

Nicola PINNA

35 years

Nationality Italian

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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:

- March 2009: Invited Professor at the University of Bordeaux I, France.
- May 2008: Offer of a professor position at the University of Namur, Belgium.
- 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: Research associate 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 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).

Scientific interests:

My actual research focuses on nanostructured materials, mainly dealing with 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, magnetic, catalytic, gas sensing, etc.

Achievements:

- More than 60 articles published in international journals in the past 9 years.

The total number of citations is larger than 2000 and the average number of citation per article is larger than 30 and the *h*-index associated is 28 (data ISI January 2010).

- 2 patents on the synthesis of high purity metal oxide nanoparticles and thin films.

- Teaching:

"Solid state physical chemistry" and "characterization of nano materials" courses at the Seoul National University starting from September 2009.

Joint master degree on science and engineering of materials at the University of Aveiro 2006-2008.

"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.

- Referee for more than 20 high impact factor international journals including: *Angewandte Chemie*, *Advanced Materials*, *Advanced Functional Materials*, *Applied Physics Letters*, *Chemistry of Materials*, *ChemPhysChem*, *Dalton Transactions*, *European Journal of Inorganic Chemistry*, *Journal of the American Chemical Society*, *Journal of Materials Chemistry*, *Journal of Physical Chemistry*, *Journal of Physics: Condensed Matter*, *Inorganic Chemistry*, *Langmuir*, *Nanotechnology*, *Physical Chemistry Chemical Physics*, *Small*, *Soft Matter*, etc.

- Member of the editorial board of the "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