto, E. García-Lecina, C. McDaniel, J. Díaz-Marcos, M. T. Flores-Arias, G. M O'Connor, E. Pellicer, J. Sort

TITLE: Using Femtosecond Pulsed Laser Irradiation to Magnetically Pattern the Surface of Non-Ferromagnetic Amorphous Steel

TYPE OF PRESENTATION: Invited
CONGRESS: ISMANAM 2016
PUBLICATION:
MEETING PLACE: Nara City (Japan)
YEAR: 2016

147- AUTHORS: K. Cordero, A. Abdollahi, I. Arias, J. Sort, G. Catalan
TITLE: Switchable mechanical properties of ferroelectric domains
TYPE OF PRESENTATION: Invited
CONGRESS: 13th International Symposium on Ferroic Domains & Micro- to Nano-scopic Structures (ISFD-13)
PUBLICATION: Vancouver (Canada)
MEETING PLACE:
YEAR: 2016

148- AUTHORS: J. Sort, J. Zhang, S. Agramunt-Puig, N. Del-Valle, C. Navau, S. Estradé, F. Peiró, S. Pané, A. Sánchez, J. Nogués, E. Pellicer
TITLE: Multi-Segmented Magnetic Nanowires as Advanced Nanorobotic Platforms for Biomedical Applications
TYPE OF PRESENTATION: Invited
CONGRESS: 61st Annual Conference on Magnetism and Magnetic Materials (2016 MMM)
PUBLICATION:
MEETING PLACE: New Orleans (United States)
YEAR: 2016

149- AUTHORS: V. M. Villapún, H. Zhang, L. Cheung Chow, C. Howden, F. Esat, P. Pérez, G. Wells, J. Sort, S. Bull, J. Stach, S. González
TITLE: Novel metallic glass composites with optimum antimicrobial and wear performance
TYPE OF PRESENTATION: Invited
CONGRESS: World Summit on nanotechnology and nanomedicine research
PUBLICATION:
MEETING PLACE: Dubai (United Arab Emirates)
YEAR: 2016

150- AUTHORS: M. Guerrero, J. Fornell, J. Soriano, J. De Dios Sirvent, M. Cremades, E. Ibáñez, L. Barrio, M.D. Baró, S. Suriñach, C. Nogués, J. Sort, E. Pellicer
TITLE: Novel FeMn(Si)-coated Polypropylene Membranes as Micro-robotic Magnetic Platforms for Drug Delivery Applications
TYPE OF PRESENTATION: Invited
CONGRESS: BIT's 3rd Annual World Conference Congress of Smart Materials-2017
PUBLICATION:
MEETING PLACE: Bangkok, Thailand
YEAR: 2017

151- AUTHORS: M. Guerrero, J. Fornell, J. Soriano, J. De Dios Sirvent, M. Ferran-Marqués, E. Ibáñez, L. Barrios, M.D. Baró, S. Suriñach, C. Nogués, E. Pellicer, J. Sort
TITLE: Design and characterization of novel FeMn-coated polypropylene nanodevices as micro-robotic magnetic platforms for drug delivery applications
TYPE OF PRESENTATION: Invited
CONGRESS: 4th World Congress and Expo on Nanotechnology and Materials Science

PUBLICATION:
MEETING PLACE: Barcelona (Spain)
YEAR: 2017

152- AUTHORS: J. Sort, J. Zhang, S. Agramunt-Puig, N. Del-Valle, C. Navau, S. Estradé, F. Peiró, S. Pané, A. Sánchez, E. Pellicer, J. Nogués
TITLE: Tri-segmented magnetic nanowires with antiparallel alignment: suitable platforms for biomedical applications with minimized agglomeration?
TYPE OF PRESENTATION: Invited
CONGRESS: IEEE International Magnetism Conference, INTERMAG Europe 2017
PUBLICATION:
MEETING PLACE: Dublin (Ireland)
YEAR: 2017

153- AUTHORS: J. Fornell, E. Pellicer, J. Soriano, J. de Dios Sirvent, M. Guerrero, E. Ibáñez, L. Barrios, M.D. Baró, S. Suriñach, C. Nogués, J. Sort
TITLE: Fabrication of magnetic FeMn(Si)-coated polypropylene membranes as micro-robotic platforms for drug delivery applications
TYPE OF PRESENTATION: Invited
CONGRESS: FIMPART 2017
PUBLICATION:
MEETING PLACE: Bordeaux (France)
YEAR: 2017

154- AUTHORS: E. Menéndez, S. Suriñach, M. D. Baró, M. O. Liedke, J. Fassbender, J. Nogués, J. Sort
TITLE: Structure, composition and magnetism in FeAl alloys
TYPE OF PRESENTATION: Invited
CONGRESS: FIMPART 2017
PUBLICATION:
MEETING PLACE: Bordeaux (France)
YEAR: 2017

155- AUTHORS: J. Sort, Y. P. Feng, A. Blanquer, H. Y. Zhang, P. Solsona, M. D. Baró, S. Suriñach, E. Ibáñez, N. Gaztelumendi, E. García-Lecina, L. Barrios, E. Pellicer, C. Nogués, J. Fornell
TITLE: Novel Fe-Mn-Si-Pd dense and porous alloys: insights on mechanical, magnetic, corrosion and biocompatibility performance
TYPE OF PRESENTATION: Invited
CONGRESS: FIMPART 2017
PUBLICATION:
MEETING PLACE: Bordeaux (France)
YEAR: 2017

156- AUTHORS: I. Golvano-Escobal, J. C. Gonzalez-Rosillo, N. Domingo, X. Illa, J. F. López-Barbera, J. Fornell, P. Solsona, L. Aballe, M. Foerster, S. Suriñach, M. D. Baró, T. Puig, S. Pané, J. Nogués, E. Pellicer, J. Sort
TITLE: Spatio-temporal patterns formation in Cobalt-In indium system: continuous films vs. versus microdisk arrays
TYPE OF PRESENTATION: Invited

CONGRESS: FIMPART 2017
PUBLICATION:
MEETING PLACE: Bordeaux (France)
YEAR: 2017

157- AUTHORS: S. Robbennolt, J. Fornell, A. Quintana, E. Menéndez, H. Zhang, V. Sireus, A. Gordó, E. Pellicer, [J. Sort](#)
TITLE: Structural and Magnetic Properties of Fe-based, Nanoporous Thin Films
TYPE OF PRESENTATION: Invited
CONGRESS: European Advanced Materials Congress (EAMC 2017)
PUBLICATION:
MEETING PLACE: Stockholm (Sweden)
YEAR: 2017

158- AUTHORS: M. D. Baró, J. Fornell, Y.P. Feng, A. Blanquer, H.Y. Zhang, C. Nogués, E. Ibáñez, Ll. Barrios, P. Solsona, S. Suriñach, E. Pellicer, [J. Sort](#)
TITLE: Hydroxyapatite-coated and non-coated novel Fe-Mn-Si-Pd biocompatible alloys, designed for biomedical applications
TYPE OF PRESENTATION: Invited
CONGRESS: 16th International Conference on Rapidly Quenched and Metastable Materials
PUBLICATION:
MEETING PLACE: Leoben (Austria)
YEAR: 2017

159- AUTHORS: Z. Li, A. Aranda-Ramos, P. Güell-Grau, J.L. Tajada, L. Pou-Macayo, S. Lope Piedrafita, F. Pi, M. D. Baró, [J. Sort](#), C. Nogués, J. Nogues, B. Sepulveda
TITLE: Multifunctional magneto-plasmonic nanodomes for combined magnetic manipulation, multi-modal imaging and photo-thermal therapies
TYPE OF PRESENTATION: Invited
CONGRESS: International union of materials research society-International conference of advanced materials (IUMRS-ICAM) 2017
PUBLICATION:
MEETING PLACE: Kyoto (Japan)
YEAR: 2017

160- AUTHORS: Z. Li, A. Aranda-Ramos, P. Güell-Grau, J.L. Tajada, L. Pou-Macayo, S. Lope Piedrafita, F. Pi, M. D. Baró, [J. Sort](#), C. Nogués, J. Nogues, B. Sepulveda
TITLE: Multifunctional magneto-plasmonic nanodomes for combined magnetic manipulation, multi-modal imaging and photo-thermal therapies
TYPE OF PRESENTATION: Invited
CONGRESS: Collaborative Conference on Materials Research (CCMR) 2017
PUBLICATION:
MEETING PLACE: Jeju Island (South Korea)
YEAR: 2017

161- AUTHORS: Z. Li, A. Aranda-Ramos, P. Guell-Grau, J.L. Tajada, L. Pou-Macayo, S. Lope-Piedrafita, F. Pi, M.D. Baro, [J. Sort](#), C. Nogués, J. Nogués, B. Sepulveda
TITLE: Combined photo-thermal therapy and multimodal imaging with magneto-plasmonic nanodomes
TYPE OF PRESENTATION: Invited

CONGRESS: International Conference on Small Science and Energy Materials Nanotechnology Nanoparticles Meeting
PUBLICATION:
MEETING PLACE: San Sebastian (Spain)
YEAR: 2017

162- AUTHORS: J. Fornell, Y. Feng, E. Pellicer, S. Suriñach, M.D. Baró, J. Sort
TITLE: Hydroxyapatite and ZnO coatings on Fe and FeMnSiPd alloys
TYPE OF PRESENTATION: Invited
CONGRESS: International Conference on PROCESSING & MANUFACTURING OF ADVANCED MATERIALS (Thermec 2018)
PUBLICATION:
MEETING PLACE: Paris (France)
YEAR: 2018

163- AUTHORS: J. Sort, A. Quintana, C. Navarro-Senent, E. Dislaki, S. Robbenolt, J. Fornell, E. Isarain-Chávez, E. Menéndez, M. D. Baró, J. Nogués, E. Pellicer
TITLE: Large magnetoelectric effects in nanoporous electrodeposited films and patterned structures
TYPE OF PRESENTATION: Invited
CONGRESS: International Conference on PROCESSING & MANUFACTURING OF ADVANCED MATERIALS (Thermec 2018)
PUBLICATION:
MEETING PLACE: Paris (France)
YEAR: 2018

164- AUTHORS: H. Zhang, Y. Feng, D. Nieto, E. García-Lecina, M.D. Baró, E. Pellicer, J. Sort
TITLE: Using Femtosecond Pulsed Laser Irradiation to Magnetically Pattern the Surface of Non-Ferromagnetic Amorphous Steel
TYPE OF PRESENTATION: Invited
CONGRESS: International Conference on PROCESSING & MANUFACTURING OF ADVANCED MATERIALS (Thermec 2018)
PUBLICATION:
MEETING PLACE: Paris (France)
YEAR: 2018

165- AUTHORS: S. Robbenolt, J. Fornell, A. Quintana, H. Zhang, E. Menéndez, E. Pellicer, J. Sort
TITLE: Magnetic and magnetoelectric properties of Fe-Cu thin films made nanoporous by electrochemical dealloying
TYPE OF PRESENTATION: Invited
CONGRESS: Collaborative conference on Materials Research (CCMR) 2018
PUBLICATION:
MEETING PLACE: Seoul (South Korea)
YEAR: 2018

166- AUTHORS: J. Nogués, Z. Li, A. Aranda-Ramos, A. López-Ortega, P. Güell-Grau, J. L. Tajada, P. Pou-Moyano, F. Pi, S- Lope Piedrafita, M. D. Baró, J. Sort, P. Vavasori, C. Nogués, B. Sepúlveda

TITLE: Simultaneous local nanoheating/thermometry based on plasmonic magnetochromic nanodomes

TYPE OF PRESENTATION: Invited

CONGRESS: Collaborative conference on Materials Research (CCMR) 2018

PUBLICATION:

MEETING PLACE: Seoul (South Korea)

YEAR: 2018

167- AUTHORS: E. Pellicer, E. Isarain-Chavez, M. D. Baró, J. Sort

TITLE: Magnetic properties of electrocatalytically active 3D nanoporous Fe-containing metallic films prepared by micelle-assisted electrodeposition

TYPE OF PRESENTATION: Invited

CONGRESS: CIMTEC 2018, 8th Forum on New Materials

PUBLICATION:

MEETING PLACE: Perugia (Italy)

YEAR: 2018

168- AUTHORS: J. Sort, A. Quintana, C. Navarro-Senent, J. Fornell, J. Zhang, E. Isarain-Chávez, E. Menéndez, R. Cuadrado, R. Robles, M. D. Baró, M. Guerrero, S. Pané, B. Nelson, C. Müller, P. Ordejón, J. Nogués, E. Pellicer

TITLE: Voltage-induced coercivity reduction in nanoporous alloy films and patterned structures: a boost towards energy-efficient magnetic actuation

TYPE OF PRESENTATION: Invited

CONGRESS: 2nd IEEE Conference on Advances in Magnetism

PUBLICATION:

MEETING PLACE: La Thuile (Italy)

YEAR: 2018

169- AUTHORS: E. Pellicer, J. Zhang, J. Nogués, J. Sort

TITLE: Electrodeposition of tri-segmented magnetic nanowires with antiparallel alignment and zero net magnetization

TYPE OF PRESENTATION: Invited

CONGRESS: 2nd IEEE Conference on Advances in Magnetism

PUBLICATION:

MEETING PLACE: La Thuile (Italy)

YEAR: 2018

170- AUTHORS: E. Dislaki, J. Nogués, E. Pellicer, J. Sort

TITLE: Magneto-electric effects in electroplated hierarchically porous FeCu films patterned by colloidal lithography

TYPE OF PRESENTATION: Invited

CONGRESS: 2018 EMN Milan Meeting on Magnetic Nanomaterials

PUBLICATION:

MEETING PLACE: Milan (Italy)

YEAR: 2018

171- AUTHORS: J. Sort, C. Navarro-Senent, A. Quintana, E. Menéndez, J. Fornell, J. Zhang, M.D. Baró, J. Nogués, E. Pellicer

TITLE: Magnetoelectric effects in nanoporous alloys as a means to enhance energy efficiency in magnetically actuated devices

TYPE OF PRESENTATION: Plenary Talk

CONGRESS: 9th International Conference Materials Science and Condensed Matter Physics

PUBLICATION:

MEETING PLACE: Chisinau (Moldova)

YEAR: 2018

172- AUTHORS: J. Sort, C. Navarro-Senent, J. Zhang, J. Fornell, E. Menéndez, J. Nogués, E. Pellicer

TITLE: Tri-segmented magnetic nanowires with antiparallel alignment: suitable platforms for biomedical

TYPE OF PRESENTATION: Invited

CONGRESS: ISMANAM 2018

PUBLICATION:

MEETING PLACE: Rome (Italy)

YEAR: 2018

173- AUTHORS: Z. Li, A. López-Ortega, A. Aranda-Ramos, J. L. Tajada, J. Sort, C. Nogués, P. Vavasori, J. Nogués, B. Sepúlveda

TITLE: Simultaneous local heating/thermometry based on plasmonic mag-netochromic nanodomes

TYPE OF PRESENTATION: Invited

CONGRESS: ISMANAM 2018

PUBLICATION:

MEETING PLACE: Rome (Italy)

YEAR: 2018

174- AUTHORS: J. Sort, A. Quintana, C. Navarro-Senent, E. Isaraín-Chávez, E. Menéndez, J. Fornell, M. D. Baró, J. Nogués, E. Pellicer

TITLE: Enhanced magnetoelectric effects in nanoporous alloy films and nanoporous metal/metal oxide lithographed microdisks prepared by electrodeposition

TYPE OF PRESENTATION: Invited

CONGRESS: E-MRS 2018 Fall Meeting

PUBLICATION:

MEETING PLACE: Warsaw (Poland)

YEAR: 2018

175- AUTHORS: H. Zhang, Y. Feng, D. Nieto, E. García-Lecina, M.D. Baró, E. Pellicer, J. Sort

TITLE: Using Femtosecond Pulsed Laser Irradiation (FSPLI) to Magnetically Pattern the Surface of Non-Ferromagnetic Amorphous Steel

TYPE OF PRESENTATION: Invited

CONGRESS: 4th Intl. Symp. on Science of Intelligent and Sustainable Advanced Materials (SISAM)

PUBLICATION:

MEETING PLACE: Rio de Janeiro (Brazil)

YEAR: 2018

176- AUTHORS: J. Nogués, Z. Li, A. Aranda-Ramos, A. López-Ortega, P. Güell-Grau, J.L. Tajada, L. Pou-Macayo, F. Pi, S. Lope Piedrafita, M.D. Baró, J. Sort, P. Vavasori, C. Nogués, B. Sepúlveda

TITLE: Magnetoplasmonic Nanodomes as a Novel Structure for Biomedical Applications

TYPE OF PRESENTATION: Invited (Keynote)
CONGRESS: IUMRS-ICEM 2018
PUBLICATION:
MEETING PLACE: Daejeon, Korea
YEAR: 2018

177- AUTHORS: M. O. Liedke, M. Butterling, A. Quintana, E. Menéndez, J. Ehrler, R. Bali, E. Hirschmann, V. Sireus, J. Nogués, J. Sort, A. Wagner
TITLE: Vacancy mediated magnetic phase transitions
TYPE OF PRESENTATION: Invited
CONGRESS: 18th International Conference on Positron Annihilation
PUBLICATION:
MEETING PLACE: Orlando (USA)
YEAR: 2019

178- AUTHORS: A. Nicolenco, N. Tsyntsar, E. Pellicer, J. Sort, H. Cesiulis
TITLE: Electrodeposited dense and porous Fe-based alloys: design and perspectives
TYPE OF PRESENTATION: Invited
CONGRESS: 4th e-MINDs COST Workshop
PUBLICATION:
MEETING PLACE: Milan (Italy)
YEAR: 2019

179- AUTHORS: E. Rosolymu, E. Pellicer, J. Sort, E. A. Pavlatou
TITLE: Morphological and structural characterization of tin/tin oxide nanowires
TYPE OF PRESENTATION: Invited
CONGRESS: 4th e-MINDs COST Workshop
PUBLICATION:
MEETING PLACE: Milan (Italy)
YEAR: 2019

180- AUTHORS: M. Fernández-Barcia, B. Jang, C. Alcántara, M. Uhlemann, U. Wolff, A. Gebert, J. Sort, E. Pellicer, S. Pané
TITLE: From layers to microstructures: exploiting confinement effects for the production of FeMn-based micromotors
TYPE OF PRESENTATION: Invited
CONGRESS: 4th e-MINDs COST Workshop
PUBLICATION:
MEETING PLACE: Milan (Italy)
YEAR: 2019

181- AUTHORS: J. Sort, A. Quintana, C. Navarro-Senent, J. Fornell, E. Menéndez, M. D. Baró, E. Pellicer
TITLE: Enhanced energy efficiency in voltage-actuated magnetic nanoporous alloy films and patterned structures
TYPE OF PRESENTATION: Invited (Keynote)
CONGRESS: IAPE '19
PUBLICATION:
MEETING PLACE: Oxford (UK)
YEAR: 2019

182- AUTHORS: J. Sort, C. Navarro-Senent, A. Quintana, J. Fornell, E. Menéndez, J. Nogués, E. Pellicer
TITLE: Magneto-ionic effects in nanoporous lithographed structures: reducing energy consumption in magnetoelectronic devices
TYPE OF PRESENTATION: Invited (Keynote)
CONGRESS: ISMANAM 2019
PUBLICATION:
MEETING PLACE: Chennai (India)
YEAR: 2019

183- AUTHORS: J. Sort
TITLE: How to modify the magnetic properties of materials with electrical voltage?
TYPE OF PRESENTATION: Plenary Talk
CONGRESS: Engineering, environment and materials in processing industry Congress 2019
PUBLICATION:
MEETING PLACE: Jahorina (Bosnia and Herzegovina)
YEAR: 2019

184- AUTHORS: J. Fornell, C. Navarro-Senent, S. Suriñach, M.D. Baró, E. Pellicer, J. Sort
TITLE: Converse magnetoelectric effect in porous FeGa/ZnO thin films
TYPE OF PRESENTATION: Invited
CONGRESS: ISMANAM 2019
PUBLICATION:
MEETING PLACE: Chennai (India)
YEAR: 2019

185- AUTHORS: Z. Li, A. Aranda-Ramos, P. Güell-Grau, J.L. Tajada, L. Pou-Macayo, S. Lope Piedrafita, F. Pi, M.D. Baró, J. Sort, C. Nogués, J. Nogues, B. Sepulveda
TITLE: Multifunctional magneto-plasmonic nanodomes for combined magnetic manipulation, multi-modal imaging and photo-thermal therapies
TYPE OF PRESENTATION: Invited (Keynote)
CONGRESS: ISMANAM 2019
PUBLICATION:
MEETING PLACE: Chennai (India)
YEAR: 2019

186- AUTHORS: C. Navarro, A. Quintana Puebla, S. Robbenolt, A. Nicolenco, D. Baró, V. Sireus, E. Pellicer, J. Nogués, E. Menéndez, J. Sort
TITLE: Voltage-controlled on-off ferromagnetism in dense and nanoporous transition-metal oxides
TYPE OF PRESENTATION: Invited
CONGRESS: 64th Annual Conference on Magnetism and Magnetic Materials
PUBLICATION:
MEETING PLACE: Las Vegas (USA)
YEAR: 2019

187- AUTHORS: J. Sort

TITLE: Voltage-modified magnetic surfaces: towards enhanced energy efficient magnetic actuation

TYPE OF PRESENTATION: Plenary Talk

CONGRESS: SMT33

PUBLICATION:

MEETING PLACE: Naples (Italy)

YEAR: 2019

188- AUTHORS: J. Nogués, Z. Li, A. Aranda-Ramos, A. López-Ortega, P. Güell-Grau, J.L. Tajada, L. Pou-Macayo, F. Pi, S. Lope Piedrafita, M.D. Baró, J. Sort, P. Vavasori, C. Nogués, B. Sepúlveda

TITLE: Magnetoplasmonic Nanodomes as a Novel Structure for Biomedical Applications

TYPE OF PRESENTATION: Plenary Talk

CONGRESS: III International Baltic Conference on Magnetism 2019

PUBLICATION:

MEETING PLACE: Svetlogorsk (Russia)

YEAR: 2019

189- AUTHORS: J. Sort

TITLE: Overview of the Research Activities at the Gnm3 Group

TYPE OF PRESENTATION: Invited

CONGRESS: Collaborative Info Day UPC-UAB

PUBLICATION:

MEETING PLACE: Barcelona (Spain)

YEAR: 2019

190- AUTHORS: J. Nogués, Z. Li, A. Aranda-Ramos, A. López-Ortega, P. Güell-Grau, J.L. Tajada, L. Pou-Macayo, F. Pi, S. Lope Piedrafita, M.D. Baró, J. Sort, P. Vavasori, C. Nogués, B. Sepúlveda

TITLE: Magnetoplasmonic Nanodomes as a Novel Structure for Biomedical Applications

TYPE OF PRESENTATION: Invited

CONGRESS: JEMS 2019

PUBLICATION:

MEETING PLACE: Upsala (Sweden)

YEAR: 2019

191- AUTHORS: J. Sort

TITLE: Magnetoelectric effects in mesoporous alloys: towards enhanced energy efficiency in magnetically-actuated devices

TYPE OF PRESENTATION: Invited

CONGRESS: Grenoble-Barcelona twin conference : From quantum systems to new materials and smart electrical energy

PUBLICATION:

MEETING PLACE: Grenoble (France)

YEAR: 2019

192- AUTHORS: A. Nicolenco, C. Navarro-Senent, S. Robbenolt, A. Quintana, E. Dislaki, E. Pellicer, E. Menéndez, J. Sort

TITLE: Magnetoelectric effects in nanoporous alloys and semiconductors

TYPE OF PRESENTATION: Invited
CONGRESS: Heraeus Seminars
PUBLICATION:
MEETING PLACE: Bad Honnef (Germany)
YEAR: 2020

193- AUTHORS: J. Sort
TITLE: Large magnetoelectric effects in electrolyte-gated nanoporous metallic alloys and oxide materials
TYPE OF PRESENTATION: Invited
CONGRESS: Invited Talk at AALTO University
PUBLICATION:
MEETING PLACE: Aalto (Finland)
YEAR: 2020

194- AUTHORS: A. Nicolenco, E. Menéndez, J. Fornell, E. Pellicer, X.-Z. Chen, S. Pané, J. Sort
TITLE: Strain gradient mediated magnetoelectric effects in composite polymer/inorganic multiferroic films
TYPE OF PRESENTATION: Invited
CONGRESS: CIMTEC 2020 Congress
PUBLICATION:
MEETING PLACE: Montecatini (Italy)
YEAR: 2020

195- AUTHORS: J. Sort, J. de Rojas, A. Quintana, E. Menéndez
TITLE: Boosting magneto-ionic effects in a non-magnetic oxide semiconductor
TYPE OF PRESENTATION: Invited
CONGRESS: EMA 2021 / online
PUBLICATION:
MEETING PLACE:
YEAR: 2021

196- AUTHORS: J. de Rojas, E. Menéndez, J. Sort
TITLE: Voltage control of magnetism with magneto-ionic approaches: beyond oxygen ion migration
TYPE OF PRESENTATION: Invited
CONGRESS: PetaSpin Seminar
PUBLICATION:
MEETING PLACE: online (Italian IEEE Magnetics Society)
YEAR: 2021

197- AUTHORS: J. Sort
TITLE: Magneto-ionics for energy efficiency: challenges and opportunities
TYPE OF PRESENTATION: Invited
CONGRESS: Clustering and Global Challenges" (CGC2021) international online conference
PUBLICATION:
MEETING PLACE: online
YEAR: 2021

198- AUTHORS: A. Bartkowska, P. Solsona, E. Pellicer, [J. Sort](#)
TITLE: Engineered porous Fe₅₀Mn₅₀ alloys with additions of Zn/Ag as antibacterial elements for biodegradable implant applications
TYPE OF PRESENTATION: keynote
CONGRESS: Euromat 2021
PUBLICATION:
MEETING PLACE: online (Graz)
YEAR: 2021

199- AUTHORS: J. de Rojas, E. Menéndez, [J. Sort](#)
TITLE: Voltage-driven ion-migration in magnetic materials: a new approach to enhance energy efficiency
TYPE OF PRESENTATION: Plenary Address
CONGRESS: 13th International Conference on Physics of Advanced Materials, ICPAM-13
PUBLICATION:
MEETING PLACE: Sant Feliu de Guíxols (Spain)
YEAR: 2021

200- AUTHORS: [J. Sort](#)
TITLE: Magneto-ionic ON-OFF switching of ferromagnetism: challenges and prospects
TYPE OF PRESENTATION: Invited
CONGRESS: 2nd Symposium Nanotechnologies for 21st century cooperation event between Albania, Japan and Spain
PUBLICATION:
MEETING PLACE: online
YEAR: 2021

201- AUTHORS: [J. Sort](#)
TITLE: Voltage-control of magnetism: a new approach to enhance energy efficiency in information technologies
TYPE OF PRESENTATION: Invited
CONGRESS: Annual Congress of Nanoscience and Nanotechnology (III CANN-2021) / Barcelona
PUBLICATION:
MEETING PLACE: online
YEAR: 2021

202- AUTHORS: [J. Sort](#)
TITLE: Overview of the BeMAGIC European Training Network
TYPE OF PRESENTATION: Invited
CONGRESS: Joint IOP / ITN MagnEFI Magnetism School / online
PUBLICATION:
MEETING PLACE: online
YEAR: 2021

203- AUTHORS: K. Eiler, [J. Sort](#), E. Pellicer
TITLE: Nanostructuring electrocatalyst materials by electrodeposition
TYPE OF PRESENTATION: Invited
CONGRESS: International Process Metallurgy Symposium (IPMS)

PUBLICATION:
MEETING PLACE: Helsinki/Finland
YEAR: 2021

204- AUTHORS: Z. Tan, J. de Rojas, J. L. Costa-Kramer, A. Quintana, E. Menéndez, J. Sort
TITLE: Magneto-Ionics Using Nitrogen Ion Transport—Towards Emulation of New Neuromorphic Functionalities
TYPE OF PRESENTATION: Invited
CONGRESS: 23rd International Conference on Solid State Ionics (SSI-23)
PUBLICATION:
MEETING PLACE: Boston/USA
YEAR: 2022

205- AUTHORS: Z. Tan, J. de Rojas, S. Martins, A. Nicolenco, J.L. Costa-Kramer, A. Quintana, E. Menéndez, J. Sort
TITLE: Magneto-ionics in transition metal nitrides and its potential for artificial synapses
TYPE OF PRESENTATION: Invited
CONGRESS: CIMTEC
PUBLICATION:
MEETING PLACE: Perugia, Italy
YEAR: 2022

206- AUTHORS: J. Sort
TITLE: Advanced Magnetoelectric Nanocomposites and Their Applications
TYPE OF PRESENTATION: Invited/Chair
CONGRESS: "Nanomaterials" Webinar (SciForum)
PUBLICATION:
MEETING PLACE: online
YEAR: 2022

207- AUTHORS: Z.Tan, J de Rojas, J. L. Costa-Krämer, A. Quintana, E. Menéndez, J. Sort
TITLE: Voltage-driven ON-OFF switching of ferromagnetism in transition metal oxide and nitride films for neuromorphic applications
TYPE OF PRESENTATION: Invited
CONGRESS: JEMS 2022
PUBLICATION:
MEETING PLACE: Warsaw, Poland
YEAR: 2022

208- AUTHORS: J. Sort
TITLE: Magneto-ionics in transition metal oxides and nitrides and its potential for neuromorphic computing
TYPE OF PRESENTATION: Plenary
CONGRESS: Seminar MR
PUBLICATION:
MEETING PLACE: online, Brazil
YEAR: 2022

209- AUTHORS: J. Nogués, A. Lafuente, Z. Li, A. Flucksman, A. Aranda-Ramos, A. Lopez-Ortega, A.G. Roca, P. Guell-Grau, J.L. Tajada, L. Pou-Macayo, F. Pi, S. Lope Piedrafita, M.D. Baro, J. Sort, P. Vavassori, C. Nogues, O. Benny, B. Sepulveda

TITLE: Magnetoplasmonic nanodomes as a novel structure for biomedical Applications

TYPE OF PRESENTATION: Plenary

CONGRESS: Nanomaterial Applied to Life Sciences (NALS)

PUBLICATION:

MEETING PLACE: Santader, Spain

YEAR: 2022

210- AUTHORS: J. Nogués, A. Lafuente, Z. Li, A. Flucksman, A. Aranda-Ramos, A. Lopez-Ortega, A.G. Roca, P. Guell-Grau, J.L. Tajada, L. Pou-Macayo, F. Pi, S. Lope Piedrafita, M.D. Baro, J. Sort, P. Vavassori, C. Nogues, O. Benny, B. Sepulveda

TITLE: Magnetoplasmonic nanodomes as a novel structure for biomedical Applications

TYPE OF PRESENTATION: Plenary

CONGRESS: International Conference on Fine Particle Magnetism (ICFPM)

PUBLICATION:

MEETING PLACE: Yokohama, Japan

YEAR: 2022

211- AUTHORS: J. Nogués, A. Lafuente, Z. Li, A. Flucksman, A. Aranda-Ramos, A. Lopez-Ortega, A.G. Roca, P. Guell-Grau, J.L. Tajada, L. Pou-Macayo, F. Pi, S. Lope Piedrafita, M.D. Baro, J. Sort, P. Vavassori, C. Nogues, O. Benny, B. Sepulveda

TITLE: Magnetoplasmonic nanodomes as a novel structure for biomedical applications

TYPE OF PRESENTATION: Plenary

CONGRESS: Nano Science/Technology/Biotechnology (3NANO)

PUBLICATION:

MEETING PLACE: Rome, Italy

YEAR: 2022

212- AUTHORS: K. Eiler, J. Sort, E. Pellicer

TITLE: Nanostructured Ni-based electrocatalysts for hydrogen energy

TYPE OF PRESENTATION: Invited

CONGRESS: 3D / ICOMAS

PUBLICATION:

MEETING PLACE: Verona, Italy

YEAR: 2022

213- AUTHORS: J. Sort, Z. Tan, Z. Ma, P. Monalisha, J. de Rojas, J. L. Costa-Krämer, J. Nogués, A. Quintana, E. Pellicer, E. Menéndez

TITLE: Electrostatic charging and magneto-ionics: a new paradigm for low-power memory applications and neuromorphic systems

TYPE OF PRESENTATION: Plenary

CONGRESS: AIM 23

PUBLICATION:

MEETING PLACE: Moena, Italy

YEAR: 2023

214- AUTHORS: J. Sort

TITLE: Recent progress in voltage control of magnetism using magneto-ionics and strain: fundamental aspects and prospective applications

TYPE OF PRESENTATION: Plenary
CONGRESS: Invited Seminar at IMDEA Materiales
PUBLICATION:
MEETING PLACE: Madrid, Spain
YEAR: 2023

215- AUTHORS: J. Sort
TITLE: Electrolyte-gated magnetic materials: a new way to control magnetism with voltage for low-power memory systems
TYPE OF PRESENTATION: keynote
CONGRESS: CRC Colloquia, University of Darmstadt
PUBLICATION:
MEETING PLACE: online
YEAR: 2023

216- AUTHORS: J. Sort
TITLE: Electrolyte gating of magnetic materials: a new paradigm for low-power memory applications and neuromorphic systems
TYPE OF PRESENTATION: Invited
CONGRESS: Invited seminar at INRIM
PUBLICATION:
MEETING PLACE: Torino, Italy
YEAR: 2023

217- AUTHORS: J. Sort
TITLE: Magneto-ionics for neuromorphic computing
TYPE OF PRESENTATION: Invited
CONGRESS: BeMAGIC Conference 2023: "Beyond Magnetoelectric Materials"
PUBLICATION:
MEETING PLACE: Torino, Italy
YEAR: 2023

218- AUTHORS: J. Nogués, A. Lafuente, Z. Li, A. Flucksmann, A. Aranda-Ramos, A. Lopez-Ortega, A.G. Roca, P. Guell-Grau, J.L. Tajada, L. Pou-Macayo, F. Pi, S. Lope Piedrafita, M.D. Baro, J. Sort, P. Vavassori, C. Nogues, O. Benny, B. Sepulveda
TITLE: Magnetoplasmonic nanodomes as a novel structure for biomedical applications
TYPE OF PRESENTATION: Keynote
CONGRESS: RQ1-ISMANAM27
PUBLICATION:
MEETING PLACE: Warsaw, Poland
YEAR: 2023

