

## CV of Liberato Manna

<http://www.researcherid.com/rid/G-2339-2010>



**Born December 5<sup>th</sup> 1971, Italian Citizen**

### Professional Preparation

Ph.D. in Chemistry, University of Bari, Italy, 2001

M.S. in Chemistry, with Honours, University of Bari, Italy, 1996

### Research interests

I am an expert of synthesis and assembly of colloidal nanocrystals. My research interests span the advanced synthesis, structural characterization, assembly and modelling of growth of inorganic nanostructures for applications in energy-related areas, in photonics, electronics and biology. A recent area of interest involves the study of structural, chemical and surface transformations in nanocrystals.

### Appointments

2010-current: Professor of Quantum Nanoscience, Kavli Institute of Nanoscience, Delft University of Technology (The Netherlands) (part-time, unpaid position)  
2009-current: Head of the Nanochemistry Department at the Italian Institute of Technology in Genova (Italy)  
2006- 2009: Leader of the Chemistry Division at the National Nanotechnology Lab in Lecce (Italy)  
2003-2008: Junior Scientist at the National Nanotechnology Lab in Lecce (Italy)  
2003: Visiting Scientist at the Center for Nanoscience, Munich (Germany)  
2001-2003: Postdoctoral Fellow, University of California, Berkeley  
1999-2000: Visiting student, University of California, Berkeley

### Major Research Grants Secured

2013-2016: FP7-ICT-2013-FET-F “Graphene-Driven Revolutions in ICT and Beyond” (under negotiation), Project Partner  
2012-2014: European FP7 Marie Curie IEF project (NIRPLANA, contract n. 298022), Supervisor  
2012-2014: European FP7 Marie Curie IEF project (LOTOCON, contract n. 301100), Supervisor  
2013-2016: European FP7 Marie Curie ITN project (MAGNETICFUN, contract n. 290248)  
2012-2015: European FP7 large scale project (SCALENANO, contract n. 284489)  
2011-2014: Italian FIRB project (Nanostructured oxides, contract n. RBAP115AYN)  
2009-2013: European Research Council (ERC) FP7 starting grant recipient (NANO-ARCH, contract n. 240111)  
2009-2012: European project FP7 SMALL, project partner (MAGNIFYCO, contract n. 228622)  
2006-2009: European FP6 Marie Curie TOK Network, scientific leader for>NNL (NANOTAIL, contract n. 042459)  
2006-2010: Italy-USA Bilateral Project (Italian Min. of Research), scientific leader for>NNL (contract n. RBIN048TSE)  
2005-2008: European project FP6 STREP, project coordinator (SA-NANO, contract n. 013698)

### Publications and Patents

176 papers in international journals (6 review articles), excluding conference proceedings, 15 book chapters, around 11,500 citations, H index 42 (ISI Web of Science, March 2013);

### Covers of journal issues

1. "Semiconductor Nanorods Liquid Crystals", Nano Letters 2002, <http://pubs.acs.org/action/showLargeCover?issue=40378338>
2. "Nanocrystal Phase Control", Nature Materials 2003, <http://www.nature.com/nmat/journal/v2/n6/covers/index.html>
3. "Room temperature-dipolelike single photon source with a colloidal dot-in-rod", Applied Physics Letters 2010, <http://apl.aip.org/resource/1/applab/v96/i3>
4. "Interlocked branched nanocrystals", Nature Materials 2011, <http://www.nature.com/nmat/journal/v10/n11/covers/index.html>
5. "Showcasing research from the recipient of the 2011 Journal of Materials Chemistry Lectureship", Journal of Materials Chemistry 2012, <http://pubs.rsc.org/en/content/articlepdf/2012/jm/c2jm90087d>

### Awards & research highlights:

- 2013: American Chemical Society Early Career Award in Experimental Physical Chemistry (<http://phys-ac.s.org/awards/2013.html>)
- 2011: Ranked #24 among the top 100 Chemists of the last decade by Thomson Reuters (<http://www.sciencewatch.com/dr/sci/misc/Top100Chemists2000-10/>)
- 2011: Journal of Materials Chemistry Lectureship Award (Royal Society of Chemistry)
- 2011: Highlighted by ChemComm as among the top emerging investigators in chemical sciences worldwide.
- 2010: Highlighted by the Journal of Materials Chemistry as among the top twenty emerging investigators in materials chemistry worldwide.
- 2009: Highlighted in the October 2009 issue of ScienceWatch for "Emerging Research Front Paper in the field of Materials Science" (Thomson Reuters, <http://sciencewatch.com/>).
- 2009: European Research Council (ERC) Starting Grant recipient
- 2009: R&D 100 Award recipient for 'Cost Competitive Solar Cells'
- 2007: 'Ugo Campisano' Young Investigator Award in Materials Science (Italian Institute for Condensed Matter Physics, [www.infm.it](http://www.infm.it)).
- 2007: Ranked #9 among the most cited scientists worldwide working on nanocrystals by 'Essential Science Indicators' (Thomson Scientific), [www.esi-topics.com](http://www.esi-topics.com).
- 2005: Top nine innovators in Italy younger than 35 (Financial magazine 'Il Sole 24 ore')
- 2002: 'Berkeley Lab Technology Transfer Award'
- 2001: 'Semerano Award' (Italian Association of Physical Chemistry): best PhD thesis in Physical Chemistry in Italy in 2001.
- 2000: 'Umberto Maria Grassano Award' (Italian Association of Physics).

### Invited talks

53 Invited conference presentations, 28 invited seminars/lectures/colloquia at Universities, Research Centres and Companies

### Granted Patents and Patent Applications

10 issued patents, 14 patent applications

### Teaching Expertise

Delivered many talks on general aspects of nanoparticles at various international schools  
Fall semester 2004: taught a class on 'Polymer Science' (University of Lecce)  
Spring semester 2006: taught a class on 'Physical Chemistry of interfaces' (University of Lecce)

### Organization of conference/symposia

2014: Chairman of the "Quantum Dots 2014" conference, to be held in Pisa (forthcoming)

- 2012: Co-Organizer of the Symposium “Organized Nanostructures and Nano-objects: Fabrication, characterization and applications” within the framework of the EMRS Fall Meeting 2012, September 17th-21st 2012, Warsaw University of Technology
- 2010: Organizer of the Symposium "Science and Technology of Nanotubes and Nanowires and Graphene" at the June 8th-10th 2010 European Materials Research Society Spring Meeting (EMRS2010) in Strasbourg, France
- 2008: Chairman of the International Conference ‘Nanoscience with Nanocrystals’ (NANAX3), May 21st-23rd 2008, Lecce, Italy

**Editorial Board Membership**

- Journal of Experimental Nanoscience
- Journal of Nano-Optics and Nanoelectronics
- Particle & Particle Systems Characterization (Wiley)