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**36 years**  
**Nationality Italian**



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### Scientific interests:

My current research focuses on nanostructured materials, specifically on the synthesis of novel multifunctional materials, their characterization and the study of their physical properties.

The main objectives can be grouped as follows:

- 1) Synthesis of crystalline metal oxide nanoparticles, hybrid materials and thin films by novel nonaqueous sol-gel routes.
- 2) Characterization (especially TEM studies) and assembly of the obtained materials.
- 3) Study of their physical properties: optical, electrical, electrochemical, magnetic, catalytic, sensing, etc.

### Current affiliations:

- ▷ **From 2009:** World Class University Professorship at the Department of Chemical and Biological Engineering, Seoul National University, Korea.
- ▷ **From 2006:** Investigador Coordenador (highest research position in Portugal) at the Department of Chemistry and CICECO, University of Aveiro, Portugal.

### Professional experience:

- ▷ **October 2011:** Invited Professor at the University of Montpellier II, France.
- ▷ **February 2010:** Invited Professor at the University of Paris XII, France.
- ▷ **March 2009:** Invited Professor at the University of Bordeaux I, France.
- ▷ **May 2008:** Offer of a Professor position at the University of Namur, Belgium. Declined.
- ▷ **2005-2006:** Nachwuchsgruppenleiter (Assistant Professor), leading the group of inorganic nanoparticles at the Institute of Inorganic Chemistry of the Martin Luther University Halle-Wittenberg.
- ▷ **2005-2006:** Guest scientist at the Max Planck Institute of Microstructure Physics, Halle.
- ▷ **2003-2004:** Post Doc at the Max Planck Institute of Colloids and Interfaces (Professor M. Antonietti) "Synthesis, characterization, assembly and properties of metal oxide nanoparticles."

- ▷ **2002-2003:** Post Doc at the Fritz Haber Institute of the Max Planck Society (Professor R. Schlögl and Professor J. Urban) “Synthesis, characterization and catalytic studies of vanadium oxide based nanomaterials.”
- ▷ **1998-2001:** PhD Thesis at the LM2N (Laboratoire des Matériaux Mesoscopiques et Nanométriques) and at the CEA (Commissariat pour l’Energie Atomique), Supervisor: Professor M.-P. Pileni. “Nanomaterials: structural studies and optical properties.”
- ▷ **1997-1998:** Master: DEA Electrochemistry (University Paris VI).
- ▷ **1993-1997:** Bachelor: Physical Chemistry (University Paris VI).

### Teaching:

- ▷ “Solid state physical chemistry” and “characterization of nano materials” courses (45h each) at the Seoul National University starting from September 2009.
- ▷ Joint master degree on science and engineering of materials at the University of Aveiro 2006-2010.
- ▷ “Solid state chemistry” course at the University of Halle 2005-2006.
- ▷ “Introductory chemistry” exercises at the University of Halle 2005-2006.
- ▷ Invited lecturer at the ACS PRF Summer School on Nanoparticle Materials at Eastern Michigan University 2004.

### Achievements:

- ▷ Ranked among the top 100 materials scientists of the past decade by impact in March 2011 (<http://sciencewatch.com/dr/sci/misc/Top100MatSci2000-10>).
- ▷ More than 80 articles published in international journals in the past 11 years. The total number of citations is larger than 3000 and the average number of citation per article is larger than 35. The *h*-index associated is 33 (data ISI September 2011).
- ▷ 2 patents on the synthesis of high purity metal oxide nanoparticles and thin films.
- ▷ Referee for more than 20 high impact factor international journals.
- ▷ Member of the editorial board of “CrystEngComm” and of the International Advisory Board “Journal of Industrial and Engineering Chemistry” and “Science of Advanced Materials”.
- ▷ Guest editor of the special issue of the European Journal of Inorganic Chemistry on metal oxide nanoparticles (Issue 6, 2008)
- ▷ Guest editor of a thematic issue of Physical Chemistry Chemical Physics (PCCP) on “Metal Oxides Nanostructures: Synthesis, Properties and Applications” (Issue 19, 2009)
- ▷ Co-organizer of the symposium A: Chemistry and Processes for the Design of Metal Oxide Nanoparticles of the EMRS fall meeting, Warsaw, September 17-21, 2007
- ▷ Organizer of the symposium E: Metal Oxides Nanostructures: Synthesis, Properties and Applications of the EMRS Spring meeting, Strasbourg, June 8-12, 2009

### Languages:

Italian, French, English, German, Portuguese