

## ANDREA LI BASSI Curriculum vitae (October 2021)

### 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, Politecnico di Milano

- 2010-2016: Associate Professor, Politecnico di Milano

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

### RESEARCH ACTIVITY

Present research fields: 1) synthesis of nanostructured functional surfaces and thin films for photoconversion, plasmonics, sensing and energy applications, in particular by Pulsed Laser Deposition (PLD); 2) Scanning Tunneling Microscopy and Spectroscopy of 2D materials and nanostructures on surfaces; 3) Raman scattering from carbon nanostructures and metal oxide nanostructured systems. Previous research experience: supersonic cluster beams; inelastic light scattering (Raman, Brillouin) from nanostructured materials, x-ray diffraction and x-ray reflectivity of thin films (also at synchrotron sources: SRS Daresbury, UK; ESRF Grenoble, France; ELETTRA Trieste, Italy). PI or local responsible in 11 funded research projects.

### TEACHING ACTIVITY

I have lectured in different courses to Engineering B.Sc., M.Sc. and Ph.D. students at Politecnico di Milano: Physics, Physics of Condensed Matter, Introduction to Nanotechnology. I am currently lecturer of the courses Solid State Physics and Nanomaterials for Energy Conversion. I have been lecturer of the PhD course Materials for Energy.

### INSTITUTIONAL ROLES

Coordinator of the division Chemical Technologies and Processes and Nanotechnologies of the Department of Energy. Responsible of research and teaching activities of the Micro and Nanostructured Materials Laboratory; from 2013 to 2019 member of the steering board of the Department of Energy; faculty member and secretary of the faculty board in Materials Engineering and Nanotechnology; faculty member of the courses Nuclear Eng. and Telecommunication Eng.; 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.

### BIBLIOGRAPHIC DATA

ResearcherID: <https://publons.com/researcher/B-2448-2009/>

Author of more than 160 publications; 9 invited contributions to volumes; several (>20) conference proceedings. October 2021 citation data: (Web of Science) total citations ~ 5020, h-i=38; Google Scholar: h-i = 45; total citations ~ 6800; Scopus: h-i=39, citations ~ 5140.

30 invited talks at conferences, workshops, schools. Listed in the Top Italian Scientists database.

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