219- AUTHORS: J. Sort, Z. Tan, N. López, Z. Ma, P. Monalisha, J. de Rojas, J. L. Costa-Krämer, A. Quintana, E. Pellicer, J. Nogués, E. Menéndez
TITLE: Shaping the future: Energy-efficient magnetic memory and neuromorphic technologies
TYPE OF PRESENTATION: Plenary
CONGRESS: JEMS 2023
PUBLICATION:
MEETING PLACE: Madrid, Spain
YEAR: 2023

220- AUTHORS: J. Sort, Z. Tan, N. López, Z. Ma, I. Spasojević, P. Monalisha, J. de Rojas, A. Quintana, E. Pellicer, J. Nogués, E. Menéndez
TITLE: Voltage-control of magnetism: fundamental mechanisms and prospective applications in low-power memory and artificial synapses
TYPE OF PRESENTATION: Invited
CONGRESS: Trends in Magnetism 2023
PUBLICATION:
MEETING PLACE: Rome, Italy
YEAR: 2023

221- AUTHORS: E. Pellicer, J. Sort
TITLE: Mesoporous metallic materials electrodeposited from polymeric micelle assemblies for energy applications
TYPE OF PRESENTATION: Invited
CONGRESS: 244th ECS Meeting
PUBLICATION:
MEETING PLACE: Gothenburg, Sweden
YEAR: 2023

222- AUTHORS: Z. Tan, N. López, Z. Ma, I. Spasojević, P. Monalisha, J. de Rojas, J. L. Costa-Krämer, A. Quintana, E. Pellicer, J. Nogués, E. Menéndez, J. Sort
TITLE: Recent developments on nitrogen magneto-ionics
TYPE OF PRESENTATION: Invited
CONGRESS: 4th Workshop - Cooperation event between Albania, Japan, and Spain
PUBLICATION:
MEETING PLACE: Tirana, Albania
YEAR: 2023

223- AUTHORS: Z. Tan, N. López, Z. Ma, I. Spasojević, P. Monalisha, J. de Rojas, J. L. Costa-Krämer, A. Quintana, E. Pellicer, J. Nogués, E. Menéndez, J. Sort
TITLE: Magneto-ionics for low-power memory and neuromorphic applications
TYPE OF PRESENTATION: Invited
CONGRESS: Nanobalkan 2023
PUBLICATION:
MEETING PLACE: Tirana, Albania
YEAR: 2023

224- AUTHORS: Z. Tan, Z. Ma, L. Fuentes-Rodriguez, M. O. Liedke, M. Butterling, A. G. Attallah, E. Hirschmann, A. Wagner, L. Abad, N. Casañ-Pastor, A. Lopeandia, E. Menéndez, J. Sort
TITLE: Solid/Liquid Electrolyte Engineering to Boost Cyclability During Magneto-ionic Actuation
TYPE OF PRESENTATION: Invited
CONGRESS: MMM
PUBLICATION:
MEETING PLACE: Dallas, USA
YEAR: 2023

225- AUTHORS: E. Menéndez, J. Sort
TITLE: Control of magnetism by voltage-driven ion transport (magneto-ionics)

TYPE OF PRESENTATION: Invited
CONGRESS: ELBE Scientific and Advisory Committee Meeting 2023
PUBLICATION:
MEETING PLACE: Rossendorf, Germany
YEAR: 2023

226- AUTHORS: J. Sort
TITLE: Voltage control of magnetism for low-power memory and neuromorphic applications
TYPE OF PRESENTATION: Invited
CONGRESS: Invited seminar at ICN2
PUBLICATION:
MEETING PLACE: Bellaterra, Spain
YEAR: 2023

227- AUTHORS: J. Sort
TITLE: Enabling magneto-ionics for brain-inspired memory applications
TYPE OF PRESENTATION: Invited
CONGRESS: BeMAGIC Workshop
PUBLICATION:
MEETING PLACE: Bellaterra, Spain
YEAR: 2023

228- AUTHORS: J. Sort
TITLE: Multi-layered $[\text{Co/Ni}]_n/\text{Ru}/[\text{Co/Ni}]_m$ voltage-sensitive materials for MRAMS
TYPE OF PRESENTATION: Invited
CONGRESS: Nickeffect Workshop
PUBLICATION:
MEETING PLACE: Barcelona, Spain
YEAR: 2024

229- AUTHORS: N. López-Pintó, C. J. Jensen, Z. Chen, Z. Tan, M. O. Liedke, M. Butterling, A. Wagner, J. Herrero-Martín, E. Menéndez, J. Nogués, K. Liu, J. Sort
TITLE: Solid-state magneto-ionic control of magnetization and exchange bias in CoMnN single-layer films
TYPE OF PRESENTATION: Invited
CONGRESS: ICM 2024
PUBLICATION:
MEETING PLACE: Bologne, Italy
YEAR: 2024

230- AUTHORS: J. Sort, N. López, A. Arredondo, Z. Tan, Z. Ma, I. Spasojević, M. Peda, J. de Rojas, C. J. Jensen, Z. Chen, A. Quintana, E. Pellicer, K. Liu, J. Nogués, E. Menéndez
TITLE: Nitrogen magneto-ionics: recent progress and prospective applications
TYPE OF PRESENTATION: Invited
CONGRESS: ICM 2024
PUBLICATION:
MEETING PLACE: Bologne, Italy
YEAR: 2024

231- AUTHORS: I. Fina, T. Song, H. Tan, T. Zakusylo, A. Quintana, N. Dix, P. Koutsogiannis, J. L. Ortola, J. Lyu, S. Estandía, C. Magén, J. A. Pardo, V. Lenzi, J. Silva, L. Marques, J. Sort, F. Sánchez
TITLE: Epitaxial ferroelectric hafnia as a suitable platform for fundamental and novel phenomena investigations
TYPE OF PRESENTATION: Invited
CONGRESS: CMD
PUBLICATION:
MEETING PLACE: Braga, Portugal
YEAR: 2024

232- AUTHORS: J. Sort
TITLE: Nitrogen magneto-ionics: fundamentals and prospective applications
TYPE OF PRESENTATION: Invited
CONGRESS: Invited seminar at CEITEC
PUBLICATION:
MEETING PLACE: Brno, Czech Republic
YEAR: 2024

233- AUTHORS: J. Sort, N. López, A. Arredondo, Z. Tan, Z. Ma, I. Spasojević, M. Peda, N. Casañ-Pastor, A. Quintana, E. Pellicer, C. J. Jensen, Z. Chen, F. Celegato, P. Tiberto, K. Liu, J. Nogués, E. Menéndez
TITLE: Recent Progress in Nitrogen Magneto-ionics: New Materials and Phenomena for Brain-inspired Memory Devices
TYPE OF PRESENTATION: Invited
CONGRESS: MMM-Intermag 2025
PUBLICATION:
MEETING PLACE: New Orleans, USA
YEAR: 2025

234- AUTHORS: J. Nogués, A. Lafuente, A. Flucksman, A.G. Roca, J. Sort, C. Nogués, O. Benny, B. Sepulveda
TITLE: Magnetoplasmonic Nanocapsules as Wirelessly Controlled Nanotherapies
TYPE OF PRESENTATION: Invited
CONGRESS: MMM-Intermag 2025
PUBLICATION:
MEETING PLACE: New Orleans, USA
YEAR: 2025

235- AUTHORS: A. Barrera, E. Fourneau, T. Gunkel, N. Lejeune, S. Marinković, J. A. Arregi, M. Stano, N. Bort-Soldevila, J. Cunill-Subiranas, N. Del-Valle, N. Mestres, Ll. Balcells, A. Smekhova, S. Valencia, I. Spasojević, J. Sort, C. Navau, V. Uhlíř, S. Bending, A. V. Silhanek, A. Palau
TITLE: Manipulating Magnetic Nanostructures through Field-Induced Ionic Migration and Flower-like Magnetic Metasurfaces
TYPE OF PRESENTATION: Invited
CONGRESS: 10th International Conference on Magnetism and Superconductivity /
PUBLICATION:
MEETING PLACE: Mugla, Turkey
YEAR: 2025

236- AUTHORS: I. Spasojević, Z. Ma, A. Barrera, F. Celegato, A. Magni, S. Ruiz-Gómez, M. Foerster, A. Palau, P. Tiberto, K. S. Buchanan, J. Sort
TITLE: Unraveling the Magneto-Ionic Vortex: Formation and Control
TYPE OF PRESENTATION: Invited
CONGRESS: 10th International Conference on Magnetism and Superconductivity /
PUBLICATION:
MEETING PLACE: Mugla, Turkey
YEAR: 2025

237- AUTHORS: J. Sort, N. López-Pintó, Z. Ma, I. Spasojević, Z. Tan, M. Peda, A. Quintana, E. Pellicer, J. Nogués, E. Menéndez
TITLE: Magneto-ionic Phenomena for Low-power Memory and Prospective Synaptic Applications
TYPE OF PRESENTATION: Semi-plenary
CONGRESS: 10th International Conference on Magnetism and Superconductivity /
PUBLICATION:
MEETING PLACE: Mugla, Turkey
YEAR: 2025

Oral/Poster Presentations in Conferences

1- AUTHORS: J. Sort, J. Nogués, X. Amils, S. Suriñach, J.S. Muñoz, M.D. Baró
TITLE: "Enhancement of Room Temperature Coercivity by Mechanical Alloying Ferromagnetic and Antiferromagnetic Materials"
TYPE OF PRESENTATION: ORAL
CONGRESS: International Workshop on Magnetic Fine Particles and Their Relevance to Materials Science
PUBLICATION:
MEETING PLACE: Barcelona, Spain
YEAR: 1999

2- AUTHORS: J. Sort, J. Nogués, X. Amils, S. Suriñach, J.S. Muñoz, M.D. Baró
TITLE: "Room temperature coercivity enhancement in mechanically alloyed ferromagnetic - antiferromagnetic composites"
TYPE OF PRESENTATION: POSTER
CONGRESS: MRS Fall Meeting
PUBLICATION: Mat. Res. Soc. Symp. Proc., 581 (2000) 641.
MEETING PLACE: Boston, USA
YEAR: 1999

3- AUTHORS: J. Sort, J. Nogués, S. Suriñach, J.S. Muñoz, M.D. Baró
TITLE: "Enhancement of the room temperature coercivity and energy product in ball milled ferromagnetic-antiferromagnetic composites"
TYPE OF PRESENTATION: POSTER
CONGRESS: NATO-ASI in Magnetic Storage
PUBLICATION:
MEETING PLACE: Rhodes, Greece
YEAR: 2000

4- AUTHORS: J. Nogués, J. Sort, X. Amils, J.S. Muñoz, S. Suriñach, M.D. Baró
TITLE: "Aumento de la coercitividad y el producto de energía en imanes permanentes inducido por el acoplamiento ferromagnético-antiferromagnético"
TYPE OF PRESENTATION: POSTER
CONGRESS: Fira Internacional de technologies emergents, ciencia i empresa
PUBLICATION:
MEETING PLACE: Barcelona, Spain
YEAR: 2000

5- AUTHORS: J. Sort, J. Nogués, S. Suriñach, J.S. Muñoz, M.D. Baró, F. Dupont, G. Chouteau
TITLE: "Coercivity and squareness enhancement in SmCo₅-NiO"
TYPE OF PRESENTATION: ORAL
CONGRESS: 8th Joint MMM-Intermag
PUBLICATION:
MEETING PLACE: San Antonio, USA
YEAR: 2001

6- AUTHORS: J. Sort, J. Nogués, S. Suriñach, J.S. Muñoz, M.D. Baró
TITLE: "Endurecimiento magnético inducido por el acoplamiento de materiales ferromagneticos con antiferromagneticos"
TYPE OF PRESENTATION: ORAL
CONGRESS: Reunion Nacional de Física del Estado Sólido
PUBLICATION:
MEETING PLACE: Madrid, Spain
YEAR: 2001

7- AUTHORS: Ll. Casas, A. Roig, E. Rodríguez, E. Molins, J. Tejada and J. Sort
TITLE: "Silica Aerogel-Iron Oxide Nanocomposites: Structural and Magnetic Properties".
TYPE OF PRESENTATION: ORAL
CONGRESS: 6th International Symposium on Aerogels
PUBLICATION:
MEETING PLACE: Albuquerque, USA
YEAR: 2000

8- AUTHORS: M.M. Rico, J. Sort, S. Suriñach, J.S. Muñoz, J.M. Greneche, G.A. Pérez-Alcázar, M.D. Baró
TITLE: "Influence of the B content on the structural and magnetic properties of Fe₆₀Mn₁₀Al_{30-x}B_x prepared by mechanical alloying"
TYPE OF PRESENTATION: POSTER
CONGRESS: ISMANAM 2001
PUBLICATION: Materials Science Forum 368-388 (2002) 497
MEETING PLACE: Ann Arbor, Michigan, USA
YEAR: 2001

9- AUTHORS : J. Sort, J. Nogués, S. Suriñach, J.S. Muñoz, M.D. Baró, E. Chappel, F. Dupont, G. Chouteau

TITLE: "Coercivity and Squareness Enhancement in Ball Milled SmCo₅- Antiferromagnetic Powders"

TYPE OF PRESENTATION: ORAL

CONGRESS: Joint of European Magnetic Symposia (JEMS'01)

PUBLICATION: Journal of Magnetism and Magnetic Materials 242-245 (2002) 1287

MEETING PLACE: Grenoble, France

YEAR: 2001

10- AUTHORS: J. Sort, J. Nogués, S. Suriñach, J.S. Muñoz, M.D. Baró

TITLE: "Magnetic Hardening Induced by Ferromagnetic-Antiferromagnetic Coupling"

TYPE OF PRESENTATION: ORAL

CONGRESS: International Conference on Advances in Materials and Processing Technologies (AMPT'01)

PUBLICATION:

MEETING PLACE: Leganés, Madrid, Spain

YEAR: 2001

11- AUTHORS: J. Sort, J. Nogués, S. Suriñach, J.S. Muñoz, M.D. Baró

TITLE: "Correlation between stacking fault formation, allotropic phase transformations and magnetic properties of ball milled cobalt"

TYPE OF PRESENTATION: ORAL

CONGRESS: Rapidly Quenched and Metastable Materials RQ11

PUBLICATION:

MEETING PLACE: Oxford, England

YEAR: 2002

12- AUTHORS: J. Sort, J. Nogués, S. Suriñach, J.S. Muñoz, M.D. Baró

TITLE: "Endurecimiento magnético inducido por el acoplamiento de materiales ferromagnéticos antiferromagnéticos"

TYPE OF PRESENTATION: ORAL

CONGRESS: VII CONGRESS Nacional de Materiales

PUBLICATION:

MEETING PLACE: Madrid, Spain

YEAR: 2002

13- AUTHORS: J. Sort, J. Nogués, S. Suriñach, J.S. : Muñoz, M.D. Baró, S. De Brion, G. Chouteau

TITLE: "Hard magnetic properties of SmCo₅ + antiferromagnetic (NiO) and SmCo₅ + paramagnetic (CoO) composites synthesized by ball milling"

TYPE OF PRESENTATION: POSTER

CONGRESS: Conference on Magnetism and Magnetic Materials

PUBLICATION:

MEETING PLACE: Tampa, USA

YEAR: 2002

14- AUTHORS: J. Nogués, J. Sort, S. Suriñach, J.S. Muñoz, M.D. Baró, J. Bobo, U. Lüders, E. Haanappel, M.R. Fitzsimmons, A. Hoffmann, J.W. Cai

TITLE: "High field induced changes in exchange biased bilayers"

TYPE OF PRESENTATION: POSTER

CONGRESS: Conference on Magnetism and Magnetic Materials

PUBLICATION:
MEETING PLACE: Tampa, USA
YEAR: 2002

15- AUTHORS: J. Sort, F. Garcia, B. Rodmacq, S. Auffret, B. Dieny
TITLE: "Large enhancement of perpendicular exchange bias by introduction of an ultrathin non-magnetic layer between the ferromagnetic and antiferromagnetic layers"
TYPE OF PRESENTATION: POSTER
CONGRESS: International Conference on Magnetism ICM 2003
PUBLICATION: Journal of Magnetism and Magnetic Materials (2004) en prensa
MEETING PLACE: Rome, Italy
YEAR: 2003

16- AUTHORS: M. Gich, Ll. Casas, A. Roig, E. Molins, M. Popovici, J. Sort, S. Suriñach, M.D. Baró, J.S. Muñoz, J. Nogués, L. Morellon and M.R. Ibarra
TITLE: "Ultralight transparent magnets"
TYPE OF PRESENTATION: POSTER
CONGRESS: International Conference on Magnetism ICM 2003
PUBLICATION:
MEETING PLACE: Rome, Italy
YEAR: 2003

17- AUTHORS: J. Camarero, Y. Pennec, F. Garcia, J. Sort, S. Pizzini, J. Vogel, B. Dieny
TITLE: "Effects of interfacial exchange coupling on magnetization reversal in perpendicular exchange-biased (Pt/Co)_n-FeMn systems"
TYPE OF PRESENTATION: ORAL
CONGRESS: XVIII International colloquium on magnetic films and surfaces
PUBLICATION:
MEETING PLACE: Madrid, Spain
YEAR: 2003

18- AUTHORS: J. Nogués, J. Sort, S. Suriñach, J.S. Muñoz, M.D. Baró, J.F. Bobo, U. Lüders, E. Haanappel, M.R. Fitzsimmons, A. Hoffmann, J.W. Cai
TITLE: "Isothermal tuning of exchange bias using pulsed fields"
TYPE OF PRESENTATION: ORAL
CONGRESS: XVIII International colloquium on magnetic films and surfaces
PUBLICATION:
MEETING PLACE: Madrid, Spain
YEAR: 2003

19- AUTHORS: V. Langlais, S. Doppiu, J. Sort, S. Suriñach, J.S. Muñoz, M.D. Baró, J. Nogués
TITLE: "Reduction of NiO at room temperature using ball milling in hydrogen"
TYPE OF PRESENTATION: POSTER
CONGRESS: 100 RSEF-RSEQ, XXIX Bienal de Física y Química
PUBLICATION:
MEETING PLACE: Madrid, Spain
YEAR: 2003

20- AUTHORS: J. Sort, S. Suriñach, J.S. Muñoz, M.D. Baró, M. Wojcik, E. Jedryka, S. Nadolski, N. Shedulko, J. Nogués
TITLE: "Role of stacking faults in the structural and magnetic properties of ball milled Co"
TYPE OF PRESENTATION: POSTER
CONGRESS: International Conference on Magnetism ICM 2003
PUBLICATION:
MEETING PLACE: Rome, Italy
YEAR: 2003

21- AUTHORS: J. Sort, H. Glaczynska, U. Ebels, M. Giersig, J. Rybczynski, B. Dieny
TITLE: "Exchange bias effects in nanosized dots prepared by nanosphere lithography"
TYPE OF PRESENTATION: POSTER
CONGRESS: Innovative Mass Storage Technologies Workshop, IMST (MINATEC 2003)
PUBLICATION:
MEETING PLACE: Grenoble, France
YEAR: 2003

22- AUTHORS : J. Sort, B. Rodmacq, S. Auffret, B. Dieny
TITLE: "Pinned synthetic ferrimagnets with perpendicular anisotropy and tunable exchange bias: promising structures to enhance performance of spin valves and tunnel junctions with perpendicular anisotropy"
TYPE OF PRESENTATION: POSTER
CONGRESS: Innovative Mass Storage Technologies Workshop, IMST (MINATEC 2003)
PUBLICATION:
MEETING PLACE: Grenoble, France
YEAR: 2003

23- AUTHORS: J. Sort, V. Langlais, S. Doppiu, B. Dieny, S. Suriñach, J.S. Muñoz, M.D. Baró, Ch. Laurent, J. Nogués
TITLE: "Exchange coupling effects in Fe nanoparticles embedded in a Cr₂O₃ matrix"
TYPE OF PRESENTATION: POSTER
CONGRESS: Trends in Nanotechnology 2003
PUBLICATION: Nanotechnology 15 (2004) S211
MEETING PLACE: Salamanca, Spain
YEAR: 2003

24- AUTHORS: M. Gich, Ll. Casas, A. Roig, M. Popovici, E. Molins, J. Sort, J. Nogués
TITLE: "Ultralight transparent magnets"
TYPE OF PRESENTATION: ORAL
CONGRESS: 7th International Symposium on Aerogels
PUBLICATION:
MEETING PLACE: Alexandria, Virginia, USA
YEAR: 2003

25- AUTHORS: J. Sort, H. Glaczynska, U. Ebels, M. Giersig, J. Rybczynski, B. Dieny
TITLE: "Exchange bias effects in submicron dots prepared by nanosphere lithography"
TYPE OF PRESENTATION: POSTER
CONGRESS: 9th Joint MMM/Intermag
PUBLICATION:

MEETING PLACE: Anaheim, California, USA
YEAR: 2004

26- AUTHORS: J. Sort, B. Rodmacq, S. Auffret, B. Dieny
TITLE: "Pinned synthetic ferrimagnets with perpendicular anisotropy and tuneable exchange bias"
TYPE OF PRESENTATION: ORAL
CONGRESS: 9th Joint MMM/Intermag
PUBLICATION:
MEETING PLACE: Anaheim, California, USA
YEAR: 2004

27- AUTHORS: J. Sort, V. Baltz, H. Glaczynska, S. Landis, B. Rodmacq, U. Ebels, M. Giersig, J. Rybczynski, B. Dieny
TITLE: "Comparative study of exchange bias properties in ferromagnetic-antiferromagnetic dots of different shapes prepared by different nanostructuring techniques"
TYPE OF PRESENTATION: POSTER
CONGRESS: 4th International Symposium on Metallic Multilayers, MML 2004
PUBLICATION:
MEETING PLACE: Boulder, Colorado, USA
YEAR: 2004

28- AUTHORS: V. Langlais, S. Doppiu, J. Sort, B. Dieny, Ch. Laurent, S. Suriñach, J. S. Muñoz, M. D. Baró, J. Nogués
TITLE: "Structural and magnetic properties of metallic ferromagnetic – oxide antiferromagnetic nanocomposites prepared by reduction under H₂ atmosphere"
TYPE OF PRESENTATION: POSTER
CONGRESS: 7th Internacional Conference on Nanostructured Materials
PUBLICATION:
MEETING PLACE: Wiesbaden, Germany
YEAR: 2004

29- AUTHORS: M. Gich, A. Roig, M. Popovici, E. Molins, J. Sort, D. Baró, S. Suriñach, J. S. Muñoz, J. Nogués
TITLE: "Several synthetic routes to obtain ultra-light and/or transparent magnetic materials"
TYPE OF PRESENTATION: POSTER
CONGRESS: III Reunión de Física del Estado Sólido
PUBLICATION:
MEETING PLACE: San Sebastián, Spain
YEAR: 2004

30- AUTHORS: V. Baltz, J. Sort, B. Rodmacq, B. Dieny, S. Landis
TITLE: "Reseaux de plots ferromagnetique—antiferromagnetique sub 100 nm a anisotropie planaire"
TYPE OF PRESENTATION: POSTER
CONGRESS: Colloque Louis Néel
PUBLICATION:
MEETING PLACE: Grenoble, France
YEAR: 2004

31- AUTHORS: V. Baltz, J. Sort, S. Landis, B. Rodmacq, B. Dieny
TITLE: "Exchange bias in ferromagnetic-antiferromagnetic bilayers sputtered onto pre-patterned 90nm square dots"
TYPE OF PRESENTATION: POSTER
CONGRESS: Joint of European Magnetic Symposia
PUBLICATION:
MEETING PLACE: Dresden, Germany
YEAR: 2004

32- AUTHORS: J. Camarero, J. Miguel, F. Garcia, J. Vogel, S. Pizzini, F. Romanens, J. Sort, N. Brookes, B. Dieny, J. Goedkoop
TITLE: "Magnetization reversal study of perpendicular exchange coupled [Pt/Co]/FeMn films"
TYPE OF PRESENTATION: POSTER
CONGRESS: Joint of European Magnetic Symposia
PUBLICATION:
MEETING PLACE: Dresden, Germany
YEAR: 2004

33- AUTHORS: F. Romanens, Y. Pennec, J. Sort, J. Vogel, B. Dieny, S. Pizzini
TITLE: "Magnetization dynamics of exchange biased [Pt/Co]_n multilayers studied by Kerr magnetometry"
TYPE OF PRESENTATION: POSTER
CONGRESS: Joint of European Magnetic Symposia
PUBLICATION:
MEETING PLACE: Dresden, Germany
YEAR: 2004

34- AUTHORS: F. Romanens, J. Sort, J. Camarero, F. Yokaichiya, Y. Pennec, J. Vogel, B. Dieny, S. Pizzini
TITLE: "Magnetization dynamics of (Pt/Co)-Pt-FeMn multilayers studied by Kerr magnetometry and time resolved Kerr microscopy"
TYPE OF PRESENTATION: ORAL
CONGRESS: Internacional Workshop on Exchange Biased Magnetic Nanostructures
PUBLICATION:
MEETING PLACE: Anglet, France
YEAR: 2004

35- AUTHORS: J. Camarero, J. Sort, A. Hoffmann, J. M. García-Martín, B. Dieny, R. Miranda, J. Nogués
TITLE: Anisotropy-dependent asymmetric magnetization reversal in exchange biased systems
TYPE OF PRESENTATION: ORAL
CONGRESS: Internacional Workshop on Exchange Biased Magnetic Nanostructures
PUBLICATION:
MEETING PLACE: Anglet, France
YEAR: 2004

36- AUTHORS: V. Baltz, J. Sort, S. Landis, B. Rodmacq, B. Dieny

TITLE: Size effects on exchange bias in sub-100 nm ferromagnetic-antiferromagnetic dots deposited onto pre-patterned substrates

TYPE OF PRESENTATION: POSTER

CONGRESS: Internacional Workshop on Exchange Biased Magnetic Nanostructures

PUBLICATION:

MEETING PLACE: Anglet, France

YEAR: 2004

37- AUTHORS: J. Camarero, J. Miguel, F. Garcia, J. Vogel, S. Pizzini, F. Romanens, J. Sort, N. B. Brookes, B. Dieny, J. B. Goedkoop

TITLE: Study of the magnetization reversal of perpendicular exchange coupled [Fe/Co]_n/FeMn films using soft x-ray scattering

TYPE OF PRESENTATION: POSTER

CONGRESS: Internacional Workshop on Exchange Biased Magnetic Nanostructures

PUBLICATION:

MEETING PLACE: Anglet, France

YEAR: 2004

38- AUTHORS: V. Baltz, J. Sort, S. Landis, B. Rodmacq, B. Dieny

TITLE: "Ferromagnetic-antiferromagnetic exchange biased systems deposited onto sub-100 nm pre-patterned dots"

TYPE OF PRESENTATION: POSTER

CONGRESS: Trends in Nanotechnology

PUBLICATION:

MEETING PLACE: Segovia, Spain

YEAR: 2004

39- AUTHORS: V. Baltz, J. Sort, S. Landis, B. Rodmacq, B. Dieny

TITLE: "Ferromagnetic-antiferromagnetic exchange biased bilayers deposited on sub-100 nm dots"

TYPE OF PRESENTATION: ORAL

CONGRESS: 49th MMM Conference

PUBLICATION:

MEETING PLACE: Jacksonville, Florida, USA

YEAR: 2004

40- AUTHORS: V. Baltz, J. Sort, S. Landis, B. Rodmacq, B. Dieny

TITLE: Tailoring size effects on the exchange bias of ferromagnetic-antiferromagnetic nanodots

TYPE OF PRESENTATION: ORAL

CONGRESS: APS (American Physical Society), March meeting

PUBLICATION:

MEETING PLACE: Los Angeles, USA

YEAR: 2005

41- AUTHORS: V. Baltz, J. Sort, S. Landis, B. Rodmacq, B. Dieny

TITLE: "Tailoring size effectson the exchange bias (enhancement/reduction) of sub- 100 nm ferromagnetic/antiferromagnetic nanostructures"

TYPE OF PRESENTATION: ORAL

CONGRESS: Journées des Nanosciences Nanotechnologies en Rhône-Alpes

PUBLICATION:
MEETING PLACE: St. Martin d'Herès (France)
YEAR: 2005

42- AUTHORS: J. Sort, J. Nogués, S. H. Chung, K. Buchanan, V. Novosad, A. Hoffmann
TITLE: Exchange biased vortices
TYPE OF PRESENTATION: ORAL
CONGRESS: APS (American Physical Society), March meeting
PUBLICATION:
MEETING PLACE: Los Angeles, USA
YEAR: 2005

43- AUTHORS: S. Bruck, J. Sort, V. Baltz, S. Suriñach, J. S. Muñoz, M. D. Baró, B. Dieny, J. Nogués
TITLE: Exchange bias effects in [Pt/Co]–IrMn multilayers with perpendicular anisotropy
TYPE OF PRESENTATION: POSTER
CONGRESS: Meeting of the German Physical Society
PUBLICATION:
MEETING PLACE: Berlin, Germany
YEAR: 2005

44- AUTHORS: J. Sort, A. Hoffmann, S.-H. Chung, K. S. Buchanan, M. Grimsditch, M. D. Baró, B. Dieny, J. Nogués
TITLE: Exchange biased vortices
TYPE OF PRESENTATION: POSTER
CONGRESS: Nanospain (2nd meeting)
PUBLICATION:
MEETING PLACE: Barcelona, Spain
YEAR: 2005

45- AUTHORS: M. Gich, A. Roig, J. Sort, J. Nogués, C. Frontera, M. Popocivi, E. Molins
TITLE: Sol-gel synthesis of ϵ -Fe₂O₃ nanoparticles and tuning of the material magnetic properties
TYPE OF PRESENTATION: ORAL
CONGRESS: Functional Materials for the 21st Century
PUBLICATION:
MEETING PLACE: Edinburgh, UK
YEAR: 2005

46- AUTHORS: A. Concustell, J. Sort, T.G. Woodcock, A. Gimazov, S. Suriñach, A. Gebert, J. Eckert, A. P. Zhilyaev, M.D. Baró
TITLE: Microstructure and microhardness in nanostructured Ti₆₀Cu₁₄Ni₁₂Sn₄Nb₁₀ prepared by Cu-mould casting and high pressure torsión
TYPE OF PRESENTATION: POSTER
CONGRESS: ISMANAM 2005
PUBLICATION:
MEETING PLACE: Paris, France
YEAR: 2005

47- AUTHORS: A. Concustell, J. Sort, T.G. Woodcock, A. Gimazov, S. Suriñach, A. Gebert, J. Eckert, A. P. Zhilyaev, M.D. Baró
TITLE: Enhanced microhardness in nanocrystalline $\text{Ti}_{60}\text{Cu}_{14}\text{Ni}_{12}\text{Sn}_4\text{Ta}_{10}$ processed by Cu-mould casting and high pressure torsion
TYPE OF PRESENTATION: ORAL
CONGRESS: The 4th International Conference on Bulk Metallic Glasses
PUBLICATION:
MEETING PLACE: Tennessee, USA
YEAR: 2005

48- AUTHORS: M. Gich, A. Roig, J. Sort, J. Nogués, C. Frontera, M. Popocivi, E. Molins
TITLE: Sol-gel synthesis of epsilon Fe_2O_3 nanoparticles and tuning of the material magnetic properties
TYPE OF PRESENTATION: ORAL
CONGRESS: EUROMAT2005
PUBLICATION:
MEETING PLACE: Praga, Check Republic
YEAR: 2005

49- AUTHORS: V. Baltz, J. Sort, S. Landis, B. Rodmacq and B. Dieny
TITLE: Effets de tailles finies sur les proprietes d'anisotropie magnetique d'echange
TYPE OF PRESENTATION: ORAL
CONGRESS: Colloque Louis Néel2005
PUBLICATION:
MEETING PLACE: Grenoble, France
YEAR: 2005

50- AUTHORS: E. Menéndez, J. Sort, V. Langlais, A. Zhilyaev, J. S. Muñoz, S. Suriñach, J. Nogués, M.D. Baró
TITLE: Cold compaction of metal-ceramic composites using high pressure torsion
TYPE OF PRESENTATION: POSTER
CONGRESS: ISMANAM2005
PUBLICATION:
MEETING PLACE: Paris, France
YEAR: 2005

51- AUTHORS: G. Salazar, J. Sort, , S. Suriñach, J. Nogués, M.D. Baró, V. Skumryev, J. Nogués
TITLE: Synthesis and characterisation of core-shell bi-magnetic nanoparticles
TYPE OF PRESENTATION: ORAL
CONGRESS: Making Europe more attractive for researchers (Marie Curie Action)
PUBLICATION:
MEETING PLACE: Pisa, Italy
YEAR: 2005

52- AUTHORS : A. Bollero, V. Baltz, J. Sort, B. Rodmacq, and B. Dieny
TITLE: Exchange bias properties in magnetic multilayered films
TYPE OF PRESENTATION: ORAL
CONGRESS: Making Europe more attractive for researchers (Marie Curie Action)
PUBLICATION:

MEETING PLACE: Pisa, Italy
YEAR: 2005

53- AUTHORS: J. Sort, A. Hoffmann, Seok-Hwan Chung, K. Buchanan, G. Salazar, M. Grimsditch, M. D. Baró, B. Dieny, J. Nogués
TITLE: Magnetization reversal in ferromagnetic-antiferromagnetic dots: exchange biased vortices
TYPE OF PRESENTATION: ORAL
CONGRESS: 50th Magnetism and Magnetic Materials Conference
PUBLICATION:
MEETING PLACE: San José, California, USA
YEAR: 2005

54- AUTHORS: A. Bollero, V. Baltz, L. Buda, B. Rodmacq, J. Sort, B. Dieny
TITLE: Exchange-bias without antiferromagnetic layer in (Pt/Co) multilayer/Permalloy systems
TYPE OF PRESENTATION: ORAL
CONGRESS: 50th Magnetism and Magnetic Materials Conference
PUBLICATION:
MEETING PLACE: San José, California, USA
YEAR: 2005

