

# Curriculum vitae Dr. Fabio Ronci

## Education

Fabio Ronci received in 1995 the master degree in Chemistry at the University of Rome “La Sapienza”, discussing a thesis titled “Study of anodic materials for lithium-ion batteries”, supervisors Dr. Fausto Croce and Prof. Bruno Scrosati. In the same University he received in 2001 the doctoral degree in Materials Science, discussing a thesis titled “Synthesis and characterization of cobalt- and iron-substituted lithium nickel oxides”, supervisor Prof. Bruno Scrosati.

## Professional experience

- February - March 1996: Researcher at ENEA in Rome where he carried out research on the electrochemical properties of materials for Molten Carbonate Fuel Cells (MCFC).
- May 1996 - June 1998: Research Fellowship in Prof. Scrosati's group at the University of Rome “La Sapienza” for the study of electrodic and electrolyte materials for lithium polymer batteries.
- March 2000: Guest Researcher at the Osaka National Research Institute (ONRI), Ikeda, Osaka, Japan, where he worked on the structural study of cathodic materials.
- April 2000-December 2001: Researcher at the Chemistry Department of the University of Rome “La Sapienza” with a two-years Research Grant on “Synthesis and Characterization of Electrode Materials for Batteries”.
- May-July 2001: post doctoral position at the City University of New York (USA).
- December 2001 - present time: Researcher at Istituto di Struttura della Materia (CNR).

## Research field

His main research field is Surface Physics, studying in particular the structural and electronic properties of 2D materials, interfaces and nanostructures obtained by atomic/molecular deposition or by chemical vapor deposition (CVD) on clean semiconductor or metal surfaces in Ultra High Vacuum (UHV). Main sample characterization techniques: Scanning Tunneling Microscopy/Spectroscopy (STM/STS), Low Energy Electron Diffraction (LEED) and Auger Electron Spectroscopy (AES).

## Current research activity

Synthesis and characterization of:

- 2D materials like graphene and antimonene;
- Semiconductor/metal interfaces like Si/Ag(110), Si/Ag(111), Si/Ni(111), Si/Gr/(Ni(111));
- Hybrid organic/inorganic interphases obtained by phthalocyanine molecular deposition on different inorganic substrates

He is Reviewer for the following international scientific journals:

- ACSNano (American Chemical Society)
- Physical Review B (American Physical Society)
- Physical Review Materials (American Physical Society)
- Nanotechnology (Institute of Physics)
- Thin Solid Films (Elsevier)
- Beilstein Journal of Nanotechnology (Beilstein Institute)

He is author of more than 70 peer-reviewed scientific publications (>2000 citations; ISI-WoS h-index: 21; Google Scholar h-index: 24) and several oral presentations (6 of which invited talks) at international conferences.

Rome, 12 June 2020