

Elena Serrano Torregrosa

University of Alicante, Inorganic Chemistry Department

Crtra. San Vicente s/n. E-03690, Alicante, Spain, Tel: +34-699333928, (34) 965943400 ext 1385, 232

e-mail: elena.serrano@ua.es; www.nanomol.es(Scopus Author ID: 7103238476, orcid.org/0000-0003-3340-6675)**• Education**

- 2006 PhD in Materials Science (Thesis Title: *Nanostructured thermosetting systems by modification of an epoxy resin with epoxidized styrene-butadiene block copolymers*. Supervisor: Prof. I. Mondragon. GPA: *Suma Cum Laude. Outstanding Thesis Award*)
Chemical Engineering and Environ. Dept., University of Basque Country, Spain
- 2004 Master in Materials Science (GPA: *Very good*)
Chemical Engineering and Environ. Dept., University of Basque Country, Spain
- 2001 B.Sc. – Chemical Sciences. University of Alicante (UA), Spain.

• Current position

- 2013 – Postdoctoral Researcher (RL: Photoactive materials for clean energy applications)
Molecular Nanotechnology Lab., Inorganic Chemistry Dept., UA, Spain

• Previous positions

- 2010 – 2012 *Juan de la Cierva* Postdoctoral Researcher, Inorganic Chemistry Dept., UA, Spain
- 2011 Associate Researcher, Lab. Chimie Provence-CROPS, Univ. Aix Marseille-CNRS, France
- 2009 Postdoctoral Researcher, Inorganic Chemistry Dept., UA, Spain
- 2007 – 2008 Postdoctoral Researcher, National Institute of Applied Sciences INSA-CNRS, France (*Prof. J.P. Pascault's group*)
- 2005 – 2006 PhD Student, Chemical Engineering and Environ. Dept., University of Basque Country (UPV/EHU), Spain (*Supervisor: Prof. I. Mondragon*)
- 2002 – 2004 Junior Researcher, Chemical Engineering and Environ. Dept., UPV/EHU, Spain
- 2001 Erasmus student, Inst. Chemical Technology, Univ. Perugia, Italy (*Sup: Prof. J.M. Kenny*) (6 months)

• Fellowships and awards

- 2011 Mobility grant for Research Stays in Foreign Centres (Valencian Gov., Dept. of Science and Education, Spain, *competitive call, 1 year*). Topic: *Hybrid mesoporous silica containing block copolymers as surfactants/stabilizing agents and metal nanoparticles or metal complexes*
- 2010 – 2012 *Juan de la Cierva* Postdoctoral Fellowship (Spanish Ministry of Science and Education, *competitive call, 3 year contract*) Topic: *Nanostructured mesoporous/metal nanoparticles solids by self-assembly of supramolecular templates*
- 2008 Outstanding Thesis Award from the UPV/EHU, Spain (*competitive call, 3 awards over 52*)
- 2005 – 2006 PhD fellowship (Basque Country Gov., Dept. of Education and Science, Spain, *competitive call, 2 years*)
- 2006 Grant received from the UPV/EHU for a short stage at the European Synchrotron Radiation Facility (Topic: *SAXS characterization of nanostructured thermosets*)
- 2001 Erasmus Fellowship, European Commission (*competitive call, 6 months*)
- 2001 Prize awarded as one of the best students of the UA by the Valencian Government (Spain) for an abroad stage for novel researchers (6 months)

- **Supervision of graduate/PhD students**

- 2012 – 2015 PhD student: M. Rico-Santacruz, University of Alicante, Spain (Thesis title: *Band gap reduction in mesoporous titanias*, GPA: *Suma Cum Laude*, *European PhD*)
- 2009 – 2011 PhD student: Adela I. Carrillo, University of Alicante, Spain (Thesis title: *Novel Mesoporous Materials as Supports for Heterogeneous Catalysis*, GPA: *Suma Cum Laude*)
- 2009 – 2013 Master students: A.I. Carrillo-Gomez (2009), M. Rico-Santacruz (2012), L. Cano-Casanova (2013), J. Jiménez (2015), University of Alicante, Spain

- **Research and teaching evaluations**

- 2013 Recognition for twelve years of international-quality research (two six-year research periods, National Commission for the Evaluation of Research Activity, AVAP)
- 2012 Positive Evaluation as Professor (civil tenured lecturer) to belong the Spanish University Academic Staff (National Agency for Quality Assessment and Accreditation of Spain, ANECA, Ministry of Economy and Competitiveness)
- 2010 Positive Evaluation as non-civil servant tenured lecturer to belong the Spanish University Academic Staff (National Agency for Quality Assessment and Accreditation of Spain, ANECA, Ministry of Economy and Competitiveness)

- **Teaching activities**

- 2009 – Collaborator - Chemistry Degree, Chemical Engineering Degree, Master in Nanoscience and Nanotechnology, Dept. of Inorganic Chemistry, University of Alicante, Spain
- 2013 Co-director of 'Nanotechnology: Solutions and Current Challenges' course, Summer Program Course, University of Alicante, Spain

- **Commissions of trust and memberships of scientific societies**

- 2013 Project Evaluator of National Research Projects, 'Unity through Knowledge', Business-Innovation Agency, Republic of Croatia
- 2008 – Reviewer of Peer-reviewed Scientific Journals (ChemCatChem, Catal. Today, Microp. Mesop. Mater., Electrochimica Acta, among others)
- 2009 Project Evaluator of National Research Projects, National Fund for Scientific and Technological Development (FONDECYT) of the Chilean Government Commission for Scientific and Technological Development (CONICYT), Chile
- 2010 – Member of the "*Educative Technological Innovation Network of Inorganic Chemistry*", University of Alicante, Spain
- 2010 – Member, Research Network "*Spanish Royal Society of Chemistry*"

- **Books (editor)**

- 2011 J. Garcia-Martinez, E. Serrano-Torregrosa, Eds. "The Chemical Element. Chemistry's Contribution to Our Global Future", WILEY-VCH, Weinheim, ISBN: 978-3-527-32880-2, 360 pp. www.thechemicalelement.com
- 2015 J. Garcia-Martinez, E. Serrano-Torregrosa, Eds. "Chemistry Education: Best Practices, Opportunities and Trends", WILEY-VCH, Weinheim, ISBN: 978-3-527-33605-0, 792 pp.

- **Patents**

- 2013 M. Rico-Santacruz, A.E. Sepúlveda, E. Serrano, J.R. Berenguer, E. Lalinde, J. Garcia-Martinez, "In-situ functionalized titanias. Methods of Making and Using the Same", Spanish patent 201300536 (2013).