55- AUTHORS: J. Camarero, J. Miguel, F. Garcia, F. Romanens, J. Vogel, S. Pizzini, N. B. Brookes, J. Sort, B. Dieny, J. B. Goedkoop
TITLE: Magnetization reversal, asymmetry, and role of uncompensated spins in perpendicular exchange coupled systems
TYPE OF PRESENTATION: ORAL
CONGRESS: 50th Magnetism and Magnetic Materials Conference
PUBLICATION:
MEETING PLACE: San José, California, USA
YEAR: 2005

56- AUTHORS: V. Baltz, J. Sort, S. Landis, B. Rodmacq, B. Dieny
TITLE: Thermal activation effects on the exchange bias of ferromagnetic-antiferromagnetic nanostructures
TYPE OF PRESENTATION: ORAL
CONGRESS: 50th Magnetism and Magnetic Materials Conference
PUBLICATION:
MEETING PLACE: San José, California, USA
YEAR: 2005

57- AUTHORS: F. Romanens, S. Pizzini, F. Yokaichiya, M. Bonfim, Y. Pennec, J. Camarero, J. Vogel, J. Sort, F. Garcia, B. Rodmacq, B. Dieny
TITLE: Asymmetric magnetization reversal of perpendicular exchange biased (Pt/Co) multilayers
TYPE OF PRESENTATION: POSTER
CONGRESS: 50th Magnetism and Magnetic Materials Conference
PUBLICATION:
MEETING PLACE: San José, California, USA
YEAR: 2005

58- AUTHORS: A. Concustell, J. Sort, G. Alcalá, S. Mato, A. Gebert, J. Eckert, M. D. Baró
TITLE: Shear-band formation and mechanical softening of different bulk metallic glasses during nanoindentation
TYPE OF PRESENTATION: ORAL
CONGRESS: MRS Fall Meeting
PUBLICATION:
MEETING PLACE: Boston, USA
YEAR: 2005

59- AUTHORS: J. Sort, M.D. Baró, G. Salazar, A. Hoffmann, S.H. Chung, K. Buchanan, M. Grimsditch, V. Baltz, S. Landis, B. Rodmacq, B. Dieny, J. Nogués
TITLE: Exchange bias in ferromagnetic-antiferromagnetic nanostructures
TYPE OF PRESENTATION: ORAL
CONGRESS: XXX Reunión Bienal de la Real Sociedad Española de Física
PUBLICATION:
MEETING PLACE: Orense, Spain
YEAR: 2005

60- AUTHORS: A. Concustell, J. Sort, G. Alcalá, S. Mato, A. Gebert, J. Eckert and M. D. Baró
TITLE: Plastic deformation and mechanical softening of Pd₄₀Cu₃₀Ni₁₀P₂₀ bulk metallic glass during nanoindentation
TYPE OF PRESENTATION: ORAL
CONGRESS: XIV International Materials Research Congress
PUBLICATION:
MEETING PLACE: Cancún, Mexico
YEAR: 2005

61- AUTHORS: G. Salazar-Alvarez, J. Sort, A. Uheida, M. Muhammed, S. Suriñach, M.D. Baró, J. Nogués
TITLE: Transformation of superparamagnetic ϵ -Fe₂O₃ nanoparticles into thermally-blocked by adsorption of cobalt (II)
TYPE OF PRESENTATION: ORAL
CONGRESS: Trends in Nanotechnology 2005
PUBLICATION:
MEETING PLACE: Oviedo, Spain
YEAR: 2005

62- AUTHORS: G. Salazar-Alvarez, J. Sort, S. Suriñach, M. D. Baró, V. Skumryev, J. Nogués
TITLE: Synthesis and characterization of core-shell bi-magnetic nanoparticles
TYPE OF PRESENTATION: POSTER
CONGRESS: Marie-Curie European Conf.
PUBLICATION:
MEETING PLACE: Pisa/Livorno, Italy
YEAR: 2005

63- AUTHORS: N. Van Steenberge, J. Sort, A. Concustell, J. Das, S. Suriñach, J. Eckert, M. D. Baró
TITLE: Crystallization behavior and nanoindentation measurements of $\text{Zr}_{58.5}\text{Ti}_{8.2}\text{Cu}_{14.2}\text{Ni}_{11.4}\text{Al}_{7.7}$
TYPE OF PRESENTATION: POSTER
CONGRESS: The fifth international bulk metallic glasses conference
PUBLICATION:
MEETING PLACE: Awaji, Japan
YEAR: 2006

64- AUTHORS: N. Van Steenberge, J. Das, A. Concustell, J. Sort, S. Suriñach, J. Eckert, M. D. Baró
TITLE: Influence of annealing on the microstructure and hardness of $\text{Ti}_{67.79}\text{Fe}_{28.36}\text{Sn}_{3.85}$ nanocomposite rods
TYPE OF PRESENTATION: ORAL
CONGRESS: ISMANAM 2006
PUBLICATION:
MEETING PLACE: Warsaw, Poland
YEAR: 2006

65- AUTHORS: E. Menéndez, J. Sort, S. Suriñach, J. Nogués, M. D. Baró
TITLE: Microstructure and magnetic properties of $\alpha\text{-Al}_2\text{O}_3/\text{Co}$ nanocomposite powders prepared by ball milling
TYPE OF PRESENTATION: ORAL
CONGRESS: ISMANAM 2006
PUBLICATION:
MEETING PLACE: Warsaw, Poland
YEAR: 2006

66- AUTHORS: N. Van Steenberge, J. Das, A. Concustell, J. Sort, S. Suriñach, J. Eckert, M. D. Baró
TITLE: Indentation size effect in Zr-based bulk metallic glasses
TYPE OF PRESENTATION: ORAL
CONGRESS: BMG Summer school
PUBLICATION:
MEETING PLACE: Torino, Italy
YEAR: 2006

67- AUTHORS: A. Concustell, J. Sort, G. Alcalá, S. Mato, A. Gebert, J. Eckert, A. L. Greer and M. D. Baró
TITLE: Plastic and anelastic deformation and mechanical softening of $\text{Pd}_{40}\text{Cu}_{30}\text{Ni}_{10}\text{P}_{20}$ bulk metallic glass during nanoindentation
TYPE OF PRESENTATION: ORAL
CONGRESS: Eighth International Workshop on Non-Crystalline Solids
PUBLICATION:
MEETING PLACE: Gijón, Spain
YEAR: 2006

68- AUTHORS: A. Bollero, L.D. Buda-Prejbeanu, V. Baltz, J. Sort, B. Rodmacq, B. Dieny
TITLE: Exchange bias in systems composed of coupled ferromagnetic bilayers

TYPE OF PRESENTATION: POSTER
CONGRESS: Innovative Mass Storage Technologies 2006
PUBLICATION:
MEETING PLACE: Grenoble, France
YEAR: 2006

69- AUTHORS: J. Sort, K.S. Buchanan, M. Grimsdicht, S.-H. Chung, V. Novosad, A. Hoffmann, G. Salazar-Alvarez, M. D. Baró, B. Dieny, J. Nogués
TITLE: Controlling Magnetic Vortices through Exchange Bias
TYPE OF PRESENTATION: POSTER
CONGRESS: INTERMAG 2006
PUBLICATION:
MEETING PLACE: San Diego, USA
YEAR: 2006

70- AUTHORS: J. Sort, S. Brück, V. Baltz, S. Suriñach, J.S. Muñoz, B. Dieny, M.D. Baró, J. Nogués
TITLE: Exploiting exchange bias length scales to fully tailor double-shifted hysteresis loops
TYPE OF PRESENTATION: ORAL
CONGRESS: INTERMAG 2006
PUBLICATION:
MEETING PLACE: San Diego, USA
YEAR: 2006

71- AUTHORS: V. Baltz, J. Sort, A. Bollero, S. Landis, B. Rodmacq, B. Dieny
TITLE: Finite size effects on the exchange bias properties of ferromagnetic / antiferromagnetic bilayers
TYPE OF PRESENTATION: ORAL
CONGRESS: INTERMAG 2006
PUBLICATION:
MEETING PLACE: San Diego, USA
YEAR: 2006

72- AUTHORS: E. Menéndez, J. Sort, A. Concustell, S. Suriñach, K. V. Rao, J. Farran, S. C. Deevi, J. Nogués, M. D. Baró
TITLE: Periodic arrays of micron and submicron magnetic structures prepared by selective deformation of non-magnetic substrates
TYPE OF PRESENTATION: ORAL
CONGRESS: Jornada de Nanofabricación
PUBLICATION:
MEETING PLACE: Barcelona, Spain
YEAR: 2006

73- AUTHORS: G. Salazar-Alvarez, J. Sort, A. Uheida, M. Muhammed, S. Suriñach, M. D. Baró, J. Nogués
TITLE: Controlling the blocking temperature of iron oxide nanoparticles via adsorption/desorption of Co(II) ions
TYPE OF PRESENTATION: ORAL
CONGRESS: XVIII Latin American Symposium of Solid State Physics
PUBLICATION:

MEETING PLACE: Puebla, Mexico
YEAR: 2006

74- AUTHORS: N. Van Steenberge, A. Concustell, J. Sort, J. Das, A. Gebert, S. Suriñach, J. Eckert, M. D. Baró
TITLE: Improvement of plasticity of $\text{Zr}_{55}\text{Cu}_{30}\text{Al}_{10}\text{Ni}_5$ induced by low temperature annealing
TYPE OF PRESENTATION: POSTER
CONGRESS: Summer school on women in nano: Career Research Trends
PUBLICATION:
MEETING PLACE: Coma-ruga, Spain
YEAR: 2007

75- AUTHORS: M. Tanase, A. Petford-Long, R. Divan, L. Ocola, K. S. Buchanan, J. Sort
TITLE: Magnetization reversal in exchange biased nanostructures
TYPE OF PRESENTATION: POSTER
CONGRESS: APS/CNM/EMC Users Meeting 2007
PUBLICATION:
MEETING PLACE: Argonne, USA
YEAR: 2007

76- AUTHORS: G. Salazar-Alvarez, J. Sort, S. Suriñach, M.D. Baró, J. Nogués
TITLE: Interface exchange-coupling in bimagnetic core|shell nanoparticles
TYPE OF PRESENTATION: ORAL
CONGRESS: XII International Conference on Intergranular and Interphase Boundaries in Materials
PUBLICATION:
MEETING PLACE: Barcelona, Spain
YEAR: 2007

77- AUTHORS: E. Menéndez, J. Sort, S. Suriñach, M.D. Baró, J. Nogués
TITLE: Microstructure, magnetic and mechanical properties of $\text{Co}/\alpha\text{-Al}_2\text{O}_3$ nanocomposite powders cold-consolidated by high pressure torsion
TYPE OF PRESENTATION: POSTER
CONGRESS: XII International Conference on Intergranular and Interphase Boundaries in Materials
PUBLICATION:
MEETING PLACE: Barcelona, Spain
YEAR: 2007

78- AUTHORS: D. J. Keavney, X. F. Han, M. Grimsditch, J. Meersschat, A. Hoffmann, Y. Ji, J. Sort, J. Nogués, R. Divan, J. E. Pearson, K. Yu. Guslienko, S. D. Bader
TITLE: Magnetization dynamics in patterned structures imaged using time-resolved PEEM
TYPE OF PRESENTATION: ORAL
CONGRESS: 10th Joint MMM/Intermag Conference
PUBLICATION:
MEETING PLACE: Baltimore, United States
YEAR: 2007

79- AUTHORS: M. S. Gabor, T. Jourdan, V. Baltz, A. Bollero, J. Sort, B. Rodmacq, F. Lançon, and B. Dieny
TITLE: Numerical investigation of finite size effects on exchange biased nanostructures
TYPE OF PRESENTATION: ORAL
CONGRESS: 10th Joint MMM/Intermag Conference
PUBLICATION:
MEETING PLACE: Baltimore, United States
YEAR: 2007

80- AUTHORS: E. Menéndez, J. Sort, G. Salazar-Alvarez, S. Suriñach, A.P. Zhilyaev, M.D. Baró, J. Nogués
TITLE: Microstructural and mechanical properties of Co/ α -Al₂O₃ nanocomposite powders cold-consolidated by high pressure torsion
TYPE OF PRESENTATION: ORAL
CONGRESS: ISMANAM 2007
PUBLICATION:
MEETING PLACE: Korfu, Greece
YEAR: 2007

81- AUTHORS: K. S. Buchanan, S. Chung, A. Hoffman, F. Fradin, S. Bader, J. Sort
TITLE: Translational-Mode Dynamics of Exchange-Biased Vortices
TYPE OF PRESENTATION: ORAL
CONFERENCE: 52nd Conference on Magnetism and Magnetic Materials
PUBLICATION:
MEETING PLACE: Tampa, USA
YEAR: 2007

82- AUTHORS: E. Menéndez, J. Sort, M.O. Liedke, J. Fassbender, T. Gemming, A. Weber, L.J. Heyderman, S. Suriñach, A. Concustell, S.C. Deevi, M.D. Baró, J. Nogués
TITLE: Micro/Nanoscale Patterning of Magnetic Structures on FeAl alloys
TYPE OF PRESENTATION: ORAL
CONFERENCE: 52nd Conference on Magnetism and Magnetic Materials
PUBLICATION:
MEETING PLACE: Tampa, USA
YEAR: 2007

83- AUTHORS: E. Jiménez, J. Camarero, N. Mikuszeit, R. Miranda, J. M. García-Martín, J. Sort, J. Nogués, A. Hoffmann, B. Dieny
TITLE: Asymmetry reversal phenomena in exchange biased systems: role of anisotropies and interfacial magnetic frustration
TYPE OF PRESENTATION: ORAL
CONFERENCE: 52nd Conference on Magnetism and Magnetic Materials
PUBLICATION:
MEETING PLACE: Tampa, USA
YEAR: 2007

84- AUTHORS: A. Bollero, B. Dieny, J. Sort, K. S. Buchanan, S. Landis, J. Nogués
TITLE: Exchange bias effects in nano-patterned perpendicularly coupled [Pt/Co]-NiFe bilayers
TYPE OF PRESENTATION: ORAL

CONFERENCE: 52nd Conference on Magnetism and Magnetic Materials
PUBLICATION:
MEETING PLACE: Tampa, USA
YEAR: 2007

85- AUTHORS: M. Tanase, A. K. Petford-Long, K. S. Buchanan, J. Sort
TITLE: Magnetization Reversal in exchange biased nanostructures
TYPE OF PRESENTATION: ORAL
CONFERENCE: 52nd Conference on Magnetism and Magnetic Materials
PUBLICATION:
MEETING PLACE: Tampa, USA
YEAR: 2007

86- AUTHORS: A. Concustell, J. Sort, J. Das, A. Gebbert, J. Eckert, M. D. Baró
TITLE: Influence of the Zr content on the thermal and mechanical properties of $\text{Cu}_{60}\text{Zr}_x\text{Ti}_{40-x}$ ($20 < x < 30$) bulk metallic glasses
TYPE OF PRESENTATION: ORAL
CONFERENCE: Bulk Metallic Glasses-Europe Workshop
PUBLICATION:
MEETING PLACE: Paris, France
YEAR: 2007

87- AUTHORS: J. Fornell, A. Concustell, S. Suriñach, A. Gebert, M. D. Baró, J. Sort
TITLE: Strain hardening behaviour of nanocomposite $\text{Ti}_{60}\text{Cu}_{14}\text{Ni}_{12}\text{Sn}_4\text{Nb}_{10}$ alloys
TYPE OF PRESENTATION: POSTER
CONFERENCE: Strengthening the role of women in Nano
PUBLICATION:
MEETING PLACE: Dresden, Germany
YEAR: 2007

88- AUTHORS: N. Van Steenberge, A. Concustell, J. Sort, J. Das, A. Gebert, S. Suriñach, J. Eckert, M.D. Baró
TITLE: Improvement of plasticity of bulk metallic glasses induced by low temperature annealing
TYPE OF PRESENTATION: ORAL
CONGRESS: ISMANAM 2007
PUBLICATION:
MEETING PLACE: Korfu, Greece
YEAR: 2007

89- AUTHORS: G. Salazar-Alvarez, J. Sort, S. Suriñach, M.D. Baró, J. Nogués
TITLE: Size-dependent exchange bias of core|shell nanoparticles
TYPE OF PRESENTATION: ORAL
CONGRESS: International Congress on Nanoscience and Technology 2007
PUBLICATION:
MEETING PLACE: Stockholm, Sweden
YEAR: 2007

90- AUTHORS: E. Jiménez, J. Camarero, J. M. García-Martín, A. Hoffmann, J. Sort, J. Nogués, B. Dieny, R. Miranda
TITLE: Role of anisotropies on the asymmetric magnetization reversal behavior in exchange-biased systems
TYPE OF PRESENTATION: ORAL
CONGRESS: 17th International Vacuum Congress
PUBLICATION:
MEETING PLACE: Stockholm, Sweden
YEAR: 2007

91- AUTHORS: A. Hoffmann, J. Sort, K. S. Buchanan, K. Y. Guslienko, G. Salazar-Alvarez, E. Menéndez, S.-H. Chung, V. Novosad, M. Grimsditch, J. E. Pearson, S. D. Bader A. Bollero, M. D. Baró, M. Miron, B. Rodmaq, B. Dieny, J. Nogués
TITLE: Exchange Biased Magnetic Vortices
TYPE OF PRESENTATION: ORAL
CONGRESS: 2nd Internal Workshop "Vortex Dynamics and its future" at the Research Center for Spin Dynamics and Spin-Wave Devices
PUBLICATION:
MEETING PLACE: Seoul, Korea
YEAR: 2008

92- AUTHORS: E. Jiménez, J. Camarero, J. Sort, J. Nogués, A. Hoffmann, J. M. García-Martín, B. Dieny, R. Miranda
TITLE: Revisiting the asymmetry reversal phenomena in exchange biased systems: role of anisotropies and interfacial magnetic frustration
TYPE OF PRESENTATION: ORAL
CONGRESS: Joint European Magnetic Symposium JEMS 2008
PUBLICATION:
MEETING PLACE: Dublin, Ireland
YEAR: 2008

93- AUTHORS: M. O. Liedke, T. Strache, W. Moller, E. Menéndez, J. Sort, J. Nogués, T. Gemming, A. Weber, L. J. Heyderman, K.V. Rao, S. C. Deevi, J. Fassbender
TITLE: Ion irradiation induced sub-100nm ferromagnetic patterns
TYPE OF PRESENTATION: ORAL
CONGRESS: 12th European Conference "Physics of Magnetism"
PUBLICATION:
MEETING PLACE: Krakow, Poland
YEAR: 2008

94- AUTHORS: E. Menéndez, A. Martinavicius, M.O. Liedke, G. Abrasonis, J. Fassbender, J. Sommerlatte, K. Nielsch, S. Suriñach, M.D. Baró, J. Nogués, J. Sort
TITLE: Generation of micro/nano-scaled magnetic structures on AISI 304L austenitic stainless steel by ion beam nitriding
TYPE OF PRESENTATION: ORAL
CONGRESS: 16th International Conference on Ion Beam Modification of Materials
PUBLICATION:
MEETING PLACE: Dresden, Germany
YEAR: 2008

95- AUTHORS: E. Menéndez, J. Sort, E. Jiménez, J. Camarero, M. O. Liedke, J. Fassbender, S. Suriñach, M. D. Baró, S.C. Deevi, K. V. Rao, A. Weber, L.J. Heyderman, J. Sommerlatte, K. Nielsch, J. Nogués

TITLE: Direct magnetic patterning on paramagnetic FeAl sheets by ion irradiation through poly(methyl methacrylate) and porous alumina shadow masks

TYPE OF PRESENTATION: ORAL

CONGRESS: Intermag 2008

PUBLICATION:

MEETING PLACE: Madrid, Spain

YEAR: 2008

96- AUTHORS: M. Tanase, A. Petford-Long, R. Divan, L. Ocola, K. S. Buchanan, J. Sort

TITLE: Magnetic reversal in patterned nanostructures with circular exchange-bias

TYPE OF PRESENTATION: ORAL

CONGRESS: Intermag 2008

PUBLICATION:

MEETING PLACE: Madrid, Spain

YEAR: 2008

97- AUTHORS: E. Menéndez, A. Martinavicius, M.O. Liedke, G. Abrasonis, J. Fassbender, J. Sort, S. Suriñach, M.D. Baró, J. Nogués

TITLE: Patterning of magnetic structures on austenitic stainless steel by ion beam nitriding

TYPE OF PRESENTATION: ORAL

CONGRESS: Intermag 2008

PUBLICATION:

MEETING PLACE: Madrid, Spain

YEAR: 2008

98- AUTHORS: E. Jiménez, J. Camarero, J. Sort, J. Nogués, N. Mikuszeit, J. M. García-Martín, A. Hoffmann, B. Dieny, R. Miranda

TITLE: Role of Anisotropies on the Asymmetric Magnetization Reversal behaviour in Exchange-Biased Systems

TYPE OF PRESENTATION: ORAL

CONGRESS: Intermag 2008

PUBLICATION:

MEETING PLACE: Madrid, Spain

YEAR: 2008

99- AUTHORS: J. Fornell, A. Concustell, S. Suriñach, W. Li, J. Caro, N. Cuadrado, M. D. Baró, J. Sort

TITLE: Study of the deformation and fracture mechanisms in $\text{Ti}_{40}\text{Zr}_{25}\text{Ni}_8\text{Cu}_9\text{Be}_{18}$ bulk metallic glass using compression tests and nanoindentation

TYPE OF PRESENTATION: ORAL

CONGRESS: The 6th International Conference on Bulk Metallic Glasses

PUBLICATION:

MEETING PLACE: Xi'an, China

YEAR: 2008

100- AUTHORS: J. Sort, N. Van Steenberge, A. Concustell, S. Suriñach, J. Das, J. Eckert, M. D. Baró

TITLE: Tailoring strain softening of metallic glasses during nanoindentation
TYPE OF PRESENTATION: ORAL
CONGRESS: The 6th International Conference on Bulk Metallic Glasses
PUBLICATION:
MEETING PLACE: Xi'an, China
YEAR: 2008

101- AUTHORS: A.Concuestell, J.Fornell, S.Suriñach, A.Gebert, J.Eckert, M.D.Baró, J.Sort
TITLE: Study of the strain hardening behaviour of nanocomposite Ti₆₀Cu₁₄Ni₁₂Sn₄Nb₁₀ alloys using nanoindentation
TYPE OF PRESENTATION: ORAL
CONGRESS: The 6th International Conference on Bulk Metallic Glasses
PUBLICATION:
MEETING PLACE: Xi'an, China
YEAR: 2008

102- AUTHORS: A. Concustell, J. Sort, J. Fornell, S. Suriñach, A. Gebert, J Eckert, M. D. Baró
TITLE: Hardening mechanisms of a nanostructured eutectic in a Ti-base composite alloy
TYPE OF PRESENTATION: ORAL
CONGRESS: Rapidly Quenched Materials (RQ13) Conference
PUBLICATION:
MEETING PLACE: Dresden, Germany
YEAR: 2008

103- AUTHORS: W.J. Botta, M.F. de Oliveira, L.C. Aliaga, C. Bolfarini, J. Sort, A. Concustell, S. Suriñach, M.D. Baró, C.S. Kiminami
TITLE: Topological Instability and Glass Forming Ability in the Cu-Zr-Ti System
TYPE OF PRESENTATION: ORAL
CONGRESS: Rapidly Quenched Materials (RQ13) Conference
PUBLICATION:
MEETING PLACE: Dresden, Germany
YEAR: 2008

104- AUTHORS: J. Fornell, S. Surinyach, M. D. Baró, J. Sort
TITLE: Correlation between the thermal and elastic properties of rare-earth bulk metallic glasses
TYPE OF PRESENTATION: POSTER
CONGRESS: Euromat 2009
PUBLICATION:
MEETING PLACE: Glasgow, United Kingdom
YEAR: 2009

105- AUTHORS: F.S. Santos, J. Sort, J. Fornell, M.D. Baró, S. Suriñach, C. Bolfarini, W.J. Botta, C. S. Kiminami
TITLE: Comparison of mechanical behaviour under nanoindentation of a new Ni-based glassy alloy produced by melt-spinning and copper mould casting
TYPE OF PRESENTATION: ORAL
CONGRESS: Euromat 2009
PUBLICATION:

MEETING PLACE: Glasgow, United Kingdom
YEAR: 2009

106- AUTHORS: J. Fornell, A. Concustell, S. Suriñach, W. H. Li, N. Cuadrado, A. Gebert, M. D. Baró, J. Sort
TITLE: Onset of plasticity and mechanical softening of Ti-based bulk metallic glass
TYPE OF PRESENTATION: POSTER
CONGRESS: Euromat 2009
PUBLICATION:
MEETING PLACE: Glasgow, United Kingdom
YEAR: 2009

107- AUTHORS: M. M. Medeiros, B. B. Medeiros, J. Sort, S. Suriñach, M. D. Baró, C. S. Kiminami, W. J. Botta, C. Bolfarini
TITLE: Nanoindentation studies on beryllium-free titanium-based metallic glasses
TYPE OF PRESENTATION: POSTER
CONGRESS: ISMANAM 2009
PUBLICATION:
MEETING PLACE: Beijing, China
YEAR: 2009

108- AUTHORS: F.S. Santos, J. Sort, J. Fornell, M.D. Baró, S. Suriñach, C. Bolfarini, W.J. Botta, C.S. Kiminami
TITLE: Mechanical behaviour under nanoindentation of new Ni-based amorphous alloys produced by rapid solidification
TYPE OF PRESENTATION: POSTER
CONGRESS: Nanomat 2009
PUBLICATION:
MEETING PLACE: Mexico City, Mexico
YEAR: 2009

109- AUTHORS: E. Pellicer, A. Varea, S. Pané, B. J. Nelson, M. D. Baró, J. Nogués, J. Sort
TITLE: Tailoring the mechanical and magnetic behavior of electrodeposited nanocrystalline CuNi thin films
TYPE OF PRESENTATION: ORAL
CONGRESS: ICAM 2009
PUBLICATION:
MEETING PLACE: Río de Janeiro, Brasil
YEAR: 2009

110- AUTHORS: M. Estrader, A. López-Ortega, G. Salazar-Alvarez, D. Tobia, E. Winkler, S. Estradé, I. Golosovsky, J. Sort, J. Arbiol, F. Peiró, S. Suriñach, R.D. Zysler, M.D. Baró, J. Nogués
TITLE: Exchange bias in inverted Antiferromagnetic-core|Ferrimagnetic-shell nanoparticles
TYPE OF PRESENTATION: POSTER
CONGRESS: TNT 2009
PUBLICATION:
MEETING PLACE: Barcelona, Spain
YEAR: 2009

111- AUTHORS: A. López-Ortega, M. Estrader, G. Salazar-Alvarez, S. Estradé, J. Sort, J. Arbiol, F. Peiró, S. Suriñach, M.D. Baró, J. Nogués
TITLE: Hetero-Onion-like, multilayered, core-Fe₃O₄|shell1-MnFe₂O₄|shell2-γ-Mn₂O₃ nanoparticles
TYPE OF PRESENTATION: POSTER
CONGRESS: TNT 2009
PUBLICATION:
MEETING PLACE: Barcelona, Spain
YEAR: 2009

112- AUTHORS: E. Jiménez, J. Camarero, J. Sort, J. Nogués, A. Hoffmann, J. M. García-Martín, B. Dieny, R. Miranda
TITLE: Non-symmetric magnetic behavior in exchange biased systems induced by non-collinear coupling
TYPE OF PRESENTATION: POSTER
CONGRESS: International Conference on Magnetism
PUBLICATION:
MEETING PLACE: Karlsruhe, Germany
YEAR: 2009

113- AUTHORS: E. Jiménez, J. Camarero, J. Sort, J. Nogués, N. Mikuszeit, A. Hoffmann, J. M. García-Martín, B. Dieny, R. Miranda
TITLE: Frustration induced anisotropies in exchange bias systems
TYPE OF PRESENTATION: POSTER
CONGRESS: International Conference on Magnetism
PUBLICATION:
MEETING PLACE: Karlsruhe, Germany
YEAR: 2009

114- AUTHORS: M. Estrader, A. López Ortega, G. Salazar Alvarez, J. Sort, S. Suriñach, M.D. Baró, J. Nogués
TITLE: Magnetic properties of bi-magnetic, antiferromagnetic-ferrimagnetic, FeO-core|Fe₃O₄-shell nanoparticles
TYPE OF PRESENTATION: POSTER
CONGRESS: International Conference on Magnetism
PUBLICATION:
MEETING PLACE: Karlsruhe, Germany
YEAR: 2009

115- AUTHORS: E. Jiménez, J. Camarero, P. Perna, N. Mikuszeit, F. J. Teran, J. Sort, J. Nogués, J. M. García-Martín, A. Hoffmann, B. Dieny, R. Miranda
TITLE: Role of anisotropy configuration in exchange-biased systems
TYPE OF PRESENTATION: ORAL
CONGRESS: 55th Annual Conference on Magnetism and Magnetic Materials
PUBLICATION:
MEETING PLACE: Atlanta, USA
YEAR: 2010

116- AUTHORS: J. Sort, A.Varea, L. F. Bonavina, C. Souza, W. J. Botta, C. Bolfarini, C. S. Kiminami, S. Suriñach, M. D. Baró, J. Nogués
TITLE: Out-of-plane magnetic patterning based on nanoindentation-induced crystallization of metallic glasses
TYPE OF PRESENTATION: ORAL
CONGRESS: 55th Annual Conference on Magnetism and Magnetic Materials
PUBLICATION:
MEETING PLACE: Atlanta, USA
YEAR: 2010

117- AUTHORS: E. Jimenez, J. Camarero, P. Perna, F. Teran, N. Mikuszeit, J. Sort, J. Nogues, B. Dieny, A. Hoffman, J. M. Garcia-Martín, R.Miranda
TITLE: Towards tailoring magnetic properties in exchange-biased system
TYPE OF PRESENTATION: ORAL
CONGRESS: Joint European Magnetic Symposium JEMS 2010
PUBLICATION:
MEETING PLACE: Krakow, Polonia
YEAR: 2010

118- AUTHORS: E. Pellicer, A. Varea, K. M. Sivaraman, S. Pané, B. J. Nelson, S. Suriñach, M. D. Baró, J. Sort
TITLE: From micro to nano: improving the mechanical properties of electroplated Cu-Ni films
TYPE OF PRESENTATION: ORAL
CONGRESS: ISMANAM 2010
PUBLICATION:
MEETING PLACE: Zürich, Suiza
YEAR: 2010

119- AUTHORS: J. Fornell, S. González, E. Rossinyol, S. Suriñach, M.D. Baró, D.V. Louzguine-Luzgin, J.H. Perepezko, J.Sort, A. Inoue
TITLE: Correlation between structural changes and enhanced mechanical properties during thermally-induced devitrification of Fe-Co-B-Si-Nb bulk metallic glass
TYPE OF PRESENTATION: ORAL
CONGRESS: ISMANAM 2010
PUBLICATION:
MEETING PLACE: Zürich, Suiza
YEAR: 2010

120- AUTHORS: S. González, J. Sort, D.V. Louzguine-Luzgin, J.H. Perepezko, M.D. Baró, A. Inoue
TITLE: Tuning the mechanical behavior of Al-based composites by addition of Pd
TYPE OF PRESENTATION: ORAL
CONGRESS: ISMANAM 2010
PUBLICATION:
MEETING PLACE: Zürich, Suiza
YEAR: 2010

121- AUTHORS: M.D. Baró, E. Pellicer, E. Rossinyol, S. Suriñach, J. Sort
TITLE: La creatività delle donne come elemento di innovazione in ricerca e impresa

TYPE OF PRESENTATION: ORAL

CONGRESS: Activites undertaken by the uab team within the wp2 framework of the Diversity FP7 project

PUBLICATION:

MEETING PLACE: Torino, Italia

YEAR: 2010

122- AUTHORS: K. Krycka, J. Borchers, J. Nogués, G. Salazar-Álvarez, J. Sort

TITLE: Unique Separation of Core-Shell Nanoparticle Components using Resonant X-Ray Scattering

TYPE OF PRESENTATION: ORAL

CONGRESS: March Meeting American Physical Society

PUBLICATION:

MEETING PLACE: Oregon, USA

YEAR: 2010

123- AUTHORS: J. Sort, J. Fornell, S. Suriñach, A. Concustell, N. Van Steenberge, M. D. Baró, A. Gebert, J. Eckert, W. H. Li

TITLE: Nanoindentation on metallic glasses

TYPE OF PRESENTATION: ORAL

CONGRESS: International Workshop of Non-Crystalline Solids

PUBLICATION:

MEETING PLACE: Barcelona, Spain

YEAR: 2010

124- AUTHORS: E. Pellicer, A. Varea, K. Sivaraman, S. Pané, B. J. Nelson, M.Estrader, S. Suriñach, M. D. Baró, J. Nogués, J. Sort

TITLE: From micro to nano: improving the properties of electrodeposited Cu-Ni alloys

TYPE OF PRESENTATION: POSTER

CONGRESS: VIº encuentro franco-español de química y física del estado sólido

PUBLICATION:

MEETING PLACE: Tarragona, Spain

YEAR: 2010

125- AUTHORS: J. Sort, J. Fornell, A. Varea, S. Suriñach, E. Rossinyol, M. D. Baró, L. F. Bonavina, W. J. Botta, C. Kiminami, C. Bolfarini, W. H. Li, J. Nogués

TITLE: Nanocrystallization of amorphous metallic alloys induced by nanoindentation: a novel magnetic patterning method

TYPE OF PRESENTATION: ORAL

CONGRESS: Reunión de Nanomecánica y nanoindentación

PUBLICATION:

MEETING PLACE: Barcelona, Spain

YEAR: 2010

126- AUTHORS: M. A. Zeeshan, K. Shou, S. Schürle, E. Pellicer, S. Pané, J. Sort, K. M. Sivaraman, S. Fusco, S. Muntwyler, M. D. Baró, B. J. Nelson

TITLE: Ferromagnetic Nanowires as Potential Drug-Delivery Wireless Nanorobots

TYPE OF PRESENTATION: ORAL

CONGRESS: IEEE NanoMed

PUBLICATION:

MEETING PLACE: Macau, Hong-Kong
YEAR: 2010

127- AUTHORS: A. López-Ortega, M. Estrader, G. Salazar-Alvarez, S. Estradé, J. Sort, F. Peiró, S. Suriñach, M. D. Baró, J. Nogués
TITLE: Heterogeneous bi-magnetic core-Fe₃O₄ |shell-γ-Mn₂O₃ nanoparticles
TYPE OF PRESENTATION: POSTER
CONGRESS: 7th International Conference on Fine Particle Magnetism (ICFPM-2010)
PUBLICATION:
MEETING PLACE: Uppsala, Sweden
YEAR: 2010

