

ANDREA LI BASSI Curriculum vitae (October 2017)

Born in 1972, August 8th.

EDUCATION

1997: Degree (100/100 cum laude) in Nuclear Engineering, Politecnico di Milano

2000: Ph.D. in Condensed Matter Physics, Durham University (UK)

ACADEMIC POSITIONS:

- 2001-2002: Postdoc researcher, Politecnico di Milano

- 2002-2010: Assistant Professor (Physics of Matter), Politecnico di Milano

- 2010-2016: Associate Professor (Physics of Matter), Politecnico di Milano

- 2016-present: Full Professor (Physics of Matter), Politecnico di Milano (Department of Energy), SC 02/B1, SSD FIS/03

RESEARCH INTERESTS AND BACKGROUND

Present research fields: 1) synthesis of nanostructured functional surfaces for energy applications, in particular by Pulsed Laser Deposition (PLD); 2) Scanning Tunneling Microscopy and Spectroscopy of supported clusters and nanostructured surfaces; 3) Raman scattering from carbon-based and metal oxide nanostructured systems. Previous research and technical experience: supersonic cluster beam deposition; characterization of nanostructures and nanostructured films by inelastic (Raman, Brillouin) light scattering, x-ray diffraction, x-ray reflectivity (also at synchrotron sources: SRS Daresbury, UK; ESRF Grenoble, France; ELETTRA Trieste, Italy).

PI or unit coordinator in 9 funded research projects.

TEACHING ACTIVITY

I have been lecturing in different courses to Engineering undergraduate and postgraduate students at Politecnico di Milano: Physics, Solid State Physics, Physics of Condensed Matter; I am currently lecturer of the courses 'Introduction to Nanotechnology A+B', 'Nanomaterials for Energy Conversion', I have been coordinator of the PhD course "Materials for Energy" and lecturer of the PhD module "Materials for photovoltaics".

INSTITUTIONAL ROLES

Responsible of research and teaching activities of the Micro and Nanostructured Materials Laboratory; member of the steering board of the Department of Energy; faculty member and secretary of the BSc/MSc faculty board in Materials Engineering and Nanotechnology; faculty member of the BSc/MSc courses Nuclear Eng. (MSc) and Biomedical Eng. (BSc); member of the board of studies of the PhD track in Materials Engineering.

FELLOWSHIPS

2010 – present: Center for Nano Science and Technology CNST of the Italian Institute of Technology.

2004 – present: Center for NanoEngineered Material and Surfaces (NEMAS), Politecnico di Milano.

BIBLIOGRAPHIC DATA

ResearcherID: www.researcherid.com/rid/B-2448-2009

Author of more than 125 publications; 8 invited contributions to volumes; several (>20) conference proceedings. October 2017 citation data (since 1997): (Web of Science) total citations > 3350, h-i=32; Google Scholar: h-i = 38; total citations > 4450; Scopus: h-i=32, citations > 3400.

27 invited talks at conferences, workshops, schools.

Referee for international projects/calls (e.g. FLAG-ERA Graphene Flagship), scientific books and international journals, among which Phys Rev B, Phys Rev Lett, Phys Rev Appl, J Amer Chem Soc, Appl Phys Lett, J Appl Phys, Nanotechnology, Thin Solid Films, Appl. Surf. Science, Journal of The Electrochemical Society, NPG Asia Mater.