

Short Curriculum Vitae

Professor Luis M. Liz- Marzán

Education :

Bachelor in Chemistry at University of Santiago de Compostela (1988)

PhD in Chemistry at University of Universidad de Santiago de Compostela (1992)

Current Positions:

Ikerbasque Research Professor

Scientific Director of The Center for Cooperative Research in Biomaterials, CIC biomaGUNE

Donostia - San Sebastian, Spain

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Professor on leave, Department of Physical Chemistry, University of Vigo

Previous Positions:

- Adjunct Professor, King Saud University, Riyadh, Saudi Arabia 2014-2015
- Professor, Department of Physical Chemistry, University of Vigo, Spain 2006–2012
- Humboldt Research Fellow, Max-Planck-Institute of Colloids and Interfaces, Golm (Germany), Aug 2011
- Humboldt Research Fellow, University of Hamburg (Germany), Aug-Sep 2010
- Wilsmore Fellow, University of Melbourne (Australia), July 2010
- Visiting Professor, University of Michigan (Ann Arbor, USA), August 2008
- Visiting Professor, Tohoku University (Sendai, Japan), July – August 2005
- Titular Professor, University of Vigo, March 1997 – December 2005.
- Assistant Professor, University of Vigo, May 1995 – March 1997.
- Assistant Professor, University of Santiago de Compostela, January – May 1995.
- Associate Researcher, Utrecht University (The Netherlands), Feb 1993- Jan 1995.
- F.P.I. Fellow, University of Santiago de Compostela, 1989-1992.

Awards, Achievements:

- Author of >370 peer reviewed research papers and co-inventor of 8 patents.
- <http://www.researcherid.com/rid/B-8910-2011>
- Principal Investigator of >40 research grants and industry projects.
- >200 Invited talks at conferences; >150 seminars at universities and research institutions
- Supervisor of 23 PhD theses (+5 in progress) and 45 post-doctoral researchers
- >28,000 citations; h-index=87 (WOS); 85 ISI highly cited papers
- >50 cover articles in major journals.
- ISI Highly Cited Researcher (in Chemistry and Materials Science) (2014, 2015)
- Fellow of the Royal Society of Chemistry
- A.v. Humboldt Research Award (2009)
- Physical Chemistry Award of the Spanish Royal Society of Chemistry (2009)
- DuPont Award for Science (2010)
- Burdinola Research Award (2011)
- Fellow of the Optical Society of America (2012)
- ACS Nano Lectureship Award (2012)
- Langmuir Lecturer 2012
- ECIS Rhodia Prize 2013
- ERC Advanced Grant (2011-2016)
- Medal of the Spanish Royal Society of Chemistry (2014)
- Francqui Chair at KU Leuven (2014-2015)
- Smets Chair at KU Leuven and UC Louvain (2015)
- Rey Jaime I Award on Basic Research (2015)
- Corresponding Member of the Spanish Royal Academy of Sciences (2015)

- Co-Editor-in-Chief of the ACS Open Access journal, *ACS Omega*
- Senior Editor of the ACS journal of surfaces and colloids, *Langmuir* (2009-2016)
- Member of the Board of Reviewing Editors of *Science*.
- Member of the Executive Editorial Board of *Particle & Particle Systems Characterization* (Wiley).
- Sensing and Actuating Editor of *Nanotechnology* (IOP Science) (2015-2016)
- Member of the editorial advisory boards of *Langmuir* (2006-2008), *Journal of Physical Chemistry* (ACS), *Chemistry of Materials* (ACS), *ACS Nano*, *Accounts of Chemical Research* (ACS), *Journal of Materials Chemistry B* (RSC), *Faraday Discussions* (RSC), *Journal of Colloid and Interface Science* (2006-2008), *Nano Today* (Elsevier), *Chemistry – A European Journal* (Wiley), *Advanced Optical Materials* (Wiley), *ChemistryOpen* (Wiley), *ChemNanoMat* (Wiley), *Theranostics* (Ivyspring), and *Hybrid Materials* (Versita).
- Guest Editor of special issues in: *MRS Bulletin* (2001), *J. Mater. Chem.* (2006), *Langmuir* (2009, 2012) *Particle* (2014, 2016), *Chem. Soc. Rev.* (2014), *Faraday Discussions* (2016)
- Co-editor of 2 books: “Nanoscale Materials”, “Low-Dimensional Systems. Theory, Preparation, and Some Applications”, Kluwer 2003.
- President of the Colloids and Interfaces Division of the *Royal Spanish Society of Chemistry* (2009-2013).
- Organizer of 19 international and 3 national conferences/symposia.
- Proposal evaluator for funding agencies from Spain, The Netherlands, Belgium, Italy, Israel, Cyprus, Ireland, Denmark, UK, Switzerland, France, Poland, Czech Republic, Russia, Argentina, Mexico, USA, Canada, Australia, New Zealand, Singapore, Qatar, Korea, Japan, the ERC and the European Commission.
- Science Board member of the *Particulate Fluids Processing Centre*, University of Melbourne (2007-2009).
- Panel Member of ERC Starting Grants (2011 - 2013)
- Panel Chair of ERC Consolidator Grants (2014 -)
- Member of the Italian Institute of Technology (IIT) Standing Committee of External Evaluators for Materials Science & Applied Physics (2013 -)
- Member of the Scientific Advisory Board of *NEXT* (Nano, EXtreme measurements and Theory initiative) Toulouse (2013 -)
- Member of the Strategic Board of *LabEx LAPHIA* (Laboratory of Excellence, LASers and photonics in Aquitaine), University of Bordeaux (2014 -)
- Member of the Strategic Board of *B-Able* (Seed Capital Company) (2015 -)

Current Research Interests:

- Synthesis and formation mechanisms of metal, semiconductor and magnetic nanoparticles with controlled composition, size and morphology.
- Creation of colloidal composites, nanostructured thin films and nanoparticle ordered arrays in two and three dimensions.
- Optical properties of nanoparticles and their assemblies.
- Use of metal nanoparticles as biosensors.