128- AUTHORS: M. Estrader, A. López-Ortega, G. Salazar-Alvarez, S. Estradé, J. Sort, J. D. Ardison, W. A. A. Macedo, F. Peiró, S. Suriñach, M. D. Baró, J. Nogués
TITLE: Magnetic properties of inverted Antiferromagnetic-core|Ferrimagnetic-shell, FeO|Fe₃O₄, nanoparticles
TYPE OF PRESENTATION: POSTER
CONGRESS: 7th International Conference on Fine Particle Magnetism (ICFPM-2010)
PUBLICATION:
MEETING PLACE: Uppsala, Sweden
YEAR: 2010

129- AUTHORS: C. Tromas, J.-C. Stinville, E. Menéndez, P. Villechaise, J. Nogués, J. Sort, C. Templier, J. P. Riviere, A. Martinavicius, G. Abrasonis
TITLE: Anisotropy of the elastic and magnetic properties of expanded austenite in AISI 316L stainless steel
TYPE OF PRESENTATION: ORAL
CONGRESS: Twelfth International Conference on Plasma Surface Engineering
PUBLICATION:
MEETING PLACE: Garmisch-Partenkirchen, Alemania
YEAR: 2010

130- AUTHORS: E. Jimenez, J. Camarero, N. Mikuszeit, P. Perna, F. Teran, A. Bollero, J. Sort, J. Nogués, J. M. García-Martín, A. Hoffmann, B. Dieny, R. Miranda
TITLE: Towards tailoring magnetic properties in exchange-biased FM/AFM systems
TYPE OF PRESENTATION: ORAL
CONGRESS: 56th Annual MMM Conference
PUBLICATION:
MEETING PLACE: Scottsdale, USA
YEAR: 2011

131- AUTHORS: A. Bollero, V. Baltz, L. D. Buda-Prejbeanu, P. Perna, J. Sort, J. Nogués, B. Rodmacq, J. Camarero, R. Miranda, B. Dieny
TITLE: Tuning the exchange-bias phenomenon isothermally induced in coupled ferromagnetic [Pt/Co]/NiFe multilayers
TYPE OF PRESENTATION: ORAL
CONGRESS: 56th Annual MMM Conference
PUBLICATION:
MEETING PLACE: Scottsdale, USA
YEAR: 2011

132- AUTHORS: E. Pellicer, A. Varea, K. M. Sivaraman, S. Pané, S. Suriñach, M. D. Baró, J. Nogués, B. J. Nelson, J. Sort
TITLE: Enhanced and adjustable mechanical, magnetic and thermal properties of nanocrystalline Cu-Ni films by fine-tuning the exact alloy composition during electrodeposition
TYPE OF PRESENTATION: ORAL
CONGRESS: Euromat 2011
PUBLICATION:
MEETING PLACE: Montpellier, France
YEAR: 2011

133- AUTHORS: J. Fornell, N. Van Steenberge, A. Varea, E. Rossinyol, E. Pellicer, S. Suriñach, M.D. Baró, J. Sort
TITLE: Enhanced mechanical properties and in-vitro corrosion behavior of amorphous and devitrified $\text{Ti}_{40}\text{Zr}_{10}\text{Cu}_{38}\text{Pd}_{12}$ metallic glass
TYPE OF PRESENTATION: ORAL
CONGRESS: Euromat 2011
PUBLICATION:
MEETING PLACE: Montpellier, France
YEAR: 2011

134- AUTHORS: A. López-Ortega, M. Estrader, G. Salazar-Alvarez, S. Estradé, J. Sort, F. Peiró, S. Suriñach, M.D. Baró, J. Nogués
TITLE: Bi-magnetic core- MnFe_2O_4 |shell- FeMn_2O_4 nanoparticles
TYPE OF PRESENTATION: ORAL
CONGRESS: Euromat 2011
PUBLICATION:
MEETING PLACE: Montpellier, France
YEAR: 2011

135- AUTHORS: M. Estrader, A. López-Ortega, G. Salazar-Alvarez, S. Estradé, J. Sort, F. Peiró, S. Suriñach, M.D. Baró, J. Nogués
TITLE: Large Exchange Bias in Inverted Antiferromagnetic|Ferrimagnetic Core|Shell nanoparticles
TYPE OF PRESENTATION: ORAL
CONGRESS: Euromat 2011
PUBLICATION:
MEETING PLACE: Montpellier, France
YEAR: 2011

136- AUTHORS: K. M. Sivaraman, S. Pané, O. Ergeneman, E. Pellicer, K. Shou, S. Suriñach, M. D. Baró, J. Sort, B. J. Nelson
TITLE: Novel electrodeposited cobalt-matrix nanocomposite coatings containing $\text{Y}(\text{OH})_3/\text{Y}_2\text{O}_3$ phases
TYPE OF PRESENTATION: ORAL
CONGRESS: Euromat 2011
PUBLICATION:
MEETING PLACE: Montpellier, France
YEAR: 2011

137- AUTHORS: O. Ergeneman, K. Sivaraman, P.Eberle, G. Chatzipirpiridis, M. Suter, S. Pane, E. Pellicer, J. Sort, B. J. Nelson
TITLE: Cobalt-Nickel Microcantilevers for Biosensing
TYPE OF PRESENTATION: ORAL
CONGRESS: Euromat 2011
PUBLICATION:
MEETING PLACE: Montpellier, France
YEAR: 2011

138- AUTHORS: C. Schütz, Z. Bacsik, J. Sort, L. Bergström, G. Salazar-Alvarez
TITLE: Multifunctional materials based on nanocellulose-nanoparticle hybrids
TYPE OF PRESENTATION: ORAL
CONGRESS: Euromat 2011
PUBLICATION:
MEETING PLACE: Montpellier, France
YEAR: 2011

139- AUTHORS: A. Z. Muhammad, K. Shou, S. Pané, E. Pellicer, K. M. Sivaraman, M. D. Baró, J. Sort, B. J. Nelson
TITLE: Fabrication of CNT-based Magnetic Nanocapsules for Minimally Invasive Medicine
TYPE OF PRESENTATION: ORAL
CONGRESS: Euromat 2011
PUBLICATION:
MEETING PLACE: Montpellier, France
YEAR: 2011

140- AUTHORS: I. Golosovsky, G. Salazar-Alvarez, A. López-Ortega, M. González, J. Sort, M. Estrader, S. Suriñach, M. Baró, J. Nogués
TITLE: Neutron diffraction study of the "inverted" bi-magnetic core/shell nanosystems
TYPE OF PRESENTATION: ORAL
CONGRESS: 5th EUROPEAN CONFERENCE ON NEUTRON SCATTERING
PUBLICATION:
MEETING PLACE: Prague (Czech Republic)
YEAR: 2011

141- AUTHORS: A. López-Ortega, E. Pellicer, M. Cabo, M. Estrader, J. Sort, L. Yedra, S. Estradé, S. Suriñach, F. Peiró, M. D. Baró, J. Nogués
TITLE: Ferrimagnetic $\text{Fe}_x\text{Co}_{(2-x)}\text{O}_4$ nanostructures embedded in highly ordered antiferromagnetic Co_3O_4 mesoporous templates
TYPE OF PRESENTATION: ORAL
CONGRESS: Recent Trends in Nanomagnetism, Spintronics and their Applications
PUBLICATION:
MEETING PLACE: Ordizia, Spain
YEAR: 2011

142- AUTHORS: C. Schütz, Z. Bacsik, J. Sort, L. Bergström, G. Salazar-Alvarez
TITLE: Synthesis and properties of nanocellulose–inorganic nanoparticle hybrids
TYPE OF PRESENTATION: ORAL
CONGRESS: Soft and Hard Materials: a symposium on surface and materials chemistry

PUBLICATION:
MEETING PLACE: Lund (Sweden)
YEAR: 2011

143- AUTHORS: M. D. Baró, E. Pellicer, S. Suriñach, S. Pané, K. M. Sivaraman, O. Ergeneman, B. J. Nelson, J. Sort
TITLE: Enhanced mechanical behaviour in nanostructured electrodeposited alloy and nanocomposite thin films
TYPE OF PRESENTATION: ORAL
CONGRESS: The 14th International Conference on Rapidly Quenched and Metastable Materials
PUBLICATION:
MEETING PLACE: Salvador de Bahia (Brazil)
YEAR: 2011

144- AUTHORS: E. Jiménez, J. Camarero, P. Perna, N. Mikuszeit, J. Sort, J. Nogués, J. M. García-Martín, A. Hoffmann, B. Dieny, R. Miranda
TITLE: Towards tailoring magnetic properties in exchange biased systems
TYPE OF PRESENTATION: ORAL
CONGRESS: International Conference on Atomically Controlled Surfaces, Interfaces and Nanostructures (ACSIN-11)
PUBLICATION:
MEETING PLACE: St. Petersburg, Russia
YEAR: 2011

145- AUTHORS: L. C. R. Aliaga, J. Fornell, J. Sort, S. Suriñach, M. D. Baró, C. S. Kiminami, C. Bolfarini, W. J. Botta
TITLE: Comparative study of nanoindentation on melt-spun ribbon and bulk metallic glass of Ni₆₀Nb₃₇B₃ alloy
TYPE OF PRESENTATION: POSTER
CONGRESS: The 14th International Conference on Rapidly Quenched and Metastable Materials
PUBLICATION:
MEETING PLACE: Salvador de Bahia (Brazil)
YEAR: 2011

146- AUTHORS: J. Fornell, N. Van Steenberge, A. Varea, E. Rossinyol, E. Pellicer, S. Suriñach, M.D. Baró, J. Sort
TITLE: Enhanced mechanical properties and in-vitro corrosion behavior of amorphous and devitrified Ti₆₀Zr₁₀Cu₃₈Pd₁₂ metallic glass
TYPE OF PRESENTATION: ORAL
CONGRESS: ISMANAM 2011
PUBLICATION:
MEETING PLACE: Gijón (Spain)
YEAR: 2011

147- AUTHORS: J. Fornell, N. Van Steenberge, S. Suriñach, M.D. Baró, J. Sort
TITLE: Effect of Si addition on the microstructure and mechanical properties of low cost Ti-based nanocomposite alloys
TYPE OF PRESENTATION: POSTER

CONGRESS: ISMANAM 2011
PUBLICATION:
MEETING PLACE: Gijón (Spain)
YEAR: 2011

148- AUTHORS: A. López-Ortega, E. Pellicer, M. Cabo, M. Estrader, J. Sort, Ll.Yedra, S. Estradé, S. Suriñach, F. Peiró, M. D. Baró, J. Nogués
TITLE: Ferrimagnetic $\text{Fe}_x\text{Co}_{(2-x)}\text{O}_4$ nanostructures embedded in highly ordered antiferromagnetic Co_3O_4 mesoporous templates
TYPE OF PRESENTATION: ORAL
CONGRESS: Villa Conference on Interactions Among Nanostructures 2011 (VCIAN 2011)
PUBLICATION:
MEETING PLACE: Las Vegas, USA
YEAR: 2011

149- AUTHORS: A. Varea, E. Pellicer, K.M. Sivaraman, S. Pané, B.J. Nelson, Suriñach, M.D. Baró, J. Nogués, J. Sort
TITLE: High-performance electrodeposited nanocrystalline Cu-Ni thin films
TYPE OF PRESENTATION: POSTER
CONGRESS: BCNano'11
PUBLICATION:
MEETING PLACE: Barcelona, Spain
YEAR: 2011

150- AUTHORS: E. García-Lecina, I. García-Urrutia, J. A. Díez, E. Pellicer, J. Sort
TITLE: Electrodeposición y caracterización de recubrimientos nanocomposite de Ni/TiO_2
TYPE OF PRESENTATION: ORAL
CONGRESS: XXXIII Reunión del Grupo de Electroquímica de la Real Sociedad Española de Química
PUBLICATION:
MEETING PLACE: Miraflores de la Sierra, Madrid (Spain)
YEAR: 2012

151- AUTHORS: M. Estrader, A. López-Ortega, G. Salazar-Alvarez, S. Estradé, I. Golosovsky, J. Sort, F. Peiró, S. Suriñach, M.D. Baró, J. Nogués
TITLE: Heterostructured Bi-magnetic soft-hard core-shell nanoparticles
TYPE OF PRESENTATION: ORAL
CONGRESS: MRS Spring Meeting
PUBLICATION:
MEETING PLACE: San Francisco, USA
YEAR: 2012

152- AUTHORS: A. López-Ortega, M. Estrader, G. Salazar-Alvarez, S. Estradé, J. Sort, F. Peiró, S. Suriñach, M.D. Baró, J. Nogués
TITLE: Bi-magnetic soft|hard core- MnFe_2O_4 |shell- FeMn_2O_4 nanoparticles
TYPE OF PRESENTATION: ORAL
CONGRESS: SUDOE Workshop on Nanomagnetism and Spintronics
PUBLICATION:
MEETING PLACE: San Sebastian (Spain)
YEAR: 2012

153- AUTHORS: A. M. Zeeshan, S. K. Youn, S. Pané, E. Pellicer, S. Fusco, S. Schuerle, M. D. Baró, J. Sort, H. G. Park, B. J. Nelson
TITLE: Ferromagnetic Nanowires Coated with Graphitic Surfaces as Potential Drug Delivery Nanoplatfoms
TYPE OF PRESENTATION: POSTER
CONGRESS: MRS Spring Meeting
PUBLICATION:
MEETING PLACE: San Francisco, USA
YEAR: 2012

154- AUTHORS: S. Pané, E. Pellicer, K. M. Sivaraman, A. M. Zeeshan, S. Schuerle, M. D. Baró, J. Nogués, J. Sort, B. J. Nelson
TITLE: Tunable Magnetic Properties of Electrochemically Deposited CoNiReP Alloys: From Nanostructured Thin Films to Templated Nanoarchitectures
TYPE OF PRESENTATION: POSTER
CONGRESS: MRS Spring Meeting
PUBLICATION:
MEETING PLACE: San Francisco, USA
YEAR: 2012

155- AUTHORS: S. Schürle, S. Pané, E. Pellicer, J. Sort, M. D. Baró, B. J. Nelson
TITLE: Magnetic Manipulation of Liposomal Microstructures in Plant-Based Blood Vessel Phantoms
TYPE OF PRESENTATION: ORAL
CONGRESS: IEEE-NEMS 2012
PUBLICATION:
MEETING PLACE: Kyoto (Japan)
YEAR: 2012

156- AUTHORS: G. Salazar-Alvarez, J. Sort, C. Schütz, D. Gebauer, Z. Bacsik, L. Berglund, L. Bergström
TITLE: Properties and Structuring of Hybrids Based on Nanocellulose and Functional Nanoparticles
TYPE OF PRESENTATION: ORAL
CONGRESS: Bio-inspired materials
PUBLICATION:
MEETING PLACE: Postdam (Germany)
YEAR: 2012

157- AUTHORS: A. M. Zeeshan, S. Pané, E. Pellicer, S. Schürle, J. Sort, M. D. Baró, B. J. Nelson
TITLE: Carbonaceous Magnetic Nanocapsules for Drug Delivery
TYPE OF PRESENTATION: ORAL
CONGRESS: IEEE-NEMS2012
PUBLICATION:
MEETING PLACE: Kyoto (Japan)
YEAR: 2012

158- AUTHORS: E. García-Lecina, I. García-Urrutia, J.A. Díez, E. Pellicer, J. Sort
TITLE: Tribological and corrosion properties of Ni/TiO₂ nanocomposite coatings
TYPE OF PRESENTATION: ORAL
CONGRESS: EuroCorr 2012
PUBLICATION:
MEETING PLACE: Istambul (Turkey)
YEAR: 2012

159- AUTHORS: J. Sort, E. Pellicer, S. González, J. Fornell, P. Solsona, A. Blanquer, L. Barrios, E. Ibáñez, C. Nogués, S. Suriñach, M. D. Baró
TITLE: Effects of Pd addition on the biodegradability, mechanical behavior and cytocompatibility of Mg₇₂Zn₂₃Ca₅ metallic glass
TYPE OF PRESENTATION: ORAL
CONGRESS: ISMANAM 2012
PUBLICATION:
MEETING PLACE: Moscow (Russia)
YEAR: 2012

160- AUTHORS: J. Sort, J. Fornell, A. Concustell, A.L. Greer, S. Suriñach, M. D. Baró
TITLE: Effects of shot peening on the surface mechanical properties of Cu_{47.5}Zr_{47.5}Al₅ metallic glass
TYPE OF PRESENTATION: POSTER
CONGRESS: ISMANAM 2012
PUBLICATION:
MEETING PLACE: Moscow (Russia)
YEAR: 2012

161- AUTHORS: A. P. Hynowska, J. Fornell, E. Pellicer, S. González, N. Van Steenberge, S. Suriñach, M. D. Baró, J. Eckert, J. Sort
TITLE: Mechanical behavior and corrosion resistance of nanostructured Ti_{67.79}Fe_{28.36}Sn_{3.85} and Ti₅₃Nb₃₅Zr₇Ta₅ alloys for biomedical applications
TYPE OF PRESENTATION: ORAL
CONGRESS: TMS 2012
PUBLICATION:
MEETING PLACE: Orlando, USA
YEAR: 2012

162- AUTHORS: A. P. Hynowska, J. Fornell, E. Pellicer, S. González, N. Van Steenberge, S. Suriñach, M. D. Baró, J. Sort
TITLE: Comparative study of the microstructure and elastic/mechanical properties of Ti-Zr-Cu-Pd-(Nb) and Ti-Zr-Fe-(Hf) alloys
TYPE OF PRESENTATION: ORAL
CONGRESS: Summer School BioTiNet
PUBLICATION:
MEETING PLACE: Caldes d'Estrach (Spain)
YEAR: 2012

163- AUTHORS: N. Tsyntsar, H. Cesiulis, E. Pellicer, J. Sort, J.-P. Celis
TITLE: Structural, Magnetic and Mechanical Properties of Electrodeposited Co-W Thin Films
TYPE OF PRESENTATION: ORAL

CONGRESS: NANOSMAT 2012
PUBLICATION:
MEETING PLACE: Prague, Czech Republic
YEAR: 2012

164- AUTHORS: E. García-Lecina, I. García-Urrutia, J. A. Díez, E. Pellicer, J. Sort
TITLE: Effect of ultrasound agitation on the codeposition of inorganic fullerene-like nanoparticles of WS₂ in an electrodeposited nickel matrix
TYPE OF PRESENTATION: ORAL
CONGRESS: Interfinish 2012
PUBLICATION:
MEETING PLACE: Milan, Italy
YEAR: 2012

165- AUTHORS: S. Pané, E. Pellicer, K. M. Sivaraman, M. A. Zeeshan, B. Özkale, G. Chatzipirpiridis, O. Ergeneman, S. Fusco, S. Schürle, S. Suriñach, M. D. Baró, J. Sort, B. J. Nelson
TITLE: Pulse Electrodeposition: a promising methodology for building blocks of magnetic biomedical micro and nanorobotic devices
TYPE OF PRESENTATION: ORAL
CONGRESS: Interfinish 2012
PUBLICATION:
MEETING PLACE: Milan, Italy
YEAR: 2012

166- AUTHORS: Ll. Yedra, A. Eljarrat, R. Arenal, M. Cabo, A. López-Ortega, M. Estrader, E. Pellicer, J. Sort, M.D. Baró, S. Estradé, F. Peiró
TITLE: Accessing a new dimension of nanomaterials: EEL spectroscopic tomography
TYPE OF PRESENTATION: POSTER
CONGRESS: JEELS 2012 (Société Française des Microscopies)
PUBLICATION:
MEETING PLACE: Aix les Bains, France
YEAR: 2012

167- AUTHORS: J. Fornell, N. Oliveira, E. Pellicer, N. Van Steenberge, M.D. Baró, C. Bolfarini, J. Sort
TITLE: Anodic nanotube formation on the surface of Ti-Nb-(Sn) alloys
TYPE OF PRESENTATION: POSTER
CONGRESS: XXVIII Trobades Científiques de la Mediterrània
PUBLICATION:
MEETING PLACE: Maó, Spain
YEAR: 2012

168- AUTHORS: Ll. Yedra, A. Eljarrat, R. Arenal, E. Pellicer, M. Cabo, A. López-Ortega, M. Estrader, J. Sort, M. D. Baró, S. Estradé, Francesca Peiró
TITLE: EEL spectroscopic tomography: a new dimension to nanomaterials analysis
TYPE OF PRESENTATION: ORAL
CONGRESS: 9th Spanish Conference on Electron Devices
PUBLICATION:
MEETING PLACE: Valladolid, Spain

YEAR: 2013

169- AUTHORS: C. Schütz, S. Kochilas, Z. Bacsik, J. Sort, D. Gebauer, M. Salajkova, L. Berglund, L. Bergström, G. Salazar-Alvarez

TITLE: Biohybrids composed of amorphous calcium carbonate and nanocellulose crystals with different surface groups

TYPE OF PRESENTATION: ORAL

CONGRESS: Third International Conference on Multifunctional, Hybrid and Nanomaterials

PUBLICATION:

MEETING PLACE: Sorrento, Italy

YEAR: 2013

170- AUTHORS: E. Tolu, S. Garroni, E. Masolo, E. Pellicer, J. Sort, M.D. Baró

TITLE: Mesoporous materials for energy storage and production

TYPE OF PRESENTATION: POSTER

CONGRESS: Third International Conference on Multifunctional, Hybrid and Nanomaterials

PUBLICATION:

MEETING PLACE: Sorrento, Italy

YEAR: 2013

171- AUTHORS: S. Abdi, S. Oswald, A. Hynowska, M. Calin, L. Schultz, J. Eckert, M. D. Baró, J. Sort, A. Gebert

TITLE: Fabrication, mechanical properties and corrosion behavior of Ti₇₅Zr₁₀Si₁₅-based alloys for implant applications

TYPE OF PRESENTATION: ORAL

CONGRESS: TMS 2013

PUBLICATION:

MEETING PLACE: San Antonio, USA

YEAR: 2013

172- AUTHORS: I. Golvano, E. Rossinyol, A. Varea, M. Roldán, M.D. Baró, J. Sort, E. Pellicer

TITLE: Characterization of electrodeposited Cu-Ni nanopillars by CSLM imaging

TYPE OF PRESENTATION: POSTER

CONGRESS: 13th International ELMI meeting – 2013

PUBLICATION:

MEETING PLACE: Arcachon, France

YEAR: 2013

173- AUTHORS: A. Somayeh, S. Oswald, A. Hynowska, M. Calin, L. Schultz, J. Eckert, M.D. Baró, J. Sort, A. Gebert

TITLE: Investigation of new Ti-based metallic glasses with improved mechanical properties and corrosion resistance for implant applications

TYPE OF PRESENTATION: ORAL

CONGRESS: Biomat 2013

PUBLICATION:

MEETING PLACE: Weimar, Germany

YEAR: 2013

174- AUTHORS: M. Lorenzetti, E. Pellicer, J. Sort, M. D. Baró, S. Novak, S. Kobe

TITLE: Anatase Nanostructured Coatings: Expectations on Biocompatibility and Surface Self-disinfection of Ti-based Implants

TYPE OF PRESENTATION: POSTER

CONGRESS: 25th European Conference on Biomaterials

PUBLICATION:

MEETING PLACE: Madrid, Spain

YEAR: 2013

175- AUTHORS: A. Blanquer, A. Hynowska, Ll. Barrios, E. Pellicer, E. Ibáñez, M. D. Baró, J. Sort, C. Nogués

TITLE: Biocompatibility study of $\text{Ti}_{40}\text{Cu}_{38}\text{Zr}_{10}\text{Pd}_{12}$ bulk metallic glass

TYPE OF PRESENTATION: POSTER

CONGRESS: 25th European Conference on Biomaterials

PUBLICATION:

MEETING PLACE: Madrid, Spain

YEAR: 2013

176- AUTHORS: M. Lorenzetti, E. Pellicer, J. Sort, M. D. Baró, S. Novak, S. Kobe

TITLE: Corrosion behavior of anatase polycrystalline coatings on Ti-based body implants

TYPE OF PRESENTATION: POSTER

CONGRESS: Fourth Regional Symposium on Electrochemistry of South-East Europe (RSE-SEE4)

PUBLICATION:

MEETING PLACE: Ljubljana, Slovenia

YEAR: 2013

177- AUTHORS: J. Fornell, N.T.C. Oliveira, E. Pellicer, N. Van Steenberge, M. D. Baró, C. Bolfarini, J. Sort

TITLE: Anodic formation of self-organized $\text{Ti}(\text{Nb},\text{Sn})$ oxide nanotube arrays with tuneable aspect ratio and size distribution

TYPE OF PRESENTATION: ORAL

CONGRESS: ISMANAM 2013

PUBLICATION:

MEETING PLACE: Torino (Italy)

YEAR: 2013

178- AUTHORS: M. Guerrero, S. Pané, M. D. Baró, M. Roldan, J. Sort, E. Pellicer

TITLE: New hierarchical porous Cu-doped BiOCl films: electrochemical synthesis, characterization and physical properties

TYPE OF PRESENTATION: ORAL

CONGRESS: ISMANAM 2013

PUBLICATION:

MEETING PLACE: Torino (Italy)

YEAR: 2013

179- AUTHORS: J. Fornell, E. Pellicer, E. García-Lecina, S. Suriñach, M. D. Baró, J. Sort

TITLE: Structural and mechanical modifications induced on $\text{Cu}_{47.5}\text{Zr}_{47.5}\text{Al}_5$ metallic glass by surface laser treatments

TYPE OF PRESENTATION: POSTER

CONGRESS: ISMANAM 2013

PUBLICATION:
MEETING PLACE: Torino (Italy)
YEAR: 2013

180- AUTHORS: E. Pellicer, K. M. Sivaraman, M. D. Baró, S. Suriñach, B. J. Nelson, J. Sort, S. Pané
TITLE: Cost-effective composite electroplating from particle-free aqueous electrolytes
TYPE OF PRESENTATION: ORAL
CONGRESS: ICCE-NANO 2013
PUBLICATION:
MEETING PLACE: Tenerife (Spain)
YEAR: 2013

181- AUTHORS: M. Guerrero, M. A. Zeeshan, S. Pané, E. Pellicer, A. M. Lindo, K. M. Sivaraman, M. D. Baró, B. J. Nelson, J. Sort
TITLE: Assessment of the magnetic properties of metallic nanowires synthesized by template-assisted electrodeposition on silicon
TYPE OF PRESENTATION: ORAL
CONGRESS: ICCE-NANO 2013
PUBLICATION:
MEETING PLACE: Tenerife (Spain)
YEAR: 2013

182- AUTHORS: J. Sort, A. Varea, K. M. Sivaraman, M. Guerrero, I. García-Urrutia, J. A. Díez, M. D. Baró, S. Suriñach, J. Nogués, E. García-Lecina, B. J. Nelson, E. Pellicer
TITLE: Advanced Ni-based electrodeposited nanocrystalline and nanocomposite coatings with enhanced mechanical and magnetic performance
TYPE OF PRESENTATION: ORAL
CONGRESS: ICCE-NANO 2013
PUBLICATION:
MEETING PLACE: Tenerife (Spain)
YEAR: 2013

183- AUTHORS: E. García-Lecina, I. García-Urrutia, J. A. Díez, J. Fornell, E. Pellicer, J. Sort
TITLE: Mechanical, tribological and corrosion performance of electrodeposited Ni/IF-WS₂ nanocomposite coatings
TYPE OF PRESENTATION: ORAL
CONGRESS: Eurocorr 2013
PUBLICATION:
MEETING PLACE: Estoril (Portugal)
YEAR: 2013

184- AUTHORS: A. Varea, S. Pané, M. A. Zeeshan, B. Özkale, B. J. Nelson, S. Suriñach, M. D. Baró, J. Nogués, J. Sort, E. Pellicer
TITLE: Template Electrodeposition of Ferromagnetic Cu-Ni Nanopillar Arrays with Large Composition Gradient
TYPE OF PRESENTATION: ORAL
CONGRESS: MRS Fall Meeting & Exhibit
PUBLICATION:
MEETING PLACE: Boston (USA)

YEAR: 2013

185- AUTHORS: J. Fornell, E. Pellicer, N. C. T. Olivera, N. Van Steenberge, M. D. Baró, C. Bolfarini, [J. Sort](#)

TITLE: Microstructure and mechanical behaviour of self-ordered Ti(Nb,Sn) oxide nanotube arrays

TYPE OF PRESENTATION: POSTER

CONGRESS: MRS Fall Meeting & Exhibit

PUBLICATION:

MEETING PLACE: Boston (USA)

YEAR: 2013

186- AUTHORS: A. Hynowska, E. Pellicer, J. Fornell, S. Suriñach, M. D. Baró, N. Van Steenberge, A. Blanquer E. Ibáñez, Ll. Barrios, C. Nogués, [J. Sort](#)

TITLE: Novel nanostructured Ti-based alloys for biomedical applications

TYPE OF PRESENTATION: Oral

CONGRESS: Thermec'2013

PUBLICATION:

MEETING PLACE: Las Vegas (USA)

YEAR: 2013

186- AUTHORS: D. A. Gilbert, L. Ye, K. Liu, A. Vereá, S. Agramunt-Puig, N. del Valle, C. Navau, A. Sánchez, J. F. Lopez-Barbera, K.S. Buchanan, A. Hoffmann, [J. Sort](#), J. Nogués

TITLE: Tilted vortex and mixed reversal modes in exchange-biased nano-dots and nano-ellipses

TYPE OF PRESENTATION: Poster

CONGRESS: 58th MMM

PUBLICATION:

MEETING PLACE: Denver (USA)

YEAR: 2013

187- AUTHORS: S. González, E. Pellicer, S. Suriñach, M. D. Baró, E. García-Lecina, [J. Sort](#)

TITLE: Effect of thermally-induced surface oxidation on the mechanical properties and corrosion resistance of $Zr_{60}Cu_{25}Al_{10}Fe_5$ bulk metallic glass

TYPE OF PRESENTATION: Oral

CONGRESS: European Oxide Scale Conference (OXI 2014)

PUBLICATION:

MEETING PLACE: London (United Kingdom)

YEAR: 2014

188- AUTHORS: I. Golvano-Escobal, S. Pané, B. Özkale, S. Suriñach, M.D. Baró, E. Pellicer, [J. Sort](#)

TITLE: Electrochemical deposition strategies for the growth of films and micro/nanostructures of Co-In and Co-Ni-W functional materials.

