Abridged CV Dr. Eva PELLICER VILÀ *December 2019*

Place and date of birth: Manresa, April 7, 1977
Nationality: Spanish
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Academic Degrees

2001-2005: PhD Thesis (*Excellent with Honors*), Materials Science and Technology program, *Universitat de Barcelona* (UB), Spain. Title: "Magnetic cobalt based layers obtained by electrodeposition". Catalan Government Pre-doctoral Grant.
2000-2001: Msc in Experimental Chemistry at UB.
1995-2000: Bsc in Chemistry at UB.

Professional Experience

2018-present: Associate Professor at the Physics Department of *Universitat Autònoma de Barcelona* (UAB). Coordinator of the PhD programme in Materials Science.
2013-2018: 'Ramón y Cajal' researcher at the Physics Department of *Universitat Autònoma de Barcelona* (UAB), Spain. Responsible for the Chemistry Section and Deputy Head of the 'Group of Smart Nanoengineered Materials, Nanomagnetism and Nanomechanics' (Gnm_3).

- Supervisor of 9 PhD Thesis (graded *Excellent with Honors*) and 12 Master's Thesis/Final Degree Project. Supervisor of other 3 ongoing PhD Thesis.

2008-2013: Post-doctoral researcher (UAB+Beatriu de Pinós grants) at the Physics Department of UAB.
2007-2008: Post-doctoral researcher at the Catalan Institute of Nanotechnology (Spain).
2005-2006: Post-doctoral researcher at Instituto Nacional de Electrónica (CNM-CSIC) and Electronics Department (UB).

Experimental Skills and Research Interests (keywords)

- Electrodeposition, electrocatalysis, nanomaterials, magnetic alloys, mesoporous materials, transition metal oxides, hybrid materials, nanocasting, micro/nanoelectromechanical systems, nanoindentation, diffraction, electron microscopy.

Publications & Citations

- **190 articles published in peer-reviewed journals)**, ***h*-index = 35**. Citations > **3500.**
- **10 selected publications (last 5 years):** Advanced Science 5 (2018) 1800499; ChemSusChem 11 (2018) 367-375; Applied Materials Today 12 (2018) 1-8; ACS Nano 12 (2018) 10291-10300; Adv, Funct. Mater. 27 (2017) 1701904; ACS Appl. Mater. Interfaces 8 (2016) 4109; Adv. Mater. Interfaces 3 (2016) 1600336; Nanoscale 8 (2016) 1219; J. Mater. Chem. A 3 (2015) 23670; J. Mater. Chem. C 2 (2014) 8259; Nanoscale 6 (2014) 12490.
- **3 patents**

R+D Projects

- Participation in >**25 national and international projects** and 2 private projects with a company.

- IP of the Spanish partner in the European Project mCBEEs "Advanced integrative solutions to Corrosion problems beyond micro–scale: towards long-term durability of miniaturized Biomedical, Electronic and Energy systems" (H2020-MSCA-ITN 2017 project no. 764977).
- Training Manager of the European Project SELECTA "Smart ELECTrodeposited Alloys for environmentally sustainable applications: from advanced protective coatings to micro/nano-robotic platforms" (H2020-MSCA-ITN-2014 no. 642642)
- Vice-chair of the Cost Action e-MINDS (MP1407) "Electrochemical processing methodologies and corrosion protection for device and systems miniaturization".
- Coordinator of TEMPUS project "Development of Sustainable Interrelations between Education, Research and Innovation at WBC Universities in Nanotechnologies and Advanced Materials where Innovation Means Business (WIMB) (543898-TEMPUS-1-2013-1-ES-TEMPUS-JPHES).

International Conferences

- **Invited/Plenary talks: 72**
- Total number of contributions to congresses (oral/poster): 243

International Prizes & Awards

- **Westinghouse Prize Award** (Sponsored by Riley Industries Ltd) to the best article published during 2005 in Trans. Inst. Met. Finish: E. Gómez, E. Pellicer*, E. Vallés. "Electrodeposition of cobalt based alloys for MEMS applications."*Trans. Inst. Met. Finish.* 83 (2005) 248. *Corresponding author. http://www.uk-finishing.org.uk/past_officers.htm#Westinghouse
- **«Materials Today Cover Competition 2010» award**, issue January-February 2011: M.A. Zeeshan, K. Shou, K.M. Sivaraman, T. Wuhrmann, S. Pané, E. Pellicer, B.J. Nelson. *Nanorobotic drug delivery: If I only had a heart…*
- **First place winner of 'Science As Art'** in the 2014 MRS Spring Meeting with the electron microscopy image 'NanoOrchard': https://www.mrs.org/spring-2014-science-as-art-winners/
- **Recipient of the 9th Edition of the National Programme L'Oréal-UNESCO for 'Women in Science' 2014.**
- **"International Rising Talents" Award in the 17th edition of the L'Oréal-UNESCO 'For Women in Science' 2015,** Project: **«***Advanced nanoporous materials for high-efficient hydrogen production***»**

Participation in Committees and Review Panels

- Section Editor of "Smart Composite Materials" in "Encyclopedia of Materials: Composites" (Elsevier)
- Guest Co-editor of special issues in *Nanomaterials* (MDPI) and *Phys. Status Solidi* (Wiley).
- Editorial Board member of Nanomaterials (MDPI) and 3D Research (Springer).
- Co-editor of several books in Springer (e.g. "Commercialization of Nanotechnologies—A Case Study Approach", "Advances in Applications of Industrial Biomaterials", etc.).
- Co-organizer of several symposia in international conferences.
- Reviewer of research projects for *ETH Zurich Research Commission*, *National Research Foundation of South-Africa (NRF)* and *Agencia Nacional de Promoción Científica y Tecnológica* of Argentina.

International Collaborations and Postdoctoral Stays Abroad

- Most relevant collaborations: ETH-Zürich, Switzerland (Prof. B.J. Nelson, Dr. S. Pané), Vilnius University (Prof. H. Cesiulis), Wigner Research Centre for Physics of the Hungarian Academy of Sciences (Prof. I. Bakonyi).
- Postdoctoral stays: (i) Instituttsektor/Jord og miljø/Bioforsk, Ås (Norway), September-October 2008, duration: 1 month, project: «New methods for detecting engineered nanoparticles in the environment»; (ii) Institute of Robotics and Intelligent Systems (IRIS, ETH –Zurich), MSRL (Prof. B. J. Nelson), Switzerland; Dates: June-July 2008, March-April 2010, October 2011; Duration: 2.5 months.