

CURRICULUM VITAE ET STUDIORUM: Federica Valentini

Education

1990 - 1991 University “La Sapienza”, Chemistry, Roma, Italy
marks 110/110 and honour

2000 – 2003 PhD, Analytical Chemistry, with honour Roma, Italy

Technical experience

- Experience with amperometric/electrochemical sensors, biosensors, immunosensors assembly and their characterization.
- Experience with portable μ -sensors for environmental monitoring of macro-; and micro-climates in “indoor and outdoor” environments (“*Air Quality Control*” of Hystorical surfaces)
- Experience with chemical, electrochemical and physical [as Chemical Vapour Deposition, Physical Vapour Deposition and MBE (Molecular Beam Epitaxy)] synthesis of nanomaterials
- Experience with Scanning Electron Microscopy and Energy Dispersive Detection for carbon nanostructured materials, metallic based nanomaterials, polymeric nanostructures and nanocomposite materials. Characterization performed by High-Resolution Transmission Electron Microscopy (HR-TEM) and XRD (X-Ray Diffraction)
- Analysis by Atomic Force Microscopes (AFM) and Scanning Tunneling Microscope/Scanning Tunneling Spectroscopy (STM/STS) of carbon nanomaterials (i.e, carbon nanotubes and multi-layer of oxidized graphene).
- Experience with TGA/DTA thermo-Analysis and DSC.
- Experience with Raman and XRF
- Experience with confocal laser scanning microscopy for the biofilms characterization on deteriorated stone surface

Scientific production

- 55 papers in refereed journals, three of which on invitation
- 37 talks at international conferences, three of which on invitation
- 6 seminars on invitation
- 130 conference contribution

Languages

- Italian Mother tongue
- English Fluent speaking, reading and writing capabilities
- French Fluent speaking, reading and writing capabilities
- Spanish Good speaking and reading capabilities

Teaching experience

- Analytical Chemistry– for 3nd year students of Science and Material Technologies
- **(2007-2012)**
- Lab of Analytical Chemistry – for 3nd year students of