TYPE OF PRESENTATION: Oral

CONGRESS: ISMANAM 2014

PUBLICATION:

MEETING PLACE: Cancun (Mexico)

YEAR: 2014

189- AUTHORS: J. Fornell, E. Menéndez, A. Hynowska, S. Suriñach, J. Montserrat, K. Temst, A. Vantomme, M. D. Baró, E. García-Lecina, E. Pellicer, J. Sort
TITLE: Effect of room- and high- temperature Ar⁺ irradiation on the structure and properties of Zr- and Ti-based bulk metallic glasses
TYPE OF PRESENTATION: Oral
CONGRESS: ISMANAM 2014
PUBLICATION:
MEETING PLACE: Cancun (Mexico)
YEAR: 2014

190- AUTHORS: E. Menéndez, C. Templier, J. F. Lopez-Barbera, K. Temst, A. Vantomme, J. Sort, and J. Nogués
TITLE: Magnetic properties of expanded austenite
TYPE OF PRESENTATION: Oral
CONGRESS: 19th International Conference on Ion Beam Modification of Materials
PUBLICATION:
MEETING PLACE: Leuven (Belgium)
YEAR: 2014

191- AUTHORS: J. Sort, J. Belzunce, A. Morán, J. M. Artime, M. Serrano, L. Sedano
TITLE: Magnetic properties qualification of European RAFM steel ASTURFER
TYPE OF PRESENTATION: Poster
CONGRESS: Magnetic properties qualification of European RAFM steel ASTURFER
PUBLICATION:
MEETING PLACE: San Sebastian (Spain)
YEAR: 2014

192- AUTHORS: I. Golvano-Escobal, S. Pané, B. Özkale, B. J. Nelson, S. Suriñach, M. D. Baró, E. Pellicer, J. Sort
TITLE: Spontaneously formed spatio-temporal patterns in electrodeposited cobalt-indium films: structure, magnetism and mechanical properties
TYPE OF PRESENTATION: Oral
CONGRESS: 2014 Collaborative Conference on Materials Research (CCMR)
PUBLICATION:
MEETING PLACE: Seoul (South Korea)
YEAR: 2014

193- AUTHORS: J. Zhang, E. Pellicer, J. Sort
TITLE: Ferromagnetic electrodeposited porous Cu-Ni films: tunable wettability and improved electrocatalytic performance towards hydrogen evolution
TYPE OF PRESENTATION: Oral
CONGRESS: 2014 Collaborative Conference on Materials Research (CCMR)
PUBLICATION:
MEETING PLACE: Seoul (South Korea)
YEAR: 2014

194- AUTHORS: I. Golvano-Escobal, S. Pané, B. Özkale, S. Suriñach, M.D. Baró, J. Sort, E. Pellicer

TITLE: Magnetic and mechanical behaviour of spatio-temporal patterned cobalt-indium films grown by electrodeposition

TYPE OF PRESENTATION: Oral

CONGRESS: Congreso Nacional de Materiales

PUBLICATION:

MEETING PLACE: Barcelona (Spain)

YEAR: 2014

195- AUTHORS: B. Özkale, E. Pellicer, M.A. Zeeshan, J.F. López-Barberá, J. Nogués, J. Sort, B.J. Nelson, S. Pané

TITLE: Metallopolymer Nanocomposite Fabrication by Bipolar Pulse Electrodeposition

TYPE OF PRESENTATION: Oral

CONGRESS: 40th Micro and Nano Engineering 2014

PUBLICATION:

MEETING PLACE: Lausanne (Switzerland)

YEAR: 2014

196- AUTHORS: J. Sort, J. Belzunce, A. Morán, J.M. Artime, M. Serrano, L. Sedano

TITLE: Magnetic properties quantification of European RAFM steel ASTURFER

TYPE OF PRESENTATION: Poster

CONGRESS: 28th Symposium on Fusion Technology (SOFT 2014)

PUBLICATION:

MEETING PLACE: San Sebastian (Spain)

YEAR: 2015

197- AUTHORS: B. Özkale, N. Shamsudhim, G. Chatzipirpiridis, M. Hoop, X. Chen, F. Gramm, J. Sort, B. J. Nelson, E. Pellicer, S. Pané

TITLE: On-Demand Magnetically Triggered Drug Release with Segmented Nanowires

TYPE OF PRESENTATION: Oral

CONGRESS: 2015 MRS Spring Meeting

PUBLICATION:

MEETING PLACE: San Francisco (United States)

YEAR: 2015

198- AUTHORS: I. Golvano-Escobal, S. Suriñach, M.D. Baró, J. Sort, E. Pellicer

TITLE: Electrodeposition of rhodium-iron nanoparticles: control of size, composition and electrocatalytic properties for hydrogen evolution reaction

TYPE OF PRESENTATION: Oral

CONGRESS: 2015 E-MRS Spring Meeting

PUBLICATION:

MEETING PLACE: Lille (France)

YEAR: 2015

199- AUTHORS: J. Zhang, S. Agramunt, S. Pané, S. Estradé, F. Peiró, N. del Valle, M.D. Baró, C. Navau, A. Sánchez, J. Nogués, E. Pellicer, J. Sort

TITLE: Controlled electrodeposition and magnetic properties of hard ferromagnetic (FM)/spacer/soft FM multisegmented nanowires

TYPE OF PRESENTATION: Oral

CONGRESS: 2015 E-MRS Spring Meeting

PUBLICATION:

MEETING PLACE: Lille (France)
YEAR: 2015

200- AUTHORS: H. Zhang, Y. Feng, D. Nieto, E. García-Lecina, M.D. Baró, E. Pellicer, J. Sort
TITLE: The influence of femtosecond laser irradiation on the surface morphology and properties of Fe-based bulk metallic glass
TYPE OF PRESENTATION: Oral
CONGRESS: 2015 E-MRS Spring Meeting
PUBLICATION:
MEETING PLACE: Lille (France)
YEAR: 2015

201- AUTHORS: J. M. Trigo-Rodríguez, C.E. Moyano-Cambero, J. Sort, E. Pellicer, M. Martínez-Jiménez
TITLE: The mechanical properties of the Chelyabinsk chondrite parent asteroid inferred from nanoindentation
TYPE OF PRESENTATION: Oral
CONGRESS: ScienTec Nano Days
PUBLICATION:
MEETING PLACE: Barcelona
YEAR: 2015

202- AUTHORS: H.Y. Zhang, Y.P. Feng, D. Nieto, E. García-Lecina, M.D. Baró, E. Pellicer, J. Sort
TITLE: The influence of femtosecond laser irradiation on the surface morphology and properties of Fe-based bulk metallic glass
TYPE OF PRESENTATION: Oral
CONGRESS: ISMANAM 2015
PUBLICATION:
MEETING PLACE: Paris (France)
YEAR: 2015

203- AUTHORS: F. Mustaq, M. Guerrero, S. Sakar, A.M. Lindo, M.A. Zeeshan, J. Sort, B.J. Nelson, E. Pellicer, S. Pané
TITLE: 3D template-assisted electrodeposition of hybrid magnetic microrobots for photocatalytic targeted water cleaning
TYPE OF PRESENTATION: Oral
CONGRESS: East Forum
PUBLICATION:
MEETING PLACE: Lund (Sweden)
YEAR: 2015

204- AUTHORS: N. del-Valle, S. Agramunt-Puig, E. Pellicer, J. Zhang, J. Nogués, C. Navau, A. Sanchez, J. Sort
TITLE: Segmented nanowires for multi-level high-density magnetic data storage: modeling and experimental proof-of-concept
TYPE OF PRESENTATION: Oral
CONGRESS: ICM 2015
PUBLICATION:
MEETING PLACE: Barcelona (Spain)

YEAR: 2015

205- AUTHORS: I. Golvano-Escobal, S. Suriñach, M.D. Baró, S. Pané, J. Sort, E. Pellicer,
TITLE: Electrodeposited Rh-Fe films and nanoparticles for electrocatalytic hydrogen production
TYPE OF PRESENTATION: Oral
CONGRESS: ENM Spain
PUBLICATION:
MEETING PLACE: San Sebastian (Spain)
YEAR: 2015

206- AUTHORS: I. Golvano-Escobal, S. Suriñach, M.D. Baró, S. Pané, J. Sort, E. Pellicer
TITLE: Controlled electrodeposition of Rh-Fe nanoparticles for hydrogen evolution reaction applications
TYPE OF PRESENTATION: Oral
CONGRESS: EDNANO-11
PUBLICATION:
MEETING PLACE: Balatönfüred (Hungary)
YEAR: 2015

207- AUTHORS: E. Pellicer, J. Zhang, A. Varea, B. Özkale, S. Suriñach, M.D. Baró, S. Pané, J. Sort
TITLE: Electrodeposited Cu-Ni functional materials: microcolumns, nanopillars and nanofoams
TYPE OF PRESENTATION: Oral
CONGRESS: EDNANO-11
PUBLICATION:
MEETING PLACE: Balatönfüred (Hungary)
YEAR: 2015

208- AUTHORS: M.A. Zeeshan, D. Esqué-de los Ojos, P. Castro-Hartmann, M. Guerrero, J. Nogués, S. Suriñach, M.D. Baró, B.J. Nelson, S. Pané, E. Pellicer, J. Sort
TITLE: Dissimilar trends in the nanomechanical behavior of amorphous and crystalline metallic nanowires
TYPE OF PRESENTATION: Oral (highlighted)
CONGRESS: EUROMAT 2015
PUBLICATION:
MEETING PLACE: Warsaw (Poland)
YEAR: 2015

209- AUTHORS: H.Y. Zhang, Y.P. Feng, Y.Y. Cheng, S. Suriñach, M.D. Baró, E. Pellicer, R. Li, T. Zhang, J. Sort
TITLE: Synthesis of $\text{Fe}_{51}\text{Mn}_x\text{Cr}_4\text{Mo}_{22-x}\text{C}_{15}\text{B}_6\text{Er}_2$ alloys with tunable microstructure and enhanced mechanical properties by injection casting and annealing treatments
TYPE OF PRESENTATION: Oral
CONGRESS: EUROMAT 2015
PUBLICATION:
MEETING PLACE: Warsaw (Poland)
YEAR: 2015

210- AUTHORS: N. Tsyntsar, S. Silkin, M. Guerrero, E. Pellicer, H. Cesiulis, J. Sort
TITLE: Template electrodeposition and magnetic properties of Co-W alloys
TYPE OF PRESENTATION: Poster
CONGRESS: 66th Annual ISE Meeting
PUBLICATION:
MEETING PLACE: Taiwan (China)
YEAR: 2015

211- AUTHORS: G. Mulas, S. Garroni, E. Masolo, S. Enzo, F. Spanu, E. Tolu, M.D. Baró, E. Pellicer, J. Sort
TITLE: Nanosized systems supported on ordered mesoporous carbon as electrocatalysts for Oxygen Reduction Reaction in PEM fuel cells
TYPE OF PRESENTATION: Oral
CONGRESS: E-MRS 2015 Fall Meeting
PUBLICATION:
MEETING PLACE: Strasbourg (Francia)
YEAR: 2015

212- AUTHORS: B. Villarejo, C. Pop, S. Ricart, J. Sort, J. Fargas, P. Roura, X. Obradors, T. Puig
TITLE: Pyrolysis study of thick deposited YBCO precursor layers by inkjet printing
TYPE OF PRESENTATION: Poster
CONGRESS: 12th European Conference on Applied Superconductivity
PUBLICATION:
MEETING PLACE: Lyon (Francia)
YEAR: 2015

213- AUTHORS: J. Sort, J. Belzunce, A. Morán, J.M. Artime, M. Serrano, L. Sedano
TITLE: Magnetic properties quantification of European RAFM steel ASTURFER
TYPE OF PRESENTATION: Poster
CONGRESS: 28th Symposium on Fusion Technology (SOFT 2014)
PUBLICATION:
MEETING PLACE: San Sebastian (Spain)
YEAR: 2015

214- AUTHORS: B. Villarejo, C. Pop, S. Ricart, J. Sort, J. Fargas, P. Roura, X. Obradors, T. Puig
TITLE: Pyrolysis study of thick deposited YBCO precursor layers by inkjet printing
TYPE OF PRESENTATION: Poster
CONGRESS: 12th European Conference on Applied Superconductivity
PUBLICATION:
MEETING PLACE: Lyon (Francia)
YEAR: 2015

215- AUTHORS: J.Fornell, D.Bilican, P.Solsona, S.Suriñach, M.D.Baró, E.Pellicer, J.Sort
TITLE: A novel approach for synthesis and characterization of synthesized Cu-Ni-Al shape memory thin films produced by electrodeposition with potential shape memory properties
TYPE OF PRESENTATION: ORAL

CONGRESS: TMS Annual Meeting & Exhibition 2016 – Bulk metallic glasses XIII session
PUBLICATION:
MEETING PLACE: Nashville, Tennessee
YEAR: 2016

216- AUTHORS: A. Quintana, A. Gómez, M. D. Baró, S. Suriñach, E. Pellicer, J. Sort
TITLE: Piezoresponse and resistive switching in self-templating hierarchically porous single crystal ZnO nanowires
TYPE OF PRESENTATION: ORAL
CONGRESS: ISMANAM 2016
PUBLICATION:
MEETING PLACE: Nara City (Japan)
YEAR: 2016

217- AUTHORS: I. Golvano-Escobal, S. Suriñach, M. D. Baró, S. Pané, J. Sort, E. Pellicer
TITLE: Multifunctional Fe-based electrodeposited nanomaterials
TYPE OF PRESENTATION: ORAL
CONGRESS: ISMANAM 2016
PUBLICATION:
MEETING PLACE: Nara City (Japan)
YEAR: 2016

218- AUTHORS: J. Fornell, Y. P. Feng, A. Blanquer, H. Y. Zhang, P. Solsona, M. D. Baró, S. Suriñach, E. Ibáñez, E. García-Lecina, L. Barrios, E. Pellicer, C. Nogués, J. Sort
TITLE: From bulk to porous Fe-based biocompatible alloys
TYPE OF PRESENTATION: ORAL
CONGRESS: ISMANAM 2016
PUBLICATION:
MEETING PLACE: Nara City (Japan)
YEAR: 2016

219- AUTHORS: P. Solsona, J. Fornell, Y. P. Feng, H. Y. Zhang, M. D. Baró, S. Suriñach, E. Pellicer, J. Sort
TITLE: Novel Biodegradable Fe-Mn-Si-Pd alloys with tunable pore size and porosity degree
TYPE OF PRESENTATION: ORAL
CONGRESS: ISMANAM 2016
PUBLICATION:
MEETING PLACE: Nara City (ISMANAM)
YEAR: 2016

220- AUTHORS: J. Fan, M. Guerrero, S. Suriñach, M. D. Baró, J. Sort, E. Pellicer
TITLE: Synthesis and potential applications of mesoporous Ni-doped SnO₂: powders versus films
TYPE OF PRESENTATION: ORAL
CONGRESS: Euromat Junior
PUBLICATION:
MEETING PLACE: Lausanne (Switzerland)
YEAR: 2016

221- AUTHORS: J. Fan, A. Blanquer, J.Fornell, H. Zhang, P.Solsona, M. D. Baró, S. Suriñach, E. Ibáñez, E.García-Lecina, Ll. Barrios, E.Pellicer, C. Nogués, [J. Sort](#)
TITLE: Novel Fe-Mn-Si-Pd biocompatible alloys: mechanical, magnetic and corrosion performance
TYPE OF PRESENTATION: POSTER
CONGRESS: Euromat Junior
PUBLICATION:
MEETING PLACE: Lausanne (Switzerland)
YEAR: 2016

222- AUTHORS: C.E. Moyano-Camero, J.M. Trigo-Rodríguez, E. Pellicer, J. Llorca, M. Martínez-Jiménez, [J. Sort](#)
TITLE: Uv-Nir Spectra and Nanoindentation of Chelyabinsk to Infer the Mechanical Properties of Hazardous Asteroids
TYPE OF PRESENTATION: ORAL
CONGRESS: 79th Annual Meeting of the Meteoritical Society
PUBLICATION:
MEETING PLACE: Berlin (Germany)
YEAR: 2016

223- AUTHORS: I. Fina, J. Clarkson, C. Frontera, K. Cordero, S. Wizotsky, A. Quintana, F. Sanchez, [J. Sort](#), R. Ramesh, X. Marti, J. Fontcuberta
TITLE: Antiferromagnetic-Ferromagnetic mixed phase system with thermal and electric encrypted magnetic memory performance
TYPE OF PRESENTATION: POSTER
CONGRESS: 2016 Joint IEEE ISAF - ECAPD - PFM
PUBLICATION:
MEETING PLACE: Darmstadt (Germany)
YEAR: 2016

224- AUTHORS: Y. P. Feng, A. Blanquer, J. Fornell, H. Zhang, P. Solsona, M. D. Baró, S. Suriñach, E. Ibáñez, E. García-Lecina, X. Wei, R. Li, L. Barrios, E. Pellicer, C. Nogués, [J. Sort](#)
TITLE: Osteoblast behaviour onto novel biodegradable Fe-10Mn6Si1Pd and Fe-30Mn6Si1Pd alloys
TYPE OF PRESENTATION: POSTER
CONGRESS: APA International Conference on Advanced Polymers, Biomaterials, Bioengineering and Nano Drug Delivery
PUBLICATION:
MEETING PLACE: Flic-en-Flac (Mauritania)
YEAR: 2016

225- AUTHORS: A. Nicolenco, N.Tsyntsar, E. Pellicer, J. Fornell, H. Cesiulis, [J.Sort](#)
TITLE: Magnetic and mechanical properties of electrodeposited Fe-W alloys
TYPE OF PRESENTATION: ORAL
CONGRESS: The 8th International Conference Materials Science and Condensed Matter Physics
PUBLICATION:
MEETING PLACE: Chisinau (Moldova)
YEAR: 2016

226- AUTHORS: S. Zsurzsa, I. Bakonyi, L. Péter, E. Pellicer, J. Sort, E. Pellicer
TITLE: Structural investigation of Ni-Co/Cu multilayered nanowires
TYPE OF PRESENTATION: ORAL
CONGRESS: 2nd e-Minds COST Action Workshop
PUBLICATION:
MEETING PLACE: Athens (Greece)
YEAR: 2016

227- AUTHORS: A. Quintana, J. Zhang, A. Varea, S. Pané, E. Pellicer, J. Sort
TITLE: Highly-tunable magnetic properties in novel Cu_{1-x}Ni_x architectures: from fully dense films to patterned pillars and micro-/nanoporous structures
TYPE OF PRESENTATION: ORAL
CONGRESS: 61st Annual Conference on Magnetism and Magnetic Materials (2016 MMM)
PUBLICATION:
MEETING PLACE: New Orleans (United States of America)
YEAR: 2016

228- AUTHORS: Y.P. Feng, N. Gaztelumendi, J. Fornell, H. Y. Zhang, P. Solsona, M. D. Baró, S. Suriñach, E. Ibáñez, E. García-Lecina, L. Barrios, E. Pellicer, C. Nogués, J. Sort
TITLE: Novel Fe-Mn-Si-Pd dense and porous alloys: insights on mechanical, magnetic and corrosion performance
TYPE OF PRESENTATION: POSTER
CONGRESS: NanoBioMed 2016
PUBLICATION:
MEETING PLACE: Barcelona (Spain)
YEAR: 2016

229- AUTHORS: A. Quintana, A. Varea, M. Guerrero, S. Suriñach, M.D. Baró, J. Sort, E. Pellicer
TITLE: Electrodeposited molybdenum oxide films and patterned submicrometer motifs: structure and mechanical properties
TYPE OF PRESENTATION: Oral
CONGRESS: THERMEC 2016
PUBLICATION:
MEETING PLACE: Graz (Austria)
YEAR: 2016

230- AUTHORS: A. Serrà, S. Grau, C. Gimbert-Suriñach, J. Sort, J. Nogués, E. Vallés
TITLE: Magnetically-actuated mesoporous CoPt nanowires as a means to revolutionize heterogeneous catalysis for both water remediation and hydrogen production
TYPE OF PRESENTATION: ORAL
CONGRESS: IN2UB 10th Anniversary
PUBLICATION:
MEETING PLACE: Barcelona (Spain)
YEAR: 2017

231- AUTHORS: V.Guccini, D.Laurencin, F. Ansari, J. Sort, N. Hedin, L. A. Berglund, G. Salazar-Alvarez
TITLE: Protective transparent coatings composed of cellulose nanofibers cross-linked with borate ions

TYPE OF PRESENTATION: ORAL

CONGRESS: 5th International Conference on Multifunctional, Hybrid and Nanomaterials (HYMA 2017)

PUBLICATION:

MEETING PLACE: Lisbon (Portugal)

YEAR: 2017

232- AUTHORS: H. Zhang, S. Robbennolt, A. Quintana, A. Gordó, E. Menéndez, J. Fornell, E. Pellicer, J. Sort

TITLE: Structural and magnetic properties of ribbons and thin films of $\text{Fe}_x\text{Cu}_{1-x}$ electrochemically treated to create 3D nanoporosity

TYPE OF PRESENTATION: POSTER

CONGRESS: Intermag 2017

PUBLICATION:

MEETING PLACE: Dublin (Ireland)

YEAR: 2017

233- AUTHORS: V. Sireus, A. Quintana, E. Menéndez, S. Suriñach, M. D. Baró, J. Sort

TITLE: Voltage-controlled magnetism in $\text{Fe}_{60}\text{Al}_{40}$ (at. %)/(100) PMN-PT multiferroic heterostructures

TYPE OF PRESENTATION: POSTER

CONGRESS: 3rd Scientific Meeting of BNC-b Students / Bellaterra

PUBLICATION:

MEETING PLACE: Bellaterra (Spain)

YEAR: 2017

234 AUTHORS: A. Serrà, S. Grau, C. Gimbert-Suriñach, J. Sort, J. Nogués, E. Vallés

TITLE: Drastic enhancement of the catalytic activity of both water remediation and hydrogen production using magnetically actuated mesoporous CoPt nanowires

TYPE OF PRESENTATION: POSTER

CONGRESS: 10th World Congress of Chemical Engineering

PUBLICATION:

MEETING PLACE: Barcelona (Spain)

YEAR: 2017

235- AUTHORS: C. Navarro-Senent, J. Fornell, E. Isarain-Chavez, A. Quintana, J. Nogués, E. Pellicer, J. Sort

TITLE: Magnetic properties of nanoporous Co-Pt micropatterns synthesized by electrodeposition process

TYPE OF PRESENTATION: POSTER (1st Prize Poster Award)

CONGRESS: 3rd Scientific Meeting of BNC-b Students / Bellaterra

PUBLICATION:

MEETING PLACE: Bellaterra (Spain)

YEAR: 2017

236- AUTHORS: D. Bilican, S. Kurdi, Y. Zhu, J. Fornell, E. Pellicer, L. Greer, Z. Barber, J. Sort

TITLE: Effects of Post- and In-situ Heat Treatments on Sputtered Copper-Aluminium-Nickel Shape Memory AlloysThin Films

TYPE OF PRESENTATION: POSTER

CONGRESS: 3rd Scientific Meeting of BNC-b Students / Bellaterra

PUBLICATION:
MEETING PLACE: Bellaterra (Spain)
YEAR: 2017

237- AUTHORS: E. Dislaki, F. Celegato, P. Tiberto, J. Sort, E. Pellicer
TITLE: Fabrication and properties of electroplated Fe-Cu continuous films and porous microstructures deposited onto e-beam lithographed patterns
TYPE OF PRESENTATION: ORAL
CONGRESS: Euromat 2017
PUBLICATION:
MEETING PLACE: Thessaloniki (Greece)
YEAR: 2017

238- AUTHORS: P. Solsona, Y. P. Feng, J. Fornell, M. D. Baró, S. Suriñach, E. Pellicer, J. Sort
TITLE: Tuning the magnetic behavior of ultralight Fe-oxide foams by Mn addition
TYPE OF PRESENTATION: POSTER
CONGRESS: Euromat 2017
PUBLICATION:
MEETING PLACE: Thessaloniki (Greece)
YEAR: 2017

239- AUTHORS: J. Fornell, Y. P. Feng, N. Gaztelumendi, H. Y. Zhang, P. Solsona, M. D. Baró, S. Suriñach, E. Ibáñez, L. Barrios, E. Pellicer, C. Nogués, J. Sort
TITLE: Study on the corrosion, mechanical and cell viability behaviour of newly developed porous Fe-Mn-Si-Pd alloys
TYPE OF PRESENTATION: ORAL
CONGRESS: Euromat 2017
PUBLICATION:
MEETING PLACE: Thessaloniki (Greece)
YEAR: 2017

240- AUTHORS: J. Soriano, J. Fornell, M. Guerrero, J. de Dios Sirvent, M. Ferran, E. Ibáñez, L. Barrios, M. D. Baró, S. Suriñach, J. Sort, E. Pellicer, C. Nogués
TITLE: Development of FeMn-Coated Polypropylene Membranes as Micro-Robotic Platforms for Drug Delivery Applications
TYPE OF PRESENTATION: POSTER
CONGRESS: 28th European Conference on Biomaterials
PUBLICATION:
MEETING PLACE: Athens (Greece)
YEAR: 2017

241- AUTHORS: N. Gaztelumendi, Y. P. Feng, J. Fornell, H. Zhang, P. Solsona, M. D. Baró, S. Suriñach, E. Pellicer, J. Sort, E. Ibáñez, L. Barrios, C. Nogués
TITLE: Cytotoxicity of New Biodegradable Bulk and Porous Fe-Mn-Si-Pd Alloys
TYPE OF PRESENTATION: POSTER
CONGRESS: 28th Annual Conference of the European Society for Biomaterials
PUBLICATION:
MEETING PLACE: Athens (Greece)
YEAR: 2017

242- AUTHORS: A. Salicio-Paz, H. Grande, E. Pellicer, J. Sort, E. García-Lecina
TITLE: Corrosion resistance, mechanical and tribological properties of electroless NiP multilayered coatings
TYPE OF PRESENTATION: ORAL
CONGRESS: Joint EUROCORN 2017 & 20th ICC congress
PUBLICATION:
MEETING PLACE: Prague (Czech Republic)
YEAR: 2017

243- AUTHORS: I. Fina, A. Quintana, F. Sánchez, F. Macià, J. Padilla-Pantoja, M. Foerster, L. Aballe, J. Sort, J. Fontcuberta
TITLE: Magnetic memory effect in Antiferromagnetic-Ferromagnetic martensitic alloy
TYPE OF PRESENTATION: ORAL
CONGRESS: XXXVI Reunión Bienal de la Real Sociedad Española de Física
PUBLICATION:
MEETING PLACE: Santiago de Compostela (Spain)
YEAR: 2017

244- AUTHORS: D. Bilican, J. Fornell, J. Sort, E. Pellicer
TITLE: Electrochemical Synthesis of Micron and Submicron-Sized Bismuth Particles with Tunable Morphology onto Various Substrates
TYPE OF PRESENTATION: POSTER
CONGRESS: 13th International Conference on Materials Chemistry (MC13)
PUBLICATION:
MEETING PLACE: Liverpool (United Kingdom)
YEAR: 2017

245- AUTHORS: D. Bilican, E. Menendez, J. Zhang, P. Solsona, J. Fornell, E. Pellicer, J. Sort
TITLE: Synthesis of Bismuth Ferrite by Electrodeposition Followed by Heat Treatment
TYPE OF PRESENTATION: POSTER
CONGRESS: 13th International Conference on Materials Chemistry (MC13)
PUBLICATION:
MEETING PLACE: Liverpool (United Kingdom)
YEAR: 2017

246- AUTHORS: D. Bilican, E. Menéndez, J. Zhang, P. Solsona, J. Fornell, E. Pellicer, J. Sort
TITLE: Synthesis of Porous BiFeO₃ films with Ferromagnetic-like Behaviour by Electrodeposition followed by Heat Treatment
TYPE OF PRESENTATION: POSTER
CONGRESS: Plasmas, Surfaces and Thin Films: Early Career Researchers Meeting (IOP Events)
PUBLICATION:
MEETING PLACE: Leicestershire (United Kingdom)
YEAR: 2017

247- AUTHORS: E. J. Garcia-Suarez, C. Herlev-Gebara, S.G. Khokarale, S. Shunmugavel, M. Guerrero, J. Sort, A. Riisager

TITLE: Methylpropionate synthesis from biomass-derived feedstocks with supported metal oxide catalysts

TYPE OF PRESENTATION: ORAL

CONGRESS: XXXVI Reunión BIENAL de la Real Sociedad Española de QUÍMICA

PUBLICATION:

MEETING PLACE: Sitges (Spain)

YEAR: 2017

248- AUTHORS: F. Tan, M. Y. Tsang, S. Rodríguez-Hermida, K. C. Stylianou, D. Negi, F. Teixidor, C. Viñas, D. Choquesillo-Lazarte, C. Verdugo-Escamilla, M. Guerrero, J. Sort, J. Juanhuix, I. Imaz, D. MasPOCH, J. Giner Planas

TITLE: Carborane bis-pyridylalcohols as linkers for coordination polymers: synthesis, crystal structures and guest-framework dependent mechanical properties

TYPE OF PRESENTATION: POSTER

CONGRESS: XXXVI Reunión BIENAL de la Real Sociedad Española de QUÍMICA

PUBLICATION:

MEETING PLACE: Sitges (Spain)

YEAR: 2017

249- AUTHORS: C. Nogués, A. Aranda-Ramos, Z. Li, L. Pou-Macayo, J. Sort, J. Nogués, B. Sepulveda

TITLE: Magneto-plasmonic nanodomains for photo-thermal treatments

TYPE OF PRESENTATION: ORAL

CONGRESS: Nanobiomed

PUBLICATION:

MEETING PLACE: Alghero (Italy)

YEAR: 2017

250- AUTHORS: H. Zhang, Y.P. Feng, Y. Cheng, M.D. Baró, A. Altube, E. García-Lecina, F. Alcaide, E. Pellicer, T. Zhang, J. Sort

TITLE: Nanoporous Fe-Based Alloy Prepared by Selective Dissolution: An Effective Fenton Catalyst for Water Remediation

TYPE OF PRESENTATION: POSTER

CONGRESS: ISMANAM 2017

PUBLICATION:

MEETING PLACE: Donostia (Spain)

YEAR: 2017

251- AUTHORS: I. Fina, A. Quintana, F. Sánchez, J. Sort, X. Marti, J. Fontcuberta

TITLE: Electrically driven magnetic memory effect in Antiferromagnetic-Ferromagnetic mixed phase system

TYPE OF PRESENTATION: ORAL

CONGRESS: E-MRS 2017

PUBLICATION:

MEETING PLACE: Strassbourg (France)

YEAR: 2017

252- AUTHORS: E. Dislaki, J. Sort, E. Pellicer

TITLE: Synthesis and analysis of electroplated FeCu: from continuous to hierarchically porous films

TYPE OF PRESENTATION: ORAL
CONGRESS: E-MRS 2017
PUBLICATION:
MEETING PLACE: Strassbourg (France)
YEAR: 2017

253- AUTHORS: S. Zsurzsa, I. Bakonyi, L. Péter, J. Sort, E. Pellicer
TITLE: Electron microscopy analysis and magnetic characterization of Ni-Co/Cu multilayered nanowires grown in AAO membranes
TYPE OF PRESENTATION: ORAL
CONGRESS: EDNANO 12
PUBLICATION:
MEETING PLACE: Sofia (Bulgaria)
YEAR: 2017

254- AUTHORS: A. Serrà, S. Grau, C. Gimbert-Suriñach, J. Sort, J. Nogués, E. Vallés
TITLE: Magnetically-actuated mesoporous CoPt nanowires as a means to revolutionize heterogeneous catalysis for both water remediation and hydrogen production
TYPE OF PRESENTATION: POSTER
CONGRESS: RSC Twitter Poster Conference 2017
PUBLICATION:
MEETING PLACE: on-line
YEAR: 2017

255- AUTHORS: S. Thirumalai, E. Pellicer, J. Sort, A. L. Greer
TITLE: Electrodeposition of iron-based nanocomposite coatings
TYPE OF PRESENTATION: ORAL
CONGRESS: EDNANO 12
PUBLICATION:
MEETING PLACE: Sofia (Bulgaria)
YEAR: 2017

256- AUTHORS: S. Danilova, P. Solsona, J.E. Graves, E. Pellicer, J. Sort, A.J. Cobley
TITLE: The preparation of nanocomposite Iron Oxide-Silver particles by ball-milling
TYPE OF PRESENTATION: ORAL
CONGRESS: International Conference on PROCESSING & MANUFACTURING OF ADVANCED MATERIALS (Thermec 2018)
PUBLICATION:
MEETING PLACE: Paris (France)
YEAR: 2018

257- AUTHORS: C. Navarro-Senent, J. Fornell, E. Isarain-Chávez, A. Quintana, J. Nogués, E. Pellicer, J. Sort
TITLE: Electric-field effect on the magnetic properties of nanoporous Co-Pt patterned microstructures
TYPE OF PRESENTATION: ORAL
CONGRESS: International Conference on PROCESSING & MANUFACTURING OF ADVANCED MATERIALS (Thermec 2018)

PUBLICATION:
MEETING PLACE: Paris (France)
YEAR: 2018

258- AUTHORS: S. Danilova, J. E. Graves, E. Pellicer, J. Sort, A. J. Cobley
TITLE: Selective Metalization of Non-Conductive Materials By Macropatterning of Catalytic Particles and the Application of a Gradient Magnetic Field
TYPE OF PRESENTATION: ORAL
CONGRESS: The Electrochemical Society, Advancing solid State and Electrochemical Science and Technology: 233rd ECS Meeting
PUBLICATION:
MEETING PLACE: Seattle (USA)
YEAR: 2018

259- AUTHORS: M. Ferran, J. Fornell, J. Soriano, M. Guerrero, J. de Dios Sirvent, E. Ibáñez, L. Barrios, C. Nogués, J. Sort, E. Pellicer
TITLE: Development of FeMnSi-coated polypropylene membranes as potential micro-robotic platforms for drug delivery applications
TYPE OF PRESENTATION: ORAL
CONGRESS: 2nd World summit on Nanotechnology and Nanomedicine Research
PUBLICATION:
MEETING PLACE: Oxford (United Kingdom)
YEAR: 2018

260- AUTHORS: M. Cialone, E. Dislaki, F. Celegato, M. Coisson, G. Barrera, E. Pellicer, J. Sort, P. Rizzi, P. Tiberto
TITLE: Magnetization reversal in electrodeposited FePd sub-micron structures
TYPE OF PRESENTATION: ORAL
CONGRESS: 9th Joint European Magnetic Symposia (JEMS)
PUBLICATION:
MEETING PLACE: Mainz (Germany)
YEAR: 2018

261- AUTHORS: E. Dislaki, M. Cialone, F. Celegato, P. Tiberto, J. Sort, E. Pellicer
TITLE: Unravelling the magnetic properties of Fe–Cu electrodeposited films and patterned submicron pillars
TYPE OF PRESENTATION: POSTER
CONGRESS: 9th Joint European Magnetic Symposia (JEMS)
PUBLICATION:
MEETING PLACE: Mainz (Germany)
YEAR: 2018

262- AUTHORS: E. Bertero, C. V. Manzano, E. Pellicer, J. Sort, M. Doebeli, S. Mischler, J. Michler, L. Philippe
TITLE: Electrodeposited FeCrNi stainless steel-like films: influence of impurities and microstructure on corrosion resistance
TYPE OF PRESENTATION: ORAL
CONGRESS: EUROCORN 2018
PUBLICATION:
MEETING PLACE: Krakow (Poland)

YEAR: 2018

263- AUTHORS: E. Garcia-Lecina, A. Salicio-Paz, H.-J. Grande, V. Martínez-Nogués, E. Pellicer, J. Sort, R. Offoiach, M. Lekka

TITLE: Corrosion resistance and tribo-corrosion behaviour of electroless NiP multilayered coatings

TYPE OF PRESENTATION: ORAL

CONGRESS: EUROCORR 2018

PUBLICATION:

MEETING PLACE: Krakow (Poland)

YEAR: 2018

264- AUTHORS: C. Navarro-Senent, J. Fornell, E. Isarain-Chávez, A. Quintanaa, J. Nogués, E. Pellicer, J. Sort

TITLE: Magneto-electric properties of nanoporous Co-Pt dots synthesized by micelle-assisted electrodeposition on lithographed substrates

TYPE OF PRESENTATION: POSTER

CONGRESS: 32nd International Conference on Surface Modification Technologies (SMT32)

PUBLICATION:

MEETING PLACE: San Sebastian (Spain)

YEAR: 2018

265- AUTHORS: A. Salicio-Paz, H. Grande, E. Pellicer, J. Sort, M. Lekka, R. Offoiach, E. García-Lecina

TITLE: Effect of annealing on the mechanical properties and corrosion resistance of multilayered electroless coatings

TYPE OF PRESENTATION: POSTER

CONGRESS: 32nd International Conference on Surface Modification Technologies (SMT32)

PUBLICATION:

MEETING PLACE: San Sebastian (Spain)

YEAR: 2018

266- AUTHORS: A. Nicolenco, N. Imaz, A. Salicio, N. Tsyntsaru, E. Pellicer, J. Sort, H. Cesiulis, E. García-Lecina

TITLE: Effect of alumina sub-microparticles on the mechanical, corrosion and tribological properties of electrodeposited Fe-W composite coatings

TYPE OF PRESENTATION: ORAL

CONGRESS: 32nd International Conference on Surface Modification Technologies (SMT32)

PUBLICATION:

MEETING PLACE: San Sebastian (Spain)

YEAR: 2018

267- AUTHORS: D. Bilican, S. Kurdi, Y. Zhu, P. Solsona, E. Pellicer, Z. Barber, L. A. Greer, J. Sort, J. Fornell

TITLE: Epitaxial versus polycrystalline shape memory CuAlNi thin films

TYPE OF PRESENTATION: POSTER

CONGRESS: ISMANAM 2018

PUBLICATION:

