

VALERIA RUSSO

Born in 1970, March 28th.



EDUCATION

1999: Ph.D. in Science and Technology for Nuclear Plants, @PoliMI

1995: Degree (100/100 cum laude) in Nuclear Engineering @PoliMI

ACADEMIC POSITIONS

2019 - present: Associate Professor (SSD FIS/03) @PoliMI

2016 - 2019: Assistant Professor (SSD FIS/03) @PoliMI

2002 - 2016: Postdoc researcher @PoliMI, @INFM

TEACHING ACTIVITY @PoliMI

- Currently professor in charge of the BSc/MSc course Physics of Matter-Atomic Physics
- Formerly lecturer in BSc/MSc courses: General Physics, Solid State Physics, Introduction to Nanotechnology

INSTITUTIONAL ROLES @PoliMI

- Member of the steering board of the Department of Energy.
- Member of the faculty committee of MSc Program in Nuclear Engineering and BSc/MSc Program in Material Engineering and Nanotechnology.
- Member of the faculty committee of PhD Program in Energy and Nuclear Science and Technology (STEN).

RESEARCH INTERESTS

- Experimental study of physical properties in nanostructures, nanostructured materials (metal oxides, carbon-based materials), 2D materials and heterostructures.
- Structural vs. functional properties (electronic, optical, transport) correlation.
- Design, synthesis and study of innovative systems with engineered properties at the nanoscale in view of innovative applications in many fields (i.e., energy, accelerators).
- Characterization of nanostructured materials and surfaces by inelastic light scattering (Raman, SERS, RRS, Brillouin spectroscopy), XRD, photoluminescence.

FELLOWSHIPS

2017 – present: IIT Center for Nano Science and Technology

2014 – 2019 EUROfusion, Euratom Horizon 2020

BIBLIOMETRICS (January 2021)

Author of 86 scientific papers in the field Physics of Matter. Scopus: h-index 27, 220 co-authors, 2200 citations. Author of several contributions at international conferences. Referee for international journals (i.e., J Appl Phys, Nanotechnology, Thin Solid Films, Appl. Surf. Science, The Journal of Physical Chemistry, RSC Advances, Materials Chemistry and Physics, Materials, ACS Applied Materials&Interface).

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