MEETING PLACE: Rome (Italy)

YEAR: 2018

268- AUTHORS: S. Tanbakouei, J.M. Trigo-Rodríguez, J. Sort
TITLE: Physical Properties of Silicate-Rich Regolith Particles from Itokawa Asteroid
TYPE OF PRESENTATION: ORAL
CONGRESS: Hayabusa 2018
PUBLICATION:
MEETING PLACE: Kanagawa (Japan)
YEAR: 2018

269- AUTHORS: M. Fernández-Barcia, B. Jang, C. Alcántara, M. Uhlemann, U. Wolff, A. Gebert, J. Sort, E. Pellicer, S. Pané
TITLE: Magnetic control over compositionally graded Fe-Mn oxide based catalytic micromotors prepared by electrodeposition
TYPE OF PRESENTATION: ORAL
CONGRESS: 13th International Workshop on Electrodeposited Nanostructures
PUBLICATION:
MEETING PLACE: Bristol (UK)
YEAR: 2018

270- AUTHORS: S. Scudino, J. Bian, H.S. Shahabi, D. Söpu, J. Sort, J. Eckert, G. Liu
TITLE: Enhancing the tensile ductility of bulk metallic glasses by designing structural heterogeneities
TYPE OF PRESENTATION: ORAL
CONGRESS: ISMANAM 2018
PUBLICATION:
MEETING PLACE: Rome (Italy)
YEAR: 2018

271- AUTHORS: Z. Li, A. Lopez-Ortega, A. Aranda-Ramos, J.L. Tajada, J. Sort, C. Nogués, P. Varvasori, J. Nogués, B. Sepúlveda
TITLE: Simultaneous local heating/thermometry based on plasmonic magneto-chromic nanodomains
TYPE OF PRESENTATION: ORAL
CONGRESS: EMN (Energy Materials and Nanotechnology) Meeting
PUBLICATION:
MEETING PLACE: Rome (Italy)
YEAR: 2018

272- AUTHORS: C. Navarro Senent, A. Quintana, E. Isarain Chávez, E. Weschke, P. Yu, M. Coll, E. Pellicer, E. Menéndez, J. Sort
TITLE: Boosting Magneto-Ionic Effects in Magnetic Mesoporous Films through Conformal Oxygen Getter/donor Nanocoatings
TYPE OF PRESENTATION: ORAL
CONGRESS: 64th Annual Conference on Magnetism and Magnetic Materials
PUBLICATION:
MEETING PLACE: Las Vegas (USA)
YEAR: 2019

273- AUTHORS: S. Robbennolt, A. Nicolenco, P.M. Fernandez, S. Aufftet, V. Baltz, E. Pellicer, E. Menéndez, J. Sort

TITLE: Large Magnetoelectric Effect in Nanoporous Iron Oxide Thin Films Driven by Magneto-Ionics

TYPE OF PRESENTATION: ORAL

CONGRESS: 64th Annual Conference on Magnetism and Magnetic Materials

PUBLICATION:

MEETING PLACE: Las Vegas (USA)

YEAR: 2019

274- AUTHORS: V. Sireus, E. Menéndez, A. Quintana, I. Fina, B. Casals, R. Cichelero, M. Kataja, M. Stengel, G. Herranz, G. Catalán, M. D. Baró, S. Suriñach, J. Sort

TITLE: Voltage Control of Magnetism in Fe₇₅Al₂₅/PMN-32 PT Multiferroic Heterostructures

TYPE OF PRESENTATION: POSTER

CONGRESS: 64th Annual Conference on Magnetism and Magnetic Materials

PUBLICATION:

MEETING PLACE: Las Vegas (USA)

YEAR: 2019

275- AUTHORS: A. Quintana Puebla, E. Menendez, M. Liedke, M. Butterling, A. Wagner, V. Sireus, P. Torruella, S. Estradé, F. Peiró, J. Dendooven, C. Detavernier, P. Murray, D. Gilbert, E. Pellicer, J. Nogues, J. Sort, K. Liu

TITLE: Room-Temperature Electric Field Controlled On-Off Ferromagnetism in a Single Metal Oxide Film

TYPE OF PRESENTATION: ORAL

CONGRESS: 2019 Joint MMM-Intermag Conference

PUBLICATION:

MEETING PLACE: Washington (USA)

YEAR: 2019

276- AUTHORS: A. Salicio-Paz., H. Grande, A. Dalmau, V. Martinez-Nogues, E. Pellicer, J. Sort, R. Offoich, M. Lekka, E. García-Lecina

TITLE: Microstructure, mechanical properties and tribo-corrosion behavior of electroless Ni-P functional multilayers

TYPE OF PRESENTATION: ORAL

CONGRESS: Eurocorr 2019

PUBLICATION:

MEETING PLACE: Seville (Spain)

YEAR: 2019

277- AUTHORS: K. Eiler, H. Krawiec, I. Kozina, J. Sort, E. Pellicer

TITLE: Effects of the composition and structure of mesoporous Ni-Pt films on their corrosion behaviour in acidic media used for hydrogen evolution reaction

TYPE OF PRESENTATION: ORAL

CONGRESS: Eurocorr 2019

PUBLICATION:

MEETING PLACE: Seville (Spain)

YEAR: 2019

278- AUTHORS: K. Eiler, J. Sort, E. Pellicer

TITLE: Electrochemical synthesis of magnetic mesoporous Ni-Pt alloy thin films for hydrogen evolution reaction

TYPE OF PRESENTATION: ORAL

CONGRESS: Electrochem 2019

PUBLICATION:

MEETING PLACE: Strathclyde (UK)

YEAR: 2019

279- AUTHORS: S. Robbennolt, P. Mercier Fernandez, A. Nicolenco, E. Pellicer, J. Sort

TITLE: Reversible, electric-field induced magneto-ionic control of magnetism in mesoporous cobalt ferrite thin films

TYPE OF PRESENTATION: POSTER

CONGRESS: 62nd International Conference for students of physics and natural sciences

PUBLICATION:

MEETING PLACE: Vilnius (Lithuania)

YEAR: 2019

280- AUTHORS: M. Vainoris, N. Tsyntsaru, E. Podlaha-Murphy, J. Sort, H. Cesiulis

TITLE: Fabrication of porous Co-Pt nanowires and their magnetic applications

TYPE OF PRESENTATION: POSTER

CONGRESS: Open Readings

PUBLICATION:

MEETING PLACE: Vilnius (Lithuania)

YEAR: 2019

281- AUTHORS: M. O. Liedke, M. Butterling, A. Quintana, E. Menéndez, E. Hirschmann, A. G. Attallah, V. Sireus, J. Nogués, J. Sort, A. Wagner

TITLE: Defect mediated ON-OFF ferromagnetism in electrical field controlled metal oxide films

TYPE OF PRESENTATION: ORAL

CONGRESS: EMRS Fall Meeting 2019

PUBLICATION:

MEETING PLACE: Warsaw (Poland)

YEAR: 2019

282- AUTHORS: S. Robbennolt, P. Mercier-Fernández, A. Nicolenco, E. Pellicer, J. Sort

TITLE: Magneto-Ionic Control of Magnetism in Nanoporous CoFe₂O₄ Thin Films Prepared by Evaporation-Induced Self-Assembly

TYPE OF PRESENTATION: POSTER

CONGRESS: SMT33

PUBLICATION:

MEETING PLACE: Naples (Italy)

YEAR: 2019

283- AUTHORS: E. Bertero, H. Madoka, C. V. Manzano, E. Pellicer, J. Sort, I. K. Hermann, R. M. Robert, S. Mischler, J. Michler, L. Philippe

TITLE: Electrodeposited FeCrNi stainless steel-like films from a “green” Cr(III)-based electrolyte: material properties overview and investigation of impurities’ incorporation

TYPE OF PRESENTATION: ORAL

CONGRESS: SMT33

PUBLICATION:

MEETING PLACE: Naples (Italy)
YEAR: 2019

284- AUTHORS: M. Vainoris, N. Tsyntaru, E. Podlaha-Murphy, J. Sort, H. Cesiulis
TITLE: Template assisted electrodeposited porous Co-Pt nanowires and their magnetic properties
TYPE OF PRESENTATION: POSTER
CONGRESS: SMT33
PUBLICATION:
MEETING PLACE: Naples (Italy)
YEAR: 2019

285- AUTHORS: O. Careta, A. Salicio-Paz, E. García-Lecina, J. Fornell, E. Pellicer, J. Sort, C. Nogués, E. Ibáñez, L. Barrios
TITLE: Assessment of Pd foam biocompatibility for electrical stimulation experiments
TYPE OF PRESENTATION: POSTER
CONGRESS: Jornadas Bio UAB
PUBLICATION:
MEETING PLACE: Bellaterra (Spain)
YEAR: 2019

286- AUTHORS: K. Cordero-Edwards, H. Kianirad, C. Canalias, J. Sort, G. Catalan
TITLE: Ferroelectric fracture ratchet effect caused by flexoelectricity
TYPE OF PRESENTATION:
CONGRESS: F2CP2 2019 Joint Conference
PUBLICATION:
MEETING PLACE: Lausanne (Switzerland)
YEAR: 2019

287- AUTHORS: M. O. Liedke, M. Butterling, A. Quintana, E. Menéndez, E. Hirschmann, A. G. Attallah, V. Sireus, J. Nogués, J. Sort, A. Wagner
TITLE: Electrical field-controlled ON-OFF ferromagnetism in metal oxide films
TYPE OF PRESENTATION: ORAL
CONGRESS: SLOPOS-15
PUBLICATION:
MEETING PLACE: Prague
YEAR: 2019

288- AUTHORS: J. de Rojas, E. Menéndez, A. Lopeandía, L. Abad, M. O. Liedke, M. Butterling, A. Wagner, L. Henderick, J. Dendooven, C. Detavernier, J. Sort
TITLE: Role of the electrical properties of substrates in the magneto-ionic behavior of Co₃O₄ thin films
TYPE OF PRESENTATION: POSTER
CONGRESS: Heraeus Seminars
PUBLICATION:
MEETING PLACE: Bad Honnef (Germany)
YEAR: 2020

289- AUTHORS: C. Navarro-Senent, A. Quintana, E. Isarain-Chávez, E. Weschke, P. Yu, M. Coll, E. Pellicer, E. Menéndez, [J. Sort](#)
TITLE: Magneto-ionic effects in magnetic mesoporous films through HfO₂ and Al₂O₃ conformal nanocoatings
TYPE OF PRESENTATION: ORAL
CONGRESS: Heraeus Seminars
PUBLICATION:
MEETING PLACE: Bad Honnef (Germany)
YEAR: 2020

290- AUTHORS: V. Sireus, E. Menéndez, A. Quintana, I. Fina, B. Casals, R. Cicheler, M. Kataja, M. Stengel, G. Herranz, G. Catalán, M. D. Baró, S. Suriñach, [J. Sort](#)
TITLE: Disentangling Highly Asymmetric Magnetoelectric Effects in Engineered Multiferroic Heterostructures
TYPE OF PRESENTATION: POSTER
CONGRESS: Heraeus Seminars
PUBLICATION:
MEETING PLACE: Bad Honnef (Germany)
YEAR: 2020

291- AUTHORS: S. Danilova, J. E. Graves, G. V.W. Cave, [J. Sort](#), E. Pellicer, A. J. Cobley
TITLE: Selective electroless plating on non-conductive materials by applying a gradient magnetic field
TYPE OF PRESENTATION: ORAL
CONGRESS: SPIE Novel Patterning Technologies for Semiconductors MEMS_NEMS and MOEMS 2020
PUBLICATION:
MEETING PLACE: San Jose (USA)
YEAR: 2020

292- AUTHORS: A. Nicolenco, S. Robbenolt, M. Cialone, G. Rius, E. Menéndez, [J. Sort](#)
TITLE: Electric-field Induced Magneto-ionic Control of Magnetism in Highly Porous Iron Oxide Films and Nanostructures
TYPE OF PRESENTATION: ORAL
CONGRESS: CIMTEC 2020
PUBLICATION:
MEETING PLACE: Montecatini (Italy)
YEAR: 2020

293- AUTHORS: J. Fornell, C. Navarro-Senent, S. Suriñach, M. D. Baró, E. Pellicer, H. Torlakcik, X.-Z. Chen, S. Pané, [J. Sort](#)
TITLE: Patterned magnetoelectric FeGa/ZnO composite thin films intended for biomedical applications
TYPE OF PRESENTATION: ORAL
CONGRESS: Thermec 2020
PUBLICATION:
MEETING PLACE: Graz (Austria)
YEAR: 2020

294- AUTHORS: M. Cialone, C. Navarro-Senent, G. Rius, E. Pellicer, [J. Sort](#)

TITLE: Magnetoelectric effects in nanoporous CoPt microstructures
TYPE OF PRESENTATION: POSTER
CONGRESS: Heraeus Seminars
PUBLICATION:
MEETING PLACE: Bad Honnef (Germany)
YEAR: 2020

295- AUTHORS: O. Careta, G. Murillo, J. Fornells, A. Blanquer, E. Ibáñez, J. Esteve, E. Pellicer, J. Sort, C. Nogués
TITLE: Osteoblasts electrical stimulation with nanogenerators build on top of a Ti-based alloy
TYPE OF PRESENTATION: ORAL
CONGRESS: WBC 2020
PUBLICATION:
MEETING PLACE: Glasgow (UK)
YEAR: 2020

296- AUTHORS: N. Domingo, A. Abdollahi, K. Cordero-Eduards, J. Sort, I. Arias, G. Catalan
TITLE: Direct and converse flexoelectricity: the effect of strain and electric field gradients on nanoscale electromechanical responses
TYPE OF PRESENTATION: ORAL
CONGRESS: APS March Meeting 2020
PUBLICATION:
MEETING PLACE: online
YEAR: 2020

297- AUTHORS: K. Eiler, E. García-Lecina, L. Mølmen, L. Fast, J. Sort and E. Pellicer
TITLE: Endurance of electrocatalytic mesoporous Ni-Pt particles supported on three-dimensional C and Ni substrates
TYPE OF PRESENTATION: ORAL
CONGRESS: Eurocorr 2020
PUBLICATION:
MEETING PLACE: online
YEAR: 2020

298- AUTHORS: A. Salicio, A. Dalmau, H. Grande, E. Pellicer, J. Sort, E. García-Lecina
TITLE: Unravelling the tribocorrosion performance of low-P electroless nickel multilayers under cathodic protection
TYPE OF PRESENTATION: ORAL
CONGRESS: Eurocorr 2020
PUBLICATION:
MEETING PLACE: online
YEAR: 2020

299- AUTHORS: M. Cialone, S. Robbenolt, E. Menéndez, A. Nicolenco, G. Rius, J. Sort
TITLE: Control of magnetism in porous iron oxide films and nanostructures via electric field magneto-ionic effect
TYPE OF PRESENTATION: ORAL
CONGRESS: JEMS 2020
PUBLICATION:
MEETING PLACE: online

YEAR: 2020

300- AUTHORS: S.Martins, J. Salguero, J. de Rojas, G. Rius, J. Costa-Kramer, E. Menéndez, J. Sort

TITLE: Thickness dependence of magneto-ionic effects in Co₃O₄ films

TYPE OF PRESENTATION: ORAL

CONGRESS: JEMS 2020

PUBLICATION:

MEETING PLACE: online

YEAR: 2020

301- AUTHORS: K. Eiler, L. Molmen, L. Fast, P. Leisner, J. Sort, E. Pellicer

TITLE: Nanoscale Ni-Mo-Pt alloy catalyst with tuneable composition for hydrogen economy: electrosynthesis and characterisation

TYPE OF PRESENTATION: ORAL

CONGRESS: PRIME 2020

PUBLICATION:

MEETING PLACE: online

YEAR: 2020

302- AUTHORS: A. Nicolenco, N. Tsyntsar, H. Cesiulis, E. Pellicer, J. Sort

TITLE: Nanoporous Fe-Ga alloys with magnetoelectric capabilities

TYPE OF PRESENTATION: ORAL

CONGRESS: ECRES 2020

PUBLICATION:

MEETING PLACE: online

YEAR: 2020

303- AUTHORS: O. Careta, A. Salicio-Paz, E. Pellicer, E. Ibáñez, J. Fornell, E. García-Lecina, J. Sort, C. Nogués

TITLE: Electrical Stimulation of Osteoblast-Like Saos-2 Cells using electroless Palladium-Coated Polymer Scaffolds

TYPE OF PRESENTATION: POSTER

CONGRESS: 31st Conference of the European Society for Biomaterials

PUBLICATION:

MEETING PLACE: Porto (Portugal)

YEAR: 2021

304- AUTHORS: J. de Rojas, A. Quintana, A. Lopeandia, J. Salguero, B. Muñiz, F. Ibrahim, M. Chshiev, A. Nicolenco, M. Liedke, M. Butterling, A. Wagner, L. Henderick, J. Dendooven, C. Detavernier, V. Sireus, L. Abad, C. Jensen, K. Liu, J. Nogués, J. L. Costa-Krämer, E. Menéndez, J. Sort

TITLE: Oxygen vs. Nitrogen Magneto-Ionics

TYPE OF PRESENTATION: ORAL

CONGRESS: Intermag 2021 / virtual

PUBLICATION:

MEETING PLACE: online

YEAR: 2021

305- AUTHORS: J. de Rojas, A. Quintana, A. Lopeandia, J. Salguero, F. Ibrahim, M. Chshiev, M.O. Liedke, M. Butterling, A. Wagner, L. Abad, C. Jensen, K. Liu, J. L. Costa-Krämer, E. Menéndez, [J. Sort](#)

TITLE: Nitrogen magneto-ionics

TYPE OF PRESENTATION: POSTER

CONGRESS: Materials Challenges for Memory 2021 / American Institute of Physics (AIP, APL Mater.)

PUBLICATION:

MEETING PLACE: online

YEAR: 2021

306- AUTHORS: A. Nicolenco, M. Cialone, S. Robbenolt, E. Menéndez, G. Rius, [J. Sort](#)

TITLE: Electric-field control of magnetism in arrays of nanoporous iron oxide microdisks

TYPE OF PRESENTATION: POSTER

CONGRESS: Materials Challenges for Memory 2021 / American Institute of Physics (AIP, APL Mater.)

PUBLICATION:

MEETING PLACE: online

YEAR: 2021

307- AUTHORS: E. Menéndez, J. de Rojas, A. Quintana, [J. Sort](#)

TITLE: ON-OFF magneto-ionics in Co_3O_4

TYPE OF PRESENTATION: POSTER

CONGRESS: Materials Challenges for Memory 2021 / American Institute of Physics (AIP, APL Mater.)

PUBLICATION:

MEETING PLACE: online

YEAR: 2021

308- AUTHORS: K. Eiler, L. Mølmen, L. Fast, P. Leisner, [J. Sort](#), E. Pellicer

TITLE: Electrodeposited electrocatalysts for hydrogen energy

TYPE OF PRESENTATION: ORAL

CONGRESS: Final mcBEEs Workshop

PUBLICATION:

MEETING PLACE: online

YEAR: 2021

309- AUTHORS: J.M.A. Escobar Hernández, [J. Sort](#), E. Pellicer

TITLE: Electrodeposition and characterization of hydroxyapatite/silver nanoparticles composite coatings on newly developed β -type TiMoNbTa alloy

TYPE OF PRESENTATION: ORAL

CONGRESS: Euromat 2021

PUBLICATION:

MEETING PLACE: Graz (Austria), online

YEAR: 2021

310- AUTHORS: M. Cialone, A. Nicolenco, S. Robbenolt, E. Menéndez, G. Rius, [J. Sort](#)

TITLE: Voltage-induced ON switching of magnetism in ordered array of nanoporous iron oxide microdisks

TYPE OF PRESENTATION: ORAL

CONGRESS: 27th International Workshop on oxide electronics
PUBLICATION:
MEETING PLACE: Genoa (Italy)
YEAR: 2021

311- AUTHORS: S. Martins, J. de Rojas, Z. Tan, M. Cialone, A. Lopeandia, J. Herrero-Martín, J. L. Costa-Krämer, E. Menéndez, J. Sort
TITLE: Dynamic electric-field-induced magnetic effects in cobalt oxide thin films: towards magneto-ionic synapses
TYPE OF PRESENTATION: ORAL
CONGRESS: 2022 Joint MMM-Intermag
PUBLICATION:
MEETING PLACE: New Orleans (USA)
YEAR: 2022

312- AUTHORS: M. de la Óra, J. Castell-Queralt, A. Kursomovic, A. Nicolenco, J. Sort, J. L. MacManus-Driscoll
TITLE: Magnetoelectric Coupling in Inorganic/Organic Hybrid Composite Thin Films
TYPE OF PRESENTATION: ORAL
CONGRESS: MRS Spring Meeting 2022
PUBLICATION:
MEETING PLACE: Honolulu (USA)
YEAR: 2022

313- AUTHORS: S. Martins, Z. Ma, E. Pellicer, E. Menéndez, J. Sort
TITLE: Enhancing room temperature magneto-ionic motion in cobalt oxide by electrolyte engineering
TYPE OF PRESENTATION: POSTER
CONGRESS: 23rd International Conference on Solid State Ionics (SSI-23)
PUBLICATION:
MEETING PLACE: Boston (USA)
YEAR: 2022

314- AUTHORS: E. Menéndez, S. Martins, J. de Rojas, A. Quintana, J. Sort
TITLE: ON-OFF ferromagnetism in Co_3O_4 by voltage-driven oxygen ion transport
TYPE OF PRESENTATION: ORAL
CONGRESS: 23rd International Conference on Solid State Ionics (SSI-23)
PUBLICATION:
MEETING PLACE: Boston (USA)
YEAR: 2022

315- AUTHORS: J. de Rojas, Z. Tan, A. Quintana, E. Menéndez, J. Sort
TITLE: Thinking Magneto-ionics: Neuromorphic Functionalities in Magnetic Nitride Films
TYPE OF PRESENTATION: ORAL
CONGRESS: IOP Magnetism Conference
PUBLICATION:
MEETING PLACE: York, United Kingdom
YEAR: 2022

316- AUTHORS: A. Bartkowska, O. Careta, C. Nogues, E. Pellicer, J. Sort
TITLE: Engineered porous Fe₅₀Mn₅₀ alloys with addition of Ag as antibacterial element for biodegradable implant applications
TYPE OF PRESENTATION: ORAL
CONGRESS: Junior Euromat
PUBLICATION:
MEETING PLACE: Coimbra, Portugal
YEAR: 2022

317- AUTHORS: A. Nicolenco, N. Tsyntsar, H. Cesiulis, E. Pellicer, J. Sort
TITLE: Functional properties of Fe-Ga alloys prepared by electrodeposition
TYPE OF PRESENTATION: ORAL
CONGRESS: 5th International Conference on Nanomaterials Science and Mechanical Engineering
PUBLICATION:
MEETING PLACE: Aveiro, Portugal
YEAR: 2022

318- AUTHORS: M. O. Liedke, M. Butterling, J. de Rojas, A. Quintana, A. Lopeandía, E. Menéndez, J. L. Costa-Krämer, E. Hirschmann, J. Sort, A. Wagner
TITLE: Defect-assisted ion transport in magneto-ionic nitrides probed by positrons
TYPE OF PRESENTATION: ORAL
CONGRESS: 19th International Conference on Positron Annihilation, ICPA-19
PUBLICATION:
MEETING PLACE: Helsinki, Finland
YEAR: 2022

319- AUTHORS: E. Menéndez, S. Martins, J. de Rojas, A. Quintana, Z. Tan, J. L. Costa-Krämer, J. Sort
TITLE: ON-OFF ferromagnetism in Co₃O₄ by voltage-driven oxygen ion migration
TYPE OF PRESENTATION: ORAL
CONGRESS: MMM 2022
PUBLICATION:
MEETING PLACE: Minneapolis, USA
YEAR: 2022

320- AUTHORS: Z. Tan, J. de Rojas, A. Quintana, J. L. Costa-Krämer, E. Menéndez, J. Sort
TITLE: Boosting nitrogen magneto-ionics: from binary to ternary transition metal nitrides
TYPE OF PRESENTATION: ORAL
CONGRESS: MMM 2022
PUBLICATION:
MEETING PLACE: Minneapolis, USA
YEAR: 2022

321- AUTHORS: Z. Ma, S. Martins, E. Pellicer, E. Menendez, J. Sort
TITLE: Improving Voltage-driven ON-OFF Ferromagnetism in Cobalt Oxide via Electrolyte Engineering
TYPE OF PRESENTATION: ORAL
CONGRESS: MMM 2022
PUBLICATION:

MEETING PLACE: Minneapolis, USA
YEAR: 2022

322- AUTHORS: D. Raja, G. Barrerab, F. Celegatob, A. Nicolenco, J. Sort, E. Pellicer, P. Tiberto, P. Rizzi
TITLE: Dense and Mesoporous FePd Nanowires as Excellent SERS-active Substrates
TYPE OF PRESENTATION: ORAL
CONGRESS: Junior Euromat 2022
PUBLICATION:
MEETING PLACE: Coimbra, Portugal
YEAR: 2022

323- AUTHORS: J.M.A. Escobar Hernández, J. Sort, E. Pellicer
TITLE: Antibacterial hydroxyapatite/silver composite coatings onto mechanically improved TiMoNbTa alloy: evaluation and optimization of electrodeposition processes
TYPE OF PRESENTATION: ORAL
CONGRESS: Junior Euromat 2022
PUBLICATION:
MEETING PLACE: Coimbra, Portugal
YEAR: 2022

324- AUTHORS: D. Raja, G. Barrerab, F. Celegatob, A. Nicolenco, J. Sort, E. Pellicer, P. Tiberto, P. Rizzi
TITLE: Dense and Mesoporous FePd Nanowires as Excellent SERS-active Substrates
TYPE OF PRESENTATION: ORAL
CONGRESS: E-MRS-2022
PUBLICATION:
MEETING PLACE: virtual
YEAR: 2022

325- AUTHORS: A. Barkowska, E. Pellicer, J. Sort
TITLE: Recent progress in the growth and characterization of FeMnAg alloys
TYPE OF PRESENTATION: ORAL
CONGRESS: BIOREMIA summer school, Nanomaterials and Nanotechnologies for the prevention of bacterial biofilms
PUBLICATION:
MEETING PLACE: Ioannina, Greece
YEAR: 2022

326- AUTHORS: M. Escobar, E. Pellicer, J. Sort
TITLE: Novel Ti-based alloys with antibactericide coatings
TYPE OF PRESENTATION: ORAL
CONGRESS: BIOREMIA summer school, Nanomaterials and Nanotechnologies for the prevention of bacterial biofilms
PUBLICATION:
MEETING PLACE: Ioannina, Greece
YEAR: 2022

327- AUTHORS: S. Martins, E. Menéndez, E. Pellicer, J. Sort

TITLE: Improving magneto-ionic rates by electrolyte engineering
TYPE OF PRESENTATION: ORAL
CONGRESS: BeMAGIC Workshop
PUBLICATION:
MEETING PLACE: Innsbruck, Austria
YEAR: 2022

328- AUTHORS: Z. Tan, E. Menéndez, E. Pellicer, J. Sort
TITLE: Emulating neuronal synapses using nitrogen magneto-ionics
TYPE OF PRESENTATION: ORAL
CONGRESS: BeMAGIC Workshop
PUBLICATION:
MEETING PLACE: Innsbruck, Austria
YEAR: 2022

329- AUTHORS: M. O. Liedke, M. Butterling, J. de Rojas, A. Quintana, A. Lopeandía, E. Menéndez, E. Hirschmann, A. G. Attallah, J. Sort, A. Wagner
TITLE: Defect-assisted ion transport in magneto-ionic functional oxides and nitrides probed by positrons
TYPE OF PRESENTATION: ORAL
CONGRESS: E-MRS-2022 Fall meeting
PUBLICATION:
MEETING PLACE: Warsaw, Poland
YEAR: 2022

330- AUTHORS: K. Eiler, R. Fagotto Clavijo, A. González-Campo, J. Sort, E. García-Lecina, M. Lekka, E. Pellicer
TITLE: Highly nanoporous Ni-based electrocatalysts by electrodeposition
TYPE OF PRESENTATION: ORAL
CONGRESS: TNT 2022
MEETING PLACE: Warsaw, Poland
YEAR: 2022

331- AUTHORS: A. Bartkowska, A. Blanquer, A. Turner, M. Trobos, C. Nogués, E. Pellicer, J. Sort
TITLE: Porous Fe-Mn alloys with additions of Ag/ZnO for biodegradable implant applications with antibiofilm properties
TYPE OF PRESENTATION: ORAL
CONGRESS: Thermec 23
PUBLICATION:
MEETING PLACE: Graz, Austria
YEAR: 2023

332- AUTHORS: Z. Ma, M. Peda, E. Pellicer, E. Menéndez, J. Sort
TITLE: Room-temperature magneto-ionic control of ON-OFF ferromagnetism in bimetallic FeCo nitrides
TYPE OF PRESENTATION: ORAL
CONGRESS: AIM 23
PUBLICATION:
MEETING PLACE: Moena / Italy

YEAR: 2023

333- AUTHORS: P. Monalisha, Z. Ma, E. Pellicer, E. Menéndez, J. Sort
TITLE: Synaptic plasticity modulation in magneto-ionic synapse for neuromorphic computing
TYPE OF PRESENTATION: POSTER
CONGRESS: Neuromorphic Materials, Devices, Circuits and Systems (NeuMatDeCaS)
PUBLICATION:
MEETING PLACE: online
YEAR: 2023

334- AUTHORS: E. Menéndez, J. Sort
TITLE: Deep materials: neuromorphic
TYPE OF PRESENTATION: ORAL/POSTER (exhibition)
CONGRESS: Mobile World Congress - 4YFN
PUBLICATION:
MEETING PLACE: Barcelona, Spain
YEAR: 2023

335- AUTHORS: E. Niapos, J. A. Arregi, L. Čelko, E. Menéndez, V. Uhlíř, J. Sort
TITLE: Control of Exchange Bias in HfO₂/Co via Magneto-ionic Motion
TYPE OF PRESENTATION: ORAL
CONGRESS: Intermag 2023
PUBLICATION:
MEETING PLACE: Sendai, Japan
YEAR: 2023

336- AUTHORS: P. Nizet, N. López-Pintó, F. Chiabrera, E. Menendez, E. Pellicer, A. Morata, F. Baiutti, J. Sort, A. Tarancón
TITLE: Control of functional properties of perovskite oxides by voltage-driven oxygen-ion transport
TYPE OF PRESENTATION: POSTER
CONGRESS: E-MRS Spring Meeting
PUBLICATION:
MEETING PLACE: Strasbourg, France
YEAR: 2023

337- AUTHORS: A. Arrendono, E. Menéndez, E. Pellicer, J. Sort
TITLE: Magneto-ionic effects in mesoporous oxidized Ni-Co alloy electrodeposited films
TYPE OF PRESENTATION: POSTER
CONGRESS: 7th Scientific Meeting of Phd Students
PUBLICATION:
MEETING PLACE: Bellaterra, Spain
YEAR: 2023

338- AUTHORS: R. De Paz, T. Collet, A. Hubin, J. Sort, E. Pellicer
TITLE: Electrodeposited Ni-W coatings for hydrogen evolution reaction in acidic media: insights on electrocatalyst durability
TYPE OF PRESENTATION: ORAL
CONGRESS: JPhD2023 7th Scientific Meeting
PUBLICATION:

MEETING PLACE: Bellaterra, Spain
YEAR: 2023

339- AUTHORS: Z. Ma, L. Fuentes-Rodriguez, Z. Tan, E. Pellicer, L. Abad, J. Herrero-Martín, E. Menéndez, N. Casañ-Pastor, J. Sort
TITLE: Magneto-ionic control of magnetism via wireless bipolar electrochemistry in CoN thin films
TYPE OF PRESENTATION: ORAL
CONGRESS: JEMS 2023
PUBLICATION:
MEETING PLACE: Madrid, Spain
YEAR: 2023

340- AUTHORS: E. Pellicer, S. Martins, Z. Ma, N. López-Pintó, A. Arredondo, X. Solans-Monfort, L. Rodriguez-Santiago, M. Sodupe, E. Menéndez, J. Sort
TITLE: Enhancing magneto-ionics in electrolyte-gated cobalt oxide thin films by fine tuning electrolyte composition
TYPE OF PRESENTATION: ORAL
CONGRESS: JEMS 2023
PUBLICATION:
MEETING PLACE: Madrid, Spain
YEAR: 2023

341- AUTHORS: Z. Tan, J. de Rojas, A. Quintana, J. L. Costa-Krämer, E. Menéndez, J. Sort
TITLE: Brain-inspired magneto-ionics in transition metal nitrides
TYPE OF PRESENTATION: ORAL
CONGRESS: JEMS 2023
PUBLICATION:
MEETING PLACE: Madrid, Spain
YEAR: 2023

342- AUTHORS: P. Monalisha, Z. Ma , N. López Pintó, E. Pellicer, E. Menéndez, J. Sort
TITLE: Artificial Synapses based on Voltage-Controlled Magnetism via Nitrogen Ion Migration for Neuromorphic Computing
TYPE OF PRESENTATION: ORAL
CONGRESS: JEMS 2023
PUBLICATION:
MEETING PLACE: Madrid, Spain
YEAR: 2023

343- AUTHORS: P. Monalisha, Z. Ma, E. Pellicer , E. Menéndez, J. Sort
TITLE: Multilevel Magnetic Synapses Based on Voltage-controlled Ion Migration for Neuromorphic Application
TYPE OF PRESENTATION: POSTER
CONGRESS: MMM
PUBLICATION:
MEETING PLACE: Dallas, USA
YEAR: 2023

344- AUTHORS: P. Grèbol-Tomàs, J. M. Trigo-Rodríguez, J. Ibáñez-Insa, E. Peña-Asensio, R. Cuscó, I. Weber, J. Sort
TITLE: Nanoindentation of lunar basalts: mechanical properties of the NWA 12008 meteorite
TYPE OF PRESENTATION: POSTER
CONGRESS: 55th Lunar and Planetary Science Conference
PUBLICATION:
MEETING PLACE: The Woodlands, USA
YEAR: 2024

345- AUTHORS: E. Peña-Asensio, J. M. Trigo-Rodríguez, J. Sort, J. Ibáñez-Insa, A. Rimola, P. Grèbol-Tomàs
TITLE: Machine learning of lunar meteorites: classification and mechanical property prediction with prior-data fitted network and regression models
TYPE OF PRESENTATION: Poster
CONGRESS: 55th Lunar and Planetary Science Conference
PUBLICATION:
MEETING PLACE: The Woodlands, USA
YEAR: 2024

346- AUTHORS: A. Arredondo-López, K. Eiler, A. Quintana, G. Rius, I. Spasojevic, A. Salicio, A. Nicolenco, M. Lekka, E. García-Lecina, G. Brunin, D. Waroquiers, G.-M. Rigagnese, E. Pellicer, E. Menéndez, J. Sort
TITLE: Composition-dependent voltage-driven OFF-ON switching of ferromagnetism in Co-Ni oxide microdisks
TYPE OF PRESENTATION: ORAL
CONGRESS: JPHD 2024
PUBLICATION:
MEETING PLACE: Bellaterra, Spain
YEAR: 2024

347- AUTHORS: P. Nizet, F. Chiabrera, N. López-Pintó, N. Alayo, P. Langner, F. Baiutti, A. Morata, J. Sort, A. Tarancón
TITLE: Electrochemical oxygen intercalation for precise tuning of functionalities in nextgeneration oxide-based devices
TYPE OF PRESENTATION: ORAL
CONGRESS: International Workshop on Oxide Electronics
PUBLICATION:
MEETING PLACE: Damstadt, Germany
YEAR: 2024

348- AUTHORS: I.Fina, T. Zakusylo, A. Quintana, V. Lenzi, J.L. Ortola, J. Silva, L. Marques, J. Lyu, J. Sort, F.Sanhcez
TITLE: Robust Ferroelectricity and Magnetoelectric Coupling in an Epitaxial-Hf_{0.5}Zr_{0.5}O₂-based Multiferroic System
TYPE OF PRESENTATION: ORAL
CONGRESS: UFFC_JS_2024
PUBLICATION:
MEETING PLACE: Taipei, Taiwan
YEAR: 2024

349- AUTHORS: I. Fina, H. Tan, A. Quintana, N. Dix, S. Estandía, J. Sort, F. Sánchez

TITLE: Control of Ferroelectric Polarization by Light in an Absorbing System Based on Ferroelectric HfO₂ Revealed by PFM
TYPE OF PRESENTATION: ORAL
CONGRESS: UFFC_JS_2024
PUBLICATION:
MEETING PLACE: Taipei, Taiwan
YEAR: 2024

350- AUTHORS: B. Hernández-Concepción, A. Garcia-Casas, E. Pellicer, J. Sort, M. Lekka, E. García-Lecina
TITLE: Development and characterisation of Ni-based coatings with hydrogen barrier properties
TYPE OF PRESENTATION: Poster
CONGRESS: Eurocorr 2024
PUBLICATION:
MEETING PLACE: Paris, France
YEAR: 2024

351- AUTHORS: P. Grèbol-Tomàs, J. M. Trigo-Rodríguez, J. Ibáñez-Insa, E. Peña-Asensio, R. Cuscó, I. Weber, J. Sort
TITLE: Nanoindentation of Lunar Basalts: Mechanical Properties of the Northwest Africa 12008 Meteorite
TYPE OF PRESENTATION: ORAL
CONGRESS: Annual Meetings of the Meteoritical Society 2024
PUBLICATION:
MEETING PLACE: Brussels, Belgium
YEAR: 2024

352- AUTHORS: K. Eiler, J. Sort, E. Pellicer
TITLE: Magnetic field-enhanced hydrogen evolution reaction on Ni foam electrodes
TYPE OF PRESENTATION: ORAL
CONGRESS: ANM 2024
PUBLICATION:
MEETING PLACE: Aveiro, Portugal
YEAR: 2024

353- AUTHORS: P. Nizet, F. Chiabrera, N. López-Pintó, N. Alayo, P. Langner, F. Baiutti, E. Pellicer, A. Morata, J. Sort, A. Tarancón
TITLE: Oxygen-ion control and functional properties of La_{1-x}Sr_xFeO_{3-δ}
TYPE OF PRESENTATION: ORAL
CONGRESS: Solid State Ionics 2024
PUBLICATION:
MEETING PLACE: Westminster, UK
YEAR: 2024

354- AUTHORS: A. Quintana, T. Zakusylo, J. L. Ortolá Yano, V. Lenzi, J. P. B. Silva, L. Marques, J. Lyu, J. Sort, F. Sánchez, Ignasi Fina
TITLE: Co/Hf_{0.5}Zr_{0.5}O₂ multiferroic heterostructures
TYPE OF PRESENTATION: ORAL
CONGRESS: Bienal RSEF
PUBLICATION:

MEETING PLACE: San Sebastian, Spain
YEAR: 2024

355- AUTHORS: E. Niapos, J. Ander Arregi, L. Čelko, E. Menéndez, V. Uhlíř, J. Sort
TITLE: Electrical control of exchange bias in HfO₂/CoO/Co heterostructures through voltage-driven oxygen ion motion
TYPE OF PRESENTATION: Poster
CONGRESS: 25th International Colloquium on Magnetic Films and Surfaces (ICMFS2024)
PUBLICATION:
MEETING PLACE: Perugia, Italy
YEAR: 2024

356- AUTHORS: A. Arredondo-López, K. Eiler, G. Rius, A. Salicio, A. Nicolenco, I. Spasojevic, E. Pellicer, E. Menéndez, J. Sort
TITLE: Magneto-ionic Behavior in Oxidized Co-Ni Microdisks: a Boost towards Future Magnetoelectric Devices
TYPE OF PRESENTATION: ORAL
CONGRESS: ICM2024
PUBLICATION:
MEETING PLACE: Bologna, Italy
YEAR: 2024

357- AUTHORS: I. Spasojević, Z. Ma, A. Barrera, F. Celegato, E. Menéndez, A. Palau, K. S. Buchanan, P. Tiberto, J. Sort
TITLE: Voltage-induced manipulation of magnetic nanodots: generation and fine-tuning of magnetic vortices
TYPE OF PRESENTATION: Poster
CONGRESS: ICM2024
PUBLICATION:
MEETING PLACE: Bologna, Italy
YEAR: 2024

358- AUTHORS: Z. Ma, S. Martins, Z. Tan, S. Chen, E. Montebancho, M. O. Liedke, M. Butterling, A. G. Attallah, E. Hirschmann, A. Wagner, A. Quintana, E. Pellicer, D. Ravelosona, J. Sort, E. Menéndez
TITLE: Controlling Magneto-Ionics by Defect Engineering Through Light Ion Implantation
TYPE OF PRESENTATION: ORAL
CONGRESS: MMM-Intermag 2025
PUBLICATION:
MEETING PLACE: New Orleans, USA
YEAR: 2025

359- AUTHORS: N. López-Pintó, C. J. Jensen, Z. Chen, Z. Tan, M. O. Liedke, M. Butterling, A. Wagner, J. Herrero-Martín, E. Menéndez, J. Nogués, K. Liu, J. Sort
TITLE: Magneto-Ionically Tuning the Magnetization and Exchange Bias in all-solid-state CoMnN Heterostructures
TYPE OF PRESENTATION: ORAL
CONGRESS: MMM-Intermag 2025
PUBLICATION:
MEETING PLACE: New Orleans, USA
YEAR: 2025

360- AUTHORS: I. Spasojević, Z. Ma, A. Barrera, F. Celegato, A. Palau , K. S. Buchanan, P. Tiberto, J. Sort
TITLE: Magneto-Ionic Vortices: Voltage-Controlled Curling-Spin Analog-Memory Nanomagnets
TYPE OF PRESENTATION: Poster
CONGRESS: MMM-Intermag 2025
PUBLICATION:
MEETING PLACE: New Orleans, USA
YEAR: 2025

361- AUTHORS: P. Nizet, F. Chiabrera, N. López-Pintó, N. Alayo, P. Langner, F. Baiutti, A. Morata, J. Sort, A. Tarancón
TITLE: Regulating the Magnetic Properties of $\text{La}_{0.5}\text{Sr}_{0.5}\text{FeO}_{3-\delta}$ Through Voltage-Controlled Oxygen Content
TYPE OF PRESENTATION: ORAL
CONGRESS: MMM-Intermag 2025
PUBLICATION:
MEETING PLACE: New Orleans, USA
YEAR: 2025

362- AUTHORS: I. Fina, T. Song, H. Tan, T. Zakusylo, A. Quintana, N. Dix, P. Koutsogiannis, J. L. Ortola, J. Lyu, S. Estandía, J. Sort, C. Magén, J.A. Pardo, V. Lenzi, L. Marques, J. Silva, F. Sánchez
TITLE: Ferroelectric hafnia: an opportunity for next-gen memory devices
TYPE OF PRESENTATION: ORAL
CONGRESS: GEFES 2025
PUBLICATION:
MEETING PLACE: Oviedo, Spain
YEAR: 2025

363- AUTHORS: P. Nizet, F. Chiabrera, N. López-Pintó, N. Alayo, P. Langner, F. Baiutti, A. Morata, J. Sort, A. Tarancón
TITLE: Electrochemical control of oxygen deficiency in $(\text{La,Sr})\text{FeO}_{3-\delta}$ thin films for precise modulation of magnetic and electrical properties
TYPE OF PRESENTATION: ORAL
CONGRESS: Electronic Materials and Applications (EMA 2025)
PUBLICATION:
MEETING PLACE: Denver, USA
YEAR: 2025

364- AUTHORS: P. Nizet, F. Chiabrera, N. López-Pintó, N. Alayo, P. Langner, F. Baiutti, A. Morata, J. Sort, A. Tarancón
TITLE: The role of voltage-control of oxygen-vacancy-induced magnetic transition on the electrical conductivity of $\text{La}_{0.5}\text{Sr}_{0.5}\text{FeO}_{3-\delta}$
TYPE OF PRESENTATION: POSTER
CONGRESS: ISAF 2025
PUBLICATION:
MEETING PLACE: Graz, Austria
YEAR: 2025

365- AUTHORS: I. Fina, T. Song, H. Tan, T. Zakusylo, A. Quintana, N. Dix, P. Koutsogiannis, J.L. Ortola, J. Lyu, S. Estandía, C. Magén, J. A. Pardo, V. Lenzi, L. Marques, J. Sort, J. Silva, F. Sánchez

TITLE: Exploiting interface engineering in epitaxial ferroelectric hafnia to investigate novel phenomena

TYPE OF PRESENTATION: ORAL

CONGRESS: 2025 IEEE International Symposium on Applications of Ferroelectrics

PUBLICATION:

MEETING PLACE: Graz, Austria

YEAR: 2025

PhD Theses Supervised

TITLE: Deformation behavior and strengthening of bulk metallic glasses and nanocomposites

Ph. D. STUDENT: Amadeu Concustell

CO-SUPERVISORS: Jordi Sort, Dolors Baró

UNIVERSITY: Universitat Autònoma de Barcelona

FACULTY/SCHOOL: Sciences

DATE: 22/03/2007

MARK: Excellent Cum Laude

TITLE: Study of the structural changes in Zr-based bulk metallic glasses upon annealing and deformation processes

Ph. D. STUDENT: Nele van Steenberge

CO-SUPERVISORS: Dolors Baró, Jordi Sort

UNIVERSITY: Universitat Autònoma de Barcelona

FACULTY/SCHOOL: Sciences

DATE: 20/06/2008

MARK: Excellent Cum Laude

TITLE: Generation of ferromagnetism on non-magnetic materials

Ph. D. STUDENT: Enric Menéndez

CO-SUPERVISORS: Jordi Sort, Josep Nogués

UNIVERSITY: Universitat Autònoma de Barcelona

FACULTY/SCHOOL: Sciences

DATE: 26/11/2008

MARK: Excellent Cum Laude

TITLE: Metallic glasses and derived composite materials: a correlation between microstructure and mechanical properties

Ph. D. STUDENT: Jordina Fornell

SUPERVISOR: Jordi Sort

UNIVERSITY: Universitat Autònoma de Barcelona

FACULTY/SCHOOL: Sciences

DATE: 26/04/2012

MARK: "Apte" Cum Laude

TITLE: Multifunctional electrodeposited nanocrystalline Cu-Ni films

Ph. D. STUDENT: Aïda Varea

CO-SUPERVISORS: Jordi Sort, Eva Pellicer
UNIVERSITY: Universitat Autònoma de Barcelona
FACULTY/SCHOOL: Sciences
DATE: 01/02/2013 **MARK:** "Apte" Cum Laude

TITLE: Biocompatible Ti-based metallic glasses and nanocomposite materials
Ph. D. STUDENT: Anna Hynowska
CO-SUPERVISORS: Dolors Baró, Eva Pellicer, Jordi Sort
UNIVERSITY: Universitat Autònoma de Barcelona
FACULTY/SCHOOL: Sciences
DATE: 31/10/2014 **MARK:** "Apte" Cum Laude

TITLE: Electrodeposition of novel nanostructured and porous materials for advanced applications: synthesis, structural characterization and physical/chemical performance
Ph. D. STUDENT: Jin Zhang
CO-SUPERVISORS: Eva Pellicer, Jordi Sort
UNIVERSITY: Universitat Autònoma de Barcelona
FACULTY/SCHOOL: Sciences
DATE: 22/07/2016 **MARK:** "Apte" Cum Laude

TITLE: Correlation between the microstructure and physical properties of nanocrystalline and nanocomposite electrodeposited 2D and 1D materials
Ph. D. STUDENT: Irati Golvano
CO-SUPERVISORS: Eva Pellicer, Jordi Sort
UNIVERSITY: Universitat Autònoma de Barcelona
FACULTY/SCHOOL: Sciences
DATE: 30th March 2017 **MARK:** Excellent Cum Laude

TITLE: Synthesis and assessment of the mechanical, magnetic and photoluminescence properties of nanoporous oxide materials for advanced engineering applications
Ph. D. STUDENT: Junpeng Fan
CO-SUPERVISORS: Miguel Guerrero, Eva Pellicer, Jordi Sort
UNIVERSITY: Universitat Autònoma de Barcelona
FACULTY/SCHOOL: Sciences
DATE: 23rd October 2017 **MARK:** Excellent Cum Laude

TITLE: Synthesis, structural characterization and mechanical properties of nanocrystalline alloys and bulk amorphous alloys for novel engineering applications
Ph. D. STUDENT: Yuping Feng
CO-SUPERVISORS: Jordina Fornell, Eva Pellicer, Jordi Sort
UNIVERSITY: Universitat Autònoma de Barcelona
FACULTY/SCHOOL: Sciences
DATE: 30th October 2017 **MARK:** Excellent Cum Laude

TITLE: Synthesis, structure, magnetic properties and magnetoelectric effects in porous materials
Ph. D. STUDENT: Alberto Quintana
CO-SUPERVISORS: Eva Pellicer, Enric Menéndez, Jordi Sort
UNIVERSITY: Universitat Autònoma de Barcelona
FACULTY/SCHOOL: Sciences

DATE: 20th June 2018 **MARK:** Excellent Cum Laude

TITLE: Electrodeposition of rare-earth- and noble metal-free hard-magnetic, shape-memory and magnetostrictive alloys

Ph. D. STUDENT: Doga Bilican

CO-SUPERVISORS: Jordi Sort, Eva Pellicer, Jordina Fornell

UNIVERSITY: Universitat Autònoma de Barcelona

FACULTY/SCHOOL: Sciences

DATE: 29th June 2018 **MARK:** Excellent

TITLE: Template-assisted and template-free electrodeposition of nanoporous metallic coatings

Ph. D. STUDENT: Evangelia Dislaki

CO-SUPERVISORS: Eva Pellicer, Jordi Sort

UNIVERSITY: Universitat Autònoma de Barcelona

FACULTY/SCHOOL: Sciences

DATE: 26th October 2018 **MARK:** Excellent Cum Laude

TITLE: Development and characterization of novel electroless nickel coatings: multifunctional applications from the micro to the nanoscale

Ph. D. STUDENT: Asier Salicio

CO-SUPERVISORS: Eva Pellicer, Eva García-Lecina, Jordi Sort

UNIVERSITY: Universitat Autònoma de Barcelona

FACULTY/SCHOOL: Sciences

DATE: 20th November 2020 **MARK:** Excellent Cum Laude

TITLE: Synthesis and magnetoelectric properties of Co-Pt based porous materials

Ph. D. STUDENT: Cristina Navarro-Senent

CO-SUPERVISORS: Eva Pellicer, Jordi Sort

UNIVERSITY: Universitat Autònoma de Barcelona

FACULTY/SCHOOL: Sciences

DATE: 18th December 2020 **MARK:** Excellent Cum Laude

TITLE: Electrodeposition of nanostructured nickel-platinum-based electrocatalysts for hydrogen energy systems

Ph. D. STUDENT: Konrad Eiler

CO-SUPERVISORS: Eva Pellicer, Jordi Sort

UNIVERSITY: Universitat Autònoma de Barcelona

FACULTY/SCHOOL: Sciences

DATE: 29th July 2021 **MARK:** Excellent Cum Laude

TITLE: Control of magnetism with voltage in ferromagnetic/ferroelectric multiferroic heterostructures

Ph. D. STUDENT: Veronica Sireus

CO-SUPERVISORS: Enric Menéndez, Jordi Sort

UNIVERSITY: Universitat Autònoma de Barcelona

FACULTY/SCHOOL: Sciences

DATE: 2nd September 2022 **MARK:** Excellent Cum Laude

TITLE: Boosting magneto-ionic effects in Co oxide films by electrolyte gating

Ph. D. STUDENT: Sofia Martins
CO-SUPERVISORS: Enric Menéndez, Eva Pellicer, Jordi Sort
UNIVERSITY: Universitat Autònoma de Barcelona
FACULTY/SCHOOL: Sciences
DATE: 27th March 2023 **MARK:** Excellent

TITLE: Fabrication and characterization of FeMn alloys with antibiofilm properties for biodegradable implant applications
Ph. D. STUDENT: Aleksandra Bartkowska
CO-SUPERVISORS: Eva Pellicer, Carme Nogués, Jordi Sort
UNIVERSITY: Universitat Autònoma de Barcelona
FACULTY/SCHOOL: Sciences
EXPECTED DATE OF DEFENSE: 9th November 2023 **MARK:** Excellent Cum Laude

TITLE: Optimizing magneto-ionics: towards brain-inspired functionalities
Ph. D. STUDENT: Tan Zhengwei
CO-SUPERVISORS: Enric Menéndez, Jordi Sort
UNIVERSITY: Universitat Autònoma de Barcelona
FACULTY/SCHOOL: Sciences
DATE: 4th December 2023 **MARK:** Excellent Cum Laudem

- I have been “**Academic Tutor**” of the following PhD recipients from the UAB Campus: Victor Rouco, Jordi Llobet, Regina Galceran, Jackeline Narvaez, Pablo Cayado, Rohini Kumara Cordero, Fanmao Liu, Laura Mir, Yuping Feng, Fabian Vasquez, Marc González, Rafael Cichelero, Pengyi Tang, Doga Bilican, Onés Temiño, Sara Marti, Qiaoming Zhang, Safoura Tanbakouei, Cristina Navarro-Senent, etc.

Ongoing PhD Theses

TITLE: Aqueous electrodeposition of hydroxyapatite (HA) and Ag NPs-HA and ZnO-HA composite films with antifouling performance
Ph. D. STUDENT: Michael Escobar
CO-SUPERVISORS: Eva Pellicer, Jordi Sort
UNIVERSITY: Universitat Autònoma de Barcelona
FACULTY/SCHOOL: Sciences
EXPECTED DATE OF DEFENSE: December 2023

TITLE: Magnetoelectric effects in CoNi mesoporous alloys
Ph. D. STUDENT: Aitor Arredondo
CO-SUPERVISORS: Eva Pellicer, Enric Menéndez, Jordi Sort
UNIVERSITY: Universitat Autònoma de Barcelona
FACULTY/SCHOOL: Sciences
EXPECTED DATE OF DEFENSE: October 2025

TITLE: Bringing magnetoelectric effects to data security

Ph. D. STUDENT: Nicolau López
CO-SUPERVISORS: Eva Pellicer, Enric Menéndez, Jordi Sort
UNIVERSITY: Universitat Autònoma de Barcelona
FACULTY/SCHOOL: Sciences
EXPECTED DATE OF DEFENSE: September 2025

TITLE: Merging magneto-ionics with nanocalorimetry for spin-electronic applications
Ph. D. STUDENT: Simone Privitera-Uno
CO-SUPERVISORS: Aitor Lopeandia, Enric Menéndez, Jordi Sort
UNIVERSITY: Universitat Autònoma de Barcelona
FACULTY/SCHOOL: Sciences
EXPECTED DATE OF DEFENSE: February 2027

TITLE: Exchange biased magneto-ionic vortices
Ph. D. STUDENT: Luís Martínez Armesto
CO-SUPERVISORS: Irena Spasojevic, Eva Pellicer, Jordi Sort
UNIVERSITY: Universitat Autònoma de Barcelona
FACULTY/SCHOOL: Sciences
EXPECTED DATE OF DEFENSE: July 2027

- I am “**Academic Tutor**” of the following PhD students from the UAB Campus: Tan Zhengwei, Aleksandra Bartkowska, Èric Bach, Sofia Martins, Linda Medondijo, Josef Svetlik, Jia Jiahui, Tan Huan, Andrés Gómez, Ivan Fernández, Nils Wittemeier, Christina Stefani, Christian Schäfer, Noemí Contreras, Pablo Vales, José Manuel de la Cruz, Victor Fuentes, etc.

Final Degree/Master Theses Supervised

TITLE: Síntesi i caracterització de nanopartícules de níquel
MASTER STUDENT: Bernat Faura
UNIVERSITY: Universitat Autònoma de Barcelona
FACULTY/SCHOOL: Engineering Technical School (ETSE)
DATE: 21/02/2007 **MARK:** Excellent

TITLE: Metal(Co)-ceramic nanocomposites: synthesis and characterization
MASTER STUDENT: Enric Menéndez
UNIVERSITY: Universitat Autònoma de Barcelona
FACULTY/SCHOOL: Sciences
DATE: 21/03/2007 **MARK:** Excellent

TITLE: Characterization of $\text{Ti}_{67.79}\text{Fe}_{28.36}\text{Sn}_{3.85}$ nanocomposite rods: Influence of cooling rate gradient and thermal stability on microstructure and mechanical properties
MASTER STUDENT: Nele van Steenberge
UNIVERSITY: Universitat Autònoma de Barcelona
FACULTY/SCHOOL: Sciences
DATE: 21/03/2007 **MARK:** Excellent

TITLE: Correlation between the structure and mechanical properties of severely-deformed $\text{Ti}_{60}\text{Cu}_{14}\text{Ni}_{12}\text{Sn}_6\text{Nb}_{10}$ nanocomposite alloys
MASTER STUDENT: Jordina Fornell
UNIVERSITY: Universitat Autònoma de Barcelona
FACULTY/SCHOOL: Sciences
DATE: 15/07/2008 **MARK:** Excellent

TITLE: Nanocrystalline electrodeposited Cu-Ni films with enhanced mechanical properties and tunable magnetic behaviour
MASTER STUDENT: Aïda Varea
UNIVERSITY: Universidad Autónoma de Barcelona
FACULTY/SCHOOL: Física
DATE: 21/07/2010 **MARK:** Excelente

TITLE: Estudi de les propietats mecàniques i magnètiques de capes de CoNiRe obtingudes electroquímicament
MASTER STUDENT: Claudi Ruiz
UNIVERSITY: Universidad Autónoma de Barcelona
FACULTY/SCHOOL: Sciences
DATE: 09/07/2012 **MARK:** Excelente

TITLE: *Voltage control of magnetism in nanoporous cobalt oxide thin films*
MASTER STUDENT: Pau Mercier
UNIVERSITY: Universidad Autónoma de Barcelona
FACULTY/SCHOOL: Sciences
DATE: 01/07/2019 **MARK:** Excelente

PhD/Master Courses Imparted

- During the period 2009-2011 I have **COORDINATED THE OFFICIAL MASTER IN MATERIALS SCIENCE AND TECHNOLOGY (CITEM) at UAB.**
- During the period 2011-2014 I was the **COORDINATOR OF THE DOCTORATE PROGRAMME IN MATERIALS SCIENCE AT UAB.**
- From 2013 onwards, member of the **Coordination Commission of the Industrial Doctorate Programme** entitled “Materials Science, Nanotechnology and Industrial Processes”.

Doctorate Programme: Materials Science
Course Title: Experimental Techniques in Materials Science
Academic Year 2004-2005
Hours: 10
Institution: Universitat Autònoma de Barcelona

Doctorate Programme: Physics
Course Title: New Magnetic Materials
Academic Year 2004-2005
Hours: 15
Institution: Universitat Autònoma de Barcelona

Doctorate Programme: Physics
Course Title: Nanostructured Materials
Academic Year 2004-2005
Hours: 15
Institution: Universitat Autònoma de Barcelona

Doctorate Programme: Physics
Course Title: New Magnetic Materials
Academic Year 2005-2006
Hours: 15
Institution: Universitat Autònoma de Barcelona

Doctorate Programme: Physics
Course Title: New Magnetic Materials
Academic Year 2006-2007
Hours: 30
Institution: Universitat Autònoma de Barcelona

Master Programme: Master in Materials Science and Technology
Course Title: Functional Materials
Curs acadèmic: 2007-2008
Hours: 7.5
Institution: Universitat Autònoma de Barcelona

Master Programme: Master in Materials Science and Technology – Master in Advanced Physics
Course Title: Materials at the nanometer scale
Academic Year: 2007-2008

Hours: 18.75
Institution: Universitat Autònoma de Barcelona

Master Programme: Master in Materials Science and Technology
Course Title: Functional Materials
Curs acadèmic: 2008-2009
Hours: 7.5
Institution: Universitat Autònoma de Barcelona

Master Programme: Master in Nanotechnology and Materials Science
Course Title: Materials at the nanometer scale
Academic Year: 2010-2014
Hours: 18.75
Institution: Universitat Autònoma de Barcelona

Master Programme: Master in Nanotechnology and Materials Science
Courses Title: Nanophysics/ Functional Materials
Academic Year: 2010-2025
Hours: 12
Institution: Universitat Autònoma de Barcelona

Other Courses Imparted

BsC Programme: Physics
Course Title: Physics I
Academic Year 1998-1999
Hours: 15
Institution: Universitat Autònoma de Barcelona

BsC Programme: Physics
Course Title: Experimental Techniques in Physics
Academic Year 1998-1999
Hours: 19
Institution: Universitat Autònoma de Barcelona

BsC Programme: Physics
Course Title: Experimental Techniques in Physics
Academic Year 2000-2001
Hours: 30
Institution: Universitat Autònoma de Barcelona

BsC Programme: Physics
Course Title: Introduction to Materials Science
Academic Year 2001-2002
Hours: 15
Institution: Universitat Autònoma de Barcelona

BsC Programme: Physics
Course Title: Physics I
Academic Year 2001-2002
Hours: 15
Institution: Universitat Autònoma de Barcelona

BsC Programme: Materials Science Engineering
Course Title: Mechanical Properties of Materials
Academic Year 2001-2002
Hours: 15
Institution: Universitat Autònoma de Barcelona

BsC Programme: Physics
Course Title: Introduction to Materials Science
Academic Year 2004-2005
Hours: 25
Institution: Universitat Autònoma de Barcelona

BsC Programme: Materials Science Engineering
Course Title: Functional Materials I
Academic Year 2005-2006
Hours: 22.5
Institution: Universitat Autònoma de Barcelona

BsC Programme: Materials Science Engineering

Course Title: Functional Materials I

Academic Year 2006-2007

Hours: 22.5

Institution: Universitat Autònoma de Barcelona

BsC Programme: Materials Science Engineering

Course Title: Functional Materials I

Academic Year 2007-2008

Hours: 22.5

Institution: Universitat Autònoma de Barcelona

BsC Programme: Materials Science Engineering

Course Title: Functional Materials I

Academic Year 2009-2012

Hours: 22.5/year

Institution: Universitat Autònoma de Barcelona

Specialized Courses Undertaken

June 2000: Participation in the course “Magnetic Storage Systems beyond 2000”, in Rhodes, Greece, financed by NATO and organized by Prof. G. C. Hadjipanayis.

October/November 2001: Attendance to the “Curso Interdisciplinario en Nanociencia i Nanotecnología”, Barcelona.

January 2002: Attendance to the course “Iniciación al Análisis Cuantitativo y Estadístico en los Estudios Morfológicos Comparativos”, Servicio de Microscopía (UAB and REGO&CIA S.A.), Barcelona.

March/April 2003: Attendance to the course “Higher European Research Course for Users of Large Experimental Systems”, HERCULES 2003, Grenoble, France.

April 2005: Participation at the Innovative Teaching Promotion entitled “Saturdays of Physics”, at the Universitat Autònoma de Barcelona.

18/07/2008: Participation in several activities at the Euroscience Open Forum ESOF 2008, a forum for leading scientists, young researchers, policy makers, business people and journalists.

October 2008: Participation at: "Writing a Successful ERC Starting Grant" workshop.

July 2015: Training Course on Starting Grants 2015 Interview given to the successful candidates from this Call (AGAUR).

Stays in Internationally Recognized Centers

KEY: D=Ph.D student, P=postdoctoral. G= guest, S=staff, O=others (specify)

CENTRE: Grenoble High Field Laboratory (CNRS/Max Planck)
PLACE: Grenoble **COUNTRY:** France
YEAR: 2000 **LENGTH:** 3 months
TOPIC: Study of the ferromagnetic-antiferromagnetic coupling with a hard ferroamagnet
KEY: D

CENTRE: Grenoble High Field Laboratory (CNRS/Max Planck)
PLACE: Grenoble **COUNTRY:** France
YEAR: 2001 **LENGTH:** 1.5 months
TOPIC: Study of the ferromagnetic-antiferromagnetic coupling with a hard ferroamagnet
KEY: D

CENTRE: Lujan Center (Los Alamos National Laboratory)
PLACE: Los Alamos **COUNTRY:** USA
YEAR: 2001 **LENGTH:** 3 months
TOPIC: Fabrication by sputtering and characterization of magnetic multilayers
KEY: D

CENTRE: Institute of Physics, Polish Academy of Sciences,
PLACE: Varsovia **COUNTRY:** Poland
YEAR: 2002 **LENGTH:** 1.5 months
TOPIC: NMR studies of ball-milled cobalt
KEY: D

CENTRE: LPMC (Pulsed Magnetic Fields Laboratory)
PLACE: Toulouse **COUNTRY:** France
YEAR: 2002 **LENGTH:** 1 month
TOPIC: Influence of high magnetic field on the ferromagnetic-antiferromagnetic coupling
KEY: D

CENTRE: Rheinisch-Westfälische Technische Hochschule RWTH
PLACE: Aachen **COUNTRY:** Germany
YEAR: 2003 **LENGTH:** 1 month
TOPIC: Preparation and characterization of ferromagnetic-antiferromagnetic nanostructures
KEY: P

CENTRE: European Synchrotron Radiation Facility (ESRF)
PLACE: Grenoble **COUNTRY:** France
YEAR: 2003 **LENGTH:** 1 week
TOPIC: XMCD studies of FeAl under high pressure
KEY: P, G

CENTRE: Laboratorio SPINTEC (Commissionat à l'énergie atomique)
PLACE: Grenoble **COUNTRY:** France
YEAR: 2002-2004 **LENGTH:** 2 years
TOPIC: Studies of perpendicular Exchange bias with applications in spin valves
KEY: P, S

CENTRE: Laboratorio de Física de Superficies (Universidad Autónoma de Madrid)
PLACE: Madrid **COUNTRY:** Spain
YEAR: 2004 **LENGTH:** 3 weeks
TOPIC: Studies of the dynamic properties of ferromagnetic-antiferromagnetic systems
KEY: G

CENTRE: Argonne Nacional Laboratory
PLACE: Argonne **COUNTRY:** USA
YEAR: 2004-2007 **LENGTH:** 5 months (several stays)
TOPIC: Studies of magnetic vortices coupled with an antiferromagnet
KEY: P, G

CENTRE: Institut Laue Langevin (ILL)
PLACE: Grenoble **COUNTRY:** France
YEAR: 2005 **LENGTH:** 1 week
TOPIC: Diffraction studies of ϵ -Fe₂O₃ nanoparticles
KEY: P, G

CENTRE: Sincrotrone Elettra
PLACE: Trieste **COUNTRY:** Italy
YEAR: 2005 **LENGTH:** 1 week
TOPIC: Observation of antiferromagnetic domains by photoemission electron microscopy (PEEM) in patterned ferromagnetic-antiferromagnetic dots
KEY: P, G

CENTRE: SPINTEC Laboratory (Commissionat à l'énergie atomique)
PLACE: Grenoble **COUNTRY:** France
YEAR: 2005-2008 **LENGTH:** 3 months (several stays)
TOPIC: Fabrication and characterization of magnetic thin films

KEY: G

CENTRE: University of California-Davis

PLACE: Davis **COUNTRY:** USA

YEAR: 2006 **LENGTH:** 3 weeks

TOPIC: Magnetic measurements byFORC (First-order magnetization curves) of exchange bias systems

KEY: G

CENTRE: Forschungszentrum Rossendorf Institut fuer Ionenstrahlphysik und Materialforschung Abteilung Nanofunktionsschichten

PLACE: Dresden **COUNTRY:** Germany

YEAR: 2006-2007 **LENGTH:** 1 month (2 stays)

TOPIC: Influence of irradiation on magnetic systems

KEY: P, G

CENTRE: Institute Laue Langevin (ILL)

PLACE: Grenoble **COUNTRY:** France

YEAR: 2007 **LENGTH:** 2 weeks

TOPIC: Neutron diffraction experiments of MnO nanoparticles, to investigate both crystallographic and magnetic structures of these particles.

KEY: P, G

CENTRE: American Center for Physics (ACP)

PLACE: Maryland (Washington) **COUNTRY:** USA

YEAR: 2007 **LENGTH:** 2 weeks

TOPIC: Organization of the 52nd MMM conference and several scientific meetings

KEY: G

CENTRE: University of Paris

PLACE: Paris **COUNTRY:** France

YEAR: 2007 **LENGTH:** 2 weeks

TOPIC: Collaborative action in the study of metallic glasses

KEY: G

CENTRE: Berlin Neutron Scattering Center

PLACE: Berlin **COUNTRY:** Germany

YEAR: 2008 **LENGTH:** 1 week

TOPIC: Magnetic and structural measurements on core-shell nanoparticles

KEY: P, G

CENTRE: Institute Laue Langevin (ILL)

PLACE: Grenoble **COUNTRY:** France

YEAR: 2008 **LENGTH:** 1 week

TOPIC: Neutron diffraction on onion-like nanoparticles

KEY: P, G

CENTRE: The Swiss Light Source synchrotron - Paul Scherrer Institute
PLACE: Villingen **COUNTRY:** Switzerland
YEAR: 2008 **LENGTH:** 1.5 weeks
TOPIC: Dichroism measurements on magnetic nanoparticles
KEY: P, G

CENTRE: Xi'an (Center of Research)
PLACE: Xi'an **COUNTRY:** China
YEAR: 2008 **LENGTH:** 2 weeks
TOPIC: Participation in a collaborative meeting on the study of metallic glasses
KEY: G

CENTRE: Sao Carlos Universidad Federal
PLACE: Sao Carlos **COUNTRY:** Brazil
YEAR: 2008 **LENGTH:** 1 month
TOPIC: Thermal and mechanical measurements of bulk metallic glasses
KEY: G

CENTRE: Diamond Light Source synchrotron
PLACE: Didcot **COUNTRY:** United Kingdom
YEAR: 2008 **LENGTH:** 1.5 weeks
TOPIC: Observation of antiferromagnetic domains by photoemission electron microscopy (PEEM) in patterned ferromagnetic-antiferromagnetic dots
KEY: P, G

CENTRE: Argonne National Laboratory (Advanced Photon Source)
PLACE: Argonne **COUNTRY:** USA
YEAR: 2009 **LENGTH:** 2 setmanes
TOPIC: Experiment at the APS-ANL (magnetic dichroism using synchrotron radiation)
KEY: P

CENTRE: Helmholtz-Zentrum Berlin für Materialien und Energie GmbH
PLACE: Berlin **COUNTRY:** Alemnya
YEAR: 2009 **LENGTH:** 1 setmana
TOPIC: Synchrotron experiment on magnetic nanoparticles
KEY: P

CENTRE: ILL Grenoble, France
PLACE: Grenoble **COUNTRY:** France
YEAR: 2011 **LENGTH:** 1 setmana
TOPIC: Experiment of neutron diffraction at the Insitute Laue-Langevin (ILL, Grenoble), to investigate mesoporous materials.
KEY: P

Master/PhD Thesis Juries

20/10/2005: Member of the Jury Committee of the PhD Thesis entitled: "Effets de taille finie sur les couplages magnétostatiques et l'anisotropie d'échange dans le domaine de l'enregistrement magnétique" by Vincent Baltz (SPINTEC, Grenoble, France).

14/03/2006: Member of the jury of the Master Thesis entitled: "Characterization of ZrCuAlNi and TiCuNiSnTa alloys. Influence of different processing routes on their properties" by Azat Gimazov (UAB, Bellaterra, Spain).

04/02/2008: Member of the Jury Committee of the Master Thesis entitled "Síntesis y caracterización de propiedades físicas de películas delgadas de LaSrMnO crecidas por depósito de soluciones químicas" by César Moreno (Institute of Materials Science ICMAB, Bellaterra, Spain).

10/11/2008: Member of the jury Master Thesis entitled "Autoensamblaje dirigido de nanoestructuras de CeGdO crecidas por vía química sobre sustratos nanoindentados" by Jone Zabaleta Llorens (Institute of Materials Science ICMAB, Bellaterra, Spain).

21/07/2010: Member of the jury Master Thesis entitled: "Interface Phenomena in manganite thin films" by David Pesquera (UAB, Bellaterra, Spain).

18/07/2011: Member of the jury Master Thesis entitled: "Estudi de l'orientació cristal·logràfica de materials metàl·lics mitjançant EBSD" by Marcos Rosado (UAB, Bellaterra, Spain).

19/09/2011: Member of the jury Master Thesis entitled: "Transport properties across $\text{LaAlO}_3/\text{La}_{2/3}\text{Sr}_{1/3}\text{MnO}_3$ (LAO/LSMO) interfaces" by Regina Galceran (UAB, Bellaterra, Spain).

31/05/2012: Member of the Jury of the PhD Thesis entitled "Synthesis of magnetic nanoparticles and strategies towards magneto-photonic materials" by Oana Pascu, at ICMAB (Bellaterra, Spain).

06/06/2013: Member of the Jury of the PhD Thesis entitled "Materials and Fabrication Methods for Magnetic Intraocular Microrobots" by Kartik M. Sivaraman, at ETH-Zürich (Zürich, Switzerland).

07/10/2015: Member of the Jury of the PhD Thesis of Chaoren Liu, at UPC. Other jury members were: J.Ll. Tamarit from UPC and J. Qiao from Université de Lyon (France).

26/09/2016: Member of the Jury of the PhD Thesis entitled "Kinetic spraying deposition of metallic glasses" by John Dairo Henao Penenrey. Other jury members were: José Ignacio Peña, María Sarret, Helene Ageorge, Javier S. Blázquez Gámez.

02/12/2016: Member of the Jury of the PhD Thesis entitled "Magnetization processes of magnetic modulated nanowires" by Ester Palmero (Qualification: Sobresaliente). Other Jury members: Ricardo Ibarra, María Pilar Prieto, David Navas, Manuel de la Prida.

23/01/2018: Member of the Jury of the PhD Thesis entitled "Micro-mechanics of 3D architected metals synthesized by electrodeposition" by Maxime Mieszala at EPFL, Switzerland.

23/11/2018: Member of the Jury of the PhD Thesis entitled "Impact hazard associated with large meteorites from disrupted asteroids and comets", by Manuel Moreno Ibáñez, at Institute of Space Sciences, Spain.

12/04/2019: Member of the Jury of the PhD Thesis entitled "Low dimensional dense and nanostructured Fe-based alloys for smart materials" by Matteo Cialone, at University of Torino, Italy.

20/01/2022: Member of the Jury of the PhD Thesis entitled "New insights into Cr electrodeposits obtained from Cr(III)-based electrolytes: effect of the chemistry and semiconducting properties of their oxide films on the corrosion behavior" by Jonathan Leon, at UAB, Spain.

05/09/2022: Member of the Jury of the PhD Thesis entitled "Multi-scale and multi-dimensional composite magnetoelectric multiferroics" by Donghoon Kim, at ETH Zurich, Switzerland.

25/11/2022: Member of the Jury of the PhD Thesis entitled "Photoresistance and electroresistance in ferroelectric tunnel junctions based on BaTiO₃ and Hf_{0.5}Zr_{0.5}O₂" by Xiao Long, at ICMA, Spain.

16/12/2022: Member of the Jury of the PhD Thesis entitled "Modeling the interaction of ferromagnetic skyrmionic structures with material defects and superconductors" by Leonardo González, at UAB, Spain.

22/03/2023: Member of the Jury of the PhD Thesis entitled "Detailed temperature and angular investigation on magnetic properties of model transition metal oxides" by Jose Manuel Diez Toledano, at Universitat Autònoma de Madrid, Spain.

31/03/2023: Member of the Jury of the PhD Thesis entitled “Modelling Nanomagnetic Systems: Towards the Skyrmionic Bit” by Josep Castell, at Universitat Autònoma de Barcelona, Spain.

17/04/2023: Member of the Jury of the PhD Thesis entitled “The Versatility of Machine Learning Techniques in Materials Science: A Multiscale Study” by Udaykumar Gajera, at University of Torino, Italy.

02/06/2023: Member of the Jury of the PhD Thesis entitled “Solid-state lithium magnetoionics for voltage control of magnetic phenomena” by Maria Ameziane, at Aalto University, Finland.

Conferences/Workshops Organization

01/06/2007: Local committee member of the: Summer School on Women in Nano: Career development and research trends (Comaruga, Spain).

05/11/2007: Program Committee Member of the 52nd Magnetism and Magnetic Materials Conference (Tampa, Florida, USA).

06/05/2008: Chairman of the "Exchange Bias" session at Intermag 2008 (Madrid, Spain).

10/11/2008: Program committee member of the "Segundo Workshop Español de Nanolitografía" (Barcelona, Spain).

17/06/2009: Co-chairman of the “International Workshop on the Structural and Mechanical Properties of Metallic Glasses” (IWMG09) (Castelldefels, Spain). Webpage: <http://mie.esab.upc.es/iwmg09/index.php>

06/09/2009: *Chairman* of the session B13 “Metallic Glasses” at Euromat 2009 (Glasgow, UK).

06/07/2010: Co-organizer of DIVERSITY - ISMANAM 2010 *Satellite Meeting: Some views on the situation of women in materials research institutions* (Zürich, Switzerland).

07/07/2010: Chairman of the session “Bulk Metallic Glass Applications” at 17th International Symposium on metastable, amorphous and nanostructured materials (Zürich, Switzerland).

17/11/2010: Chairman of the session "Soft Magnets" at the 55th Conference on Magnetism and Magnetic Materials (Atlanta, USA).

27/06/2011: Member of the *National Advisory Committee* of the congress ISMANAM 2011 (Gijón, Spain).

28/06/2011: Organizer of the “Diversity Meeting” 2011 (Gijón, Spain).

05/09/2011: *Chairman* of “*Bulk Metallic Glasses*” at RQ14 (Salvador de Bahia, Brazil).

10/09/2011: *Chairman* at the *5th International Workshop on Amorphous and Nanostructured Magnetic Materials* - ANMM 2011 (Iasi, Romania).

25/10/2011: *Chairman* on the “electron microscopy and related techniques” at the 1st BioTiNet Workshop “Advanced Methods for Materials Characterization” (Ljubljana, Slovenia).

03/06/2012: Co-organizer of the Summer School “Titanium in medicine” (Caldes d’Estrach, Spain).

24/10/2012: *Scientific Committee member* of the “XXVIII Trobades Científiques de la Mediterrània” (Maó, Spain).

21/07/2013: Chair/Organizer of the Workshop “Electrodeposited Composite Materials for Advanced Technologies” at the 21st Annual International Conference on Composites/nano engineering (Tenerife, Spain)

04/11/2013: *Program Committee Member* and Chair of the Session “Ultra-Thin Film Magnetism II” of the 58th MMM (2013) Conference (Denver, USA).

01/07/2013: *Chairman* of the Session entitled “Nanostructured Materials” of the Conference ISMANAM 2013.

25/01/2014: *Program Committee Member* of the InterMag 2014 Conference (Dresden, Germany).

06/03/2015: Organization of the SELECTA-ETN Kick-off Meeting (Chairman).

15/05/2015: *Scientific Committee Member* of the “2015 E-MRS SPRING MEETING” (Workshop entitled “Electrochemical processes for nanomaterials and their properties”)

17/06/2015: *Chairman* of a Session at the CC3DMR 2015 Conference (South Korea).

01/07/2015: *Program Committee Member* of the “International Conference of Magnetism” (ICM 2015), subtopic “Sub-Topic “Magnetic Thin Films and Multilayers.

10/07/2015: Local Committee Member of the International Conference of Magnetism 2015.

15/07/2015: Chairman of the “Magnetic Materials” Session at the ISMANAM 2015 Conference.

03/09/2015: Chairman of one session at the ENM Conference, Spain.

22/09/2015: Chairman of the Euromat 2015- Symposium B1.3: Metallic Glasses, Rapid Solidification, Nanocrystallization.

21/02/2016: Member of the International Program Committee for the "EMN Meeting on Metallic Glasses", Kuala Lumpur, Malaysia (September 12-14, 2016).

20/05/2016: Chairman at the EMN Meeting on 2D Materials (San Sebastian)

05/07/2016: Advisory/organising committee of the Asian Advanced Materials Congress (Singapore, 11-16 March 2017)

02/11/2016: Chairman of the Session "Nanoparticles and Nanowires" at the MMM Conference

04/11/2016: FIMPART Executive Committee (coordinator of the International Symposium on Metallic Glasses)

12/07/2017: Chairman of a session at the FIMPART Conference (Session on Magnetic Materials)

22/08/2017: Member of organising committee of Advanced Materials Congress 2017-2018 (22 - 24 August 2017, Stockholm, Sweden)

25/10/2017: Co-organizer of the “e-minds” COST Meeting (Barcelona, 25-29 October, 2017). Chairman of the STSM presentations.

07/01/2018: Chairman at the SELECTA Winter School (Cambridge, 07-12 January, 2018).

06/02/2018: Chairman of the session “Materials for Energy” at the IEEE-AIM 2018 Conference (4-7 February 2018, La Thuile, Italy)

28/05/2018: Chairman of the “International Workshop on Magneto-Electric Actuation, Magneto-ionics and Related Phenomena in High-Surface Area Materials” (IW-MAG'18) (28-30 June 2018, Gavà, Spain).

07/06/2018: Organizing Committee Member for the upcoming “International Conference on Materials Research & Development” held during October 29-30, 2018 in Prague, Czech Republic (29-30 October 2018, Prague, Czech Republic).

27/06/2018: 32nd International Conference on Surface Modification Technologies (SMT32 + EAST FORUM 2018) (27-30 June 2018, San Sebastian, Spain).

20/09/2018: Chairman of the Session X: Basic and Functional Properties of Symposium F of the E-MRS Conference 2018 Fall Meeting (17-20 September 2018, Warsaw, Poland).

27/09/2018: Chairman of the Hall 1 Session of the MSCMP (9th International Conference on Materials Science and Condensed Matter Physics) (24-27 September 2018, Chisinau, Moldova).

27/10/2018: Organizing Committee of the '4th International Conference on Crystallography & Novel Materials' (19-20 November 2018, Buchares, Romania).

14/07/2019: Chair of the Session D5 - "Nanoporous and high-entropy materials" at the ISMANAM 2019 conference (08-12 July 2019, Chennai, India)

14/05/2019: International Symposium/Topic Coordinator (Metallic Glasses) at FIMPART 2019 (15-19 December 2019, Ahmedabad, Gujarat, India)

18/10/2019: Chair of "Session 5: Magnetic and Multiferroic Materials" at the International Congress on Advanced Materials Sciences and Engineering (AMSE-Vienna) (online)

23/10/2019: Honorable Committee Member for Euro Materials 2020 (online)

06/01/2020: Organizer of the WE-Heraeus-Seminar: "Energy Efficient Magnetoelectric Materials by Ionic Approaches: Fundamentals, Challenges and Perspectives" (26-29 January, Bad Honnef, Germany).

20/02/2020: Scientific and Programme Committee member of the "7th International Congress "Engineering, Environment and Materials in Processing Industry" (17-19 March 2021, Jahorina, Bosnia and Herzegovina).

26/10/2020: Organizer of Intermag 2021 (Best Student Presentation Award Chair) (26-30 April 2021, Grenoble, France).

26/09/2020: Organizer of the First Bioremedia Workshop on biomaterials (European Training Network) (1-2 October 2021, online event).

20/03/2021: Co-organizer of the "Materials Challenges for Memory" conference (American Institute of Physics) (12-14 April 2021, online, UK).

05/01/2021: Co-organizer of the 2nd Advanced Materials Science World Congress 2021 (Berlin, Germany)

22/01/2021: Organizer of the 2nd Advanced Materials Science World Congress 2021 (21-22 March 2021, London, UK).

08/04/2022: Organizing committee member for 5th International Conference on Materials Research and Nanotechnology (ICMRN 2022) (7-8 March 2022).

05/01/2022: Program Co-chair of the MMM 2022 (31 October – 4 November 2022, Minneapolis, USA).

12/12/2022: Scientific Committee Member of the 8th International Congress "Engineering, Environment and Materials in Process Industry, Jahorina, Bosnia and Herzegovina

09/02/2023: Program Committee member of the MMM 2023 (30 October – 3 November 2023, Dallas, USA).

01/07/2023: Chair for the Topic "Functional Hybrid nanostructures and arrays" at ICM 2024 (Bologne, Italy).

30/06/2024: Member of Programme Committee and Session Chair at ICM 2024 (Bologne, Italy).

30/09/2025: Chair of the "Molecular magnetism and ionic spintronics" session at JEMS 2025 (24 – 29 August 2025, Frankfurt, Germany).

Editorial Boards

- Since 2007: Member of the Editorial Board of "The Open Materials Science Journal".
- Since 2013: Member of the Editorial Board of "Advances in Alloys and Compounds" (Columbia International Publishing).
- 2013: Guest Editor of the Special Issue entitled "Titanium Materials for Biomedical Application 2013", of the journal "Materials".
- 2014: Guest Editor of the Special Issue entitled "Ordered Mesoporous Materials" of the journal "Nanomaterials".
- 2014: Editorial Board member of the journal "3D Research" (Springer).
- 2014: Co-editor of the Special Issue "Metallic Glasses" in the journal "Metals".
- 2014: Member of the Editorial Board of "Materials" and "Metals" (MDPI).
- 2015: Member of the Editorial Board of "Materials Research".
- 2015: Associate Editor of "Frontiers-Mechanics of Materials".
- 2015: Guest Editor of Special Issue in Nanomaterials, entitled "Frontiers in Mesoporous Nanomaterials"

- 2015: Co-editor of the book entitled “Commercialization of Nanotechnologies - A Case Study Approach”, Springer (<http://www.wimb.fink.rs/books.html>).
- 2015: Co-editor of the book entitled “Advances in Application of Industrial Biomaterials”, Springer (<http://www.wimb.fink.rs/books.html>).
- 2015: Member of the Editorial Board of "Nanomaterials".
- 2016: Guest Editor of the special issue entitled "Thin Films and Patterned Structures by Electrochemical Methods" in the journal Coatings (MDPI).
- 2016: Editorial Board member of the journal "Materials Science Research" from the Institute of Science Publishing (London, UK)
- 2016: Editorial Board of Global Journal of Science Frontier Research (USA)
- 2016: Guest Editor of the special issue entitled "Multifunctional Metallic Nanomaterials" in the journal Nanomaterials (MDPI)
- 2016: Editorial Board Member of the journal "Research & Reports on Metals", by SciTechnol (Los Angeles, USA)
- 2017: Guest Editor of the special issue entitled “Permanent biomaterials” in the journal “Applied Sciences” (MDPI).
- 2019-2023: Editor-in-Chief of Section “Nanocomposite Materials” in “Nanomaterials” (MDPI).
- 2020: Associate Editor of APL Materials (AIP).
- 2022: Editorial Board member of APL Energy (AIP).
- Reviewer for the following journals: Physical Review Letters, Advanced Materials, Applied Physics Letters, Physical Review B, Journal of Applied Physics, Journal of Magnetism and Magnetic Materials, Journal of Alloys and Compounds, Scripta Materialia, Acta Materialia, Thermochemica Acta, Nanotechnology, Chemistry of Materials, Journal of Materials Research, Journal of Physics D: Applied Physics, Surface Coatings and Technology, Nature Communications, ACS Advances, New Journal of Chemistry, Nature Materials and others.

Member of Evaluation Commissions

- 2010: Evaluator of Fellowships JAE-Doc PhD at the Institut de Ciència de Materials de Barcelona (ICMAB-CSIC).
- 2011: Evaluator of ANEP, Spain. Evaluator of candidates for Juan de la Cierva and Ramon i Cajal Research Contracts, in the area of Materials Science.
- 2012-2013: Evaluator of the AGAUR- Catalan Agency for Management of University and Research Grants.
- 2014: Evaluator of the College of Reviewers for the Canada Research Chairs Program.
- 2015: Evaluator of Advanced Grants proposals from the European Research Council.

- 2015: External Evaluator for the ANEP (Spain) (Excellence and Research Challenges Calls).
- 2015: Evaluator of COST Actions (European Cooperation in Science and Technology).
- 2015: Evaluator of projects for the Polish National Science Centre.
- 2015: Evaluator for the "Deutsche Forschungsgemeinschaft" (German Research Foundation, DFG)
- 2016: Member of the "Academic Personnel Commission" at the UAB Rectorate, representing the UAB Researchers community - (UAB Government Council)
- 2016: Member of the Evaluation Panel from the Science Foundation Ireland.
- 2016: Member of the Evaluation Panel for AGAUR (Calls: "Llabor", "Producte", "Beatriu de Pinós", etc.).
- 2017: External Evaluator for the National Research Foundation – Singapore.
- 2017: Evaluator for professorship promotion for the University of Texas.
- 2019: Evaluator of Grants from the European Research Council.
- 2020-2021: Evaluator of Marie Skłodowska-Curie postdoctoral Fellowships.
- 2022, 2024: Panel Member for the European Research Council (PE11 CoG).

Outreach/Tech Expo Activities

05/03/2005: Interview at COPE Ràdio Barcelona – talk on nanomagnetism with emphasis on the magnetic vortices effect.

26/06/2005: Divulgative talk entitled "Nanomagnetic Materiales: from permanent magnets to innovative storage devices" at the Museum of Science and Technology of Catalonia (Terrassa).

20/03/2006: Interview at LA MALLA (Xarxa de Televisions Locals de Catalunya).

20/06/2006: Interview at "Matins.COM" at COM Ràdio - to talk about magnetic lithography.

2006-2008: Press release of our work on nanomagnetism in several webpages and virtual journals, such as the Virtual Journal of Nanotechnology, Nanotimes, etc.

04/2009-03/2011: Participation in the NANOLITO network.

02/2014-03/2014: Showcase at the National TV3 (Telenotícies Migdia).

27/02/2015: Interview at “Els matins de TV3”.

01/04/2015: Video “Universidad Responde” (about nanomagnetism and devices).

01/09/2015: Video NEO (Research Showcase).

08/02/2016: Interview at “La Razón”.

14/06/2016: Plenary Talk at the Gordon Seminars/ The armourers and brasiers' Cambridge forum / University of Cambridge

04/10/2016: Interview at ABC about the Nobel Prize in Physics 2016.

16/10/2016: Interview at ABC about our group activities.

10/11/2016: Interview at RTVE radio (Radio Nacional de España)

19/01/2017: Talk at St. Cugat (Cosmos i Vida 2017): La física quàntica i l'estalvi energètic als ordinadors i les comunicacions.

27/01/2017: Seminar at University Paris Sud (Recent advances in the field of nanoporous magnetic materials).

28/01/2017: Highlight of the work on how to deviate meteorites with mechanical impacts (TVE-TV1 News, New Scientist, other press)

12/06/2017: Interview at Radio Vallromanes

17/07/2017: Interview at the radio "La Cope" (program "La tarde") to talk about energy efficiency in computers

27/12/2017 onwards: Participation at Divulcat.cat (Enciclopèdia Catalana)

18/01/2018: Talk entitled "La importància del magnetisme a l'univers: conceptes bàsics i aplicacions"

09/03/2018: ALBA Synchrotron Talk: On the importance of magnetism at the ‘universe-scale’ and on the Earth: from basic concepts to the state-of-the-art in magnetic computation

17/04/2018: Participation in “La Aventura del saber” (TVE).

26/11/2018: GEFES website (Spanish Physical Society). Highlight of our work "Inducción/supresión de ferromagnetismo mediante la aplicación de voltaje con electrolitos"

30/11/2018: UAB Divulga, highlight on our work "Magnetic switch, induction or suppression of ferromagnetism through electric voltage" (publication in *ACS Nano*).

25/04/2019: Talk on Quantum Physics and Magnetism, with focus on magnetic recording media, at Sant Cugat, as part of the Dissemination Project: "FRONTERES DEL CONEIXEMENT : DIVERSITAT I INTERRELACIONS DE LA CIÈNCIA" (AASCV'19).

21/05/2019: Pint of Science Festival, Sant Cugat, "Quantum is coming"

20/09/2019: News at 324 TV Channel highlighting our study on how to potentially deviate threatening asteroids using target impacts (in collaboration with Josep Trigo).

22/10/2019: Seminar focused on the impact of publishing in "Open Access" on the scientific research output.

15/01/2021: Video Capsule "Magneto lònica un impuls per l'estalvi energètic" (Amics UAB)

04/03/2022: Article highlighting our research in "Muy Interesante"

08/11/2022: Interview on Radio Sabadell & Radio Terrassa during the program "Connectats a la Xarxa" to talk about our recent work on new materials for neuromorphic computing

10/11/2022: Video "¿Dónde se utilizan los materiales magnéticos en la actualidad?", RTVE.

27/02/2023: Participation at Mobile World Congress 2023 (stand, exhibitor), Barcelona, Spain.

17/10/2023: Stand: Fira de la Innovació de la UAB : Neuromorphic materials based on magneto-ionics, Bellaterra, Spain.

31/10/2023: Online outreach on our work on "Wireless magneto-ionics" <https://www.uab.cat/web/newsroom/news-detail/first-ever-wireless-device-developed-to-make-magnetism-appear-in-non-magnetic-materials-1345830290613.html?detid=1345899126787>.

16/01/2025: Meet the Experts, MMM-Intermag 2025, New Orleans, USA.

23/02/2025: Interview at Diga-li Ciència (interview) RTVE-Radio 4, Barcelona, Spain.

23/02/2025: Online outreach. Discovery of "vortion" magnetic synaptic state (published by our group in Nature Communications) has been highlighted by several press media:

<https://www.uab.cat/web/sala-de-premsa/detall-noticia/creen-un-nou-estat-magnetic-el-vortio-que-imita-les-sinapsis-neuronals-1345829508832.html?detid=1345947272025>;
<https://www.3cat.cat/324/valles-occidental/>;
<https://www.muyinteresante.com/ciencia/evolucion-neuronas-artificiales-imitar-sinapsis-materiales-avanzados.html>; <https://interestingengineering.com/innovation/vortion-magnetic-state-memeory>;
<https://phys.org/nanotech-news/nano-physics/>;
<https://media24.fr/2025/03/05/une-percee-scientifique-le-vortion-un-nouvel-etat-magnetique-qui-imite-les-synapses-du-cerveau/>; etc.

04/03/2025: Participation at Mobile World Congress 2025 (stand, exhibitor), Barcelona, Spain.

Academic Societies

- Member of the ***Societat Catalana de Física*** (since 2000).
- Member of the ***Sociedad Española de Física*** (since 2004).
- ***Club Español de Magnetismo*** (since 2006)
- Member of the **American Nano Society** (since 2011).
- Member of the ***Sociedad Española de Materiales***, SOCIEMAT) (since 2015).
- Member of the ***Associació Astronòmica de St. Cugat/Valldoreix*** (since 2015).
- Member of the **Nanosmat Society** (since 2017).
- Member of the **American Physical Society** (since 2018).
- Member of the **European Magnetism Association** (since 2019).
- Member of **Technical Committee of the IEEE Magnetics Society** (since 2019).
- Member of the **American Ceramic Society** (since 2020).
- Member of the **Education Committee of the IEEE Magnetics Society** (since 2021).
- Member of **NeuromimeTICs**, a multidisciplinary research network promoting research to face societal challenges through deep learning applications (since 2020).
- Member of the **AdCom MMM** (American Institute of Physics (since 2021).
- Member of **Spin Factory** (since 2022).

Scientific Collaborations (Selected)

France

- Grenoble High Magnetic Field Laboratory (GHMFL), Dr. Chouteau
- Laboratoire Louis Neel, CNRS, Grenoble, Pr. D. Givord
- Laboratoire SPINTEC, CEA/CNRS, Grenoble, Dr. B. Dieny
- LPMC, UMR 5830 CNRS-INSU-UPS, Pulsed Magnetic Fields Laboratory, Toulouse; Dr. F. Bobo
- Several groups at the Institut Laue-Langevin and the E.S.R.F. (Grenoble).

USA

- Lujan Center, Los Alamos National Laboratory, New México, Dr. M. Fitzsimmons
- Argonne National Laboratory, Argonne, Dr. A. Hoffmann, Dr. A. Petford-Long
- University of Colorado Boulder, Dr. K. S. Buchanan
- University of California Davis, Davis, Prof. K. Liu
- NIST Center for Neutron Research, National Institute of Standards and Technology, Gaithersburg, Dr. J. Borchers
- Department of Chemical Engineering, Northeastern University, Boston, Prof. E. J. Podlaha-Murphy.

Poland

- Institute of Physics, Warsaw, Dr. E. Jedryka

Germany

- Rheinisch-Westfälische Technische Hochschule RWTH, Aachen; Pr. G. Guntherodt
- CAESAR/Ludwig-Erhard-Allee 2, 53175 Bonn, Pr. M. Giersig
- IFW, Dresden, Pr. J. Eckert
- Forschungszentrum Rossendorf Institut fuer Ionenstrahlphysik und Materialforschung Abteilung Nanofunktionsschichten, Dresden, Prof. J. Fassbender

United Kingdom

- Department of Materials Science, University of Cambridge, Cambridge, Prof. A. L. Greer

Switzerland

- Paul Scherrer Institute, Villigen, Prof. L. Heyderman
- Institute of Robotics and Intelligent Systems (IRIS) at ETH Zurich, Dr. S. Pané, Prof. B. Nelson.

Brazil

- Universidade de São Carlos, Prof. W. Botta

Colombia

- Departamento de Física, Universidad del Valle, Cali, Colombia, Dr. G.A. Pérez-Alcázar

Sweden

- Department of Materials Science and Engineering, Royal Institute of Technology, Stockholm, Prof. K. V. Rao
- Chalmers University of Technology, Dr. U. Klement.

Russia

- Institute for Metals Superplasticity Problems, Ufa, Prof. Zhilyaev
- St. Petersburg Nuclear Physics Institute, Gatchina, St. Petersburg, Prof. I. V. Golosovsky

China

- School of Materials Science & Engineering, Anhui University of Technology, Maanshan Anhui, Dr. W. H. Li

Lithuania

- Department of Physical-Chemistry, Vilnius University, Prof. H. Cesiulis.

Belgium

- Department MTM, Katholieke Universiteit Leuven, Prof. Celis and Dr. N. Tyntaru.

Italy

- INRIM, Dr. P. Tiberto.
- University of Torino, Dr. P. Rizzi.

Greece

- University of Ioannina, Dr. C. Lekka.

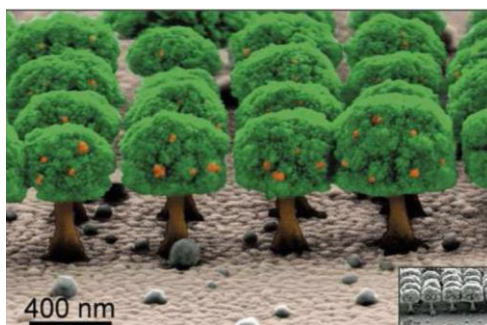
Spain

- Instituto de Ciencia de Materiales de Barcelona (ICMAB), Consejo Superior de Investigaciones Científicas, Dr. E. Molins, Prof. T. Puig, Prof. X. Obradors
- Laboratorio de Física de Superficies, Univesidad Autónoma de Madrid (UAM), Pr. R. Miranda

- Institut Català de Nanotecnologia (ICN-CIN2): Prof. J. Nogués, Prof. P. Gambardella, Prof. P. Ordejón.
 - Centre Nacional de Microelectrònica (CNM): Prof. J. Montserrat, Prof. E. Lora-Tamayo
 - Universidad de Oviedo. Prof. P. Gorria
 - Others
- Currently, I have **formal Collaboration Agreements** with **Gestamp-Linares**, the **Fábrica Nacional de Moneda y Timbre** and the **CIDETEC Center** in San Sebastián.

Prizes and Awards

- **“Premi Jordi Porta i Jué”** award from the *Societat Catalana de Física*, April 2001.
- **“Premio a investigadores noveles en el área de Física Experimental 2003”**, award from the *Real Sociedad Española de Física*.
- **Award to “Young Scientist”** at the International Symposium of Metastable and Mechanically Alloyed Materials (**ISMANAM 2005**), Paris.
- **Extraordinary Thesis Award** in the Materials Science program at Universitat Autònoma de Barcelona.
- Best **Poster Prize** at the III Joint European Magnetic Symposia (San Sebastián 2006).
- **“Excellence in Research Award”** by the Autonomous University of Barcelona (2008)
- Accreditation as **Profesor Lector (2003)**, **Research Accreditation (2006)** and **Advanced Research Accreditation (2009)** by the University Quality Agency (AQU) of the Generalitat de Catalunya.
- **Bronze Prize in NANOSMAT-2012 Young Scientist Lecture** Competition for: N. Tsyntsar, H. Cesiulis, E. Pellicer, J. Sort, J.P. Celis, Structural, magnetic and mechanical properties of electrodeposited Co-W thin films, NANOSMAT, Prague (Czech Republic), September 2012.
- **First Prize in the “Science as Art” Competition of the MRS Spring Meeting (2014)**, for the work “Nano-Orchard”, based on the electrodeposition of a nanoforest of CuNi alloy.



- **Science & Technology Prize**, awarded by the **Federation of European Materials Societies (FEMS)**, Warsaw, 2015.
- **First Prize poster Award at the 3rd Scientific Meeting 2017 BCN-b PhD students in Nanoscience** (poster of Cristina Navarro), Bellaterra, 2017.
- **Award to our PhD student Jin Zhang (The Schwäbisch Gmünd Prize for Young Scientists**, European Academy of Surface Technology, EAST). 7th April 2017
- **Extraordinary PhD award (UAB) for my PhD students Amadeu Concustell (2010), Jordina Fornell (2014), Aïda Varea (2015), Jin Zhang (2018), Irati Golvano (2019), Alberto Quintana (2020) and Evangelia Dislaki (2021).**
- **Poster Award to my PhD student, Cristina Navarro at the 2018 European School on Magnetism “Magnetism by light” (Krakow, September 2018).**
- **Second Prize and Public Prize to my PhD student, Cristina Navarro at the “Thesis in 4 minutes” contest at UAB (Bellaterra, May 2019).**
- **Elected Fellow of the Institute of Physics (IoP, UK, 2020).**
- **Received the Duran Farell Award for Technological Research (by UPC and Naturgy, 2020).**
- **Award to our PhD student Konrad Eiler (The Schwäbisch Gmünd Prize for Young Scientists**, European Academy of Surface Technology, EAST, February 2021).
- **Elected member of the Technical (2019) and Educational (2021) Committees of the IEEE Magnetics Society and AdCom Member of the MMM (American Institute of Physics, Jan 2022).**
- **Best poster award at the E-MRS Spring Meeting (2023).** Presenting Author: Paul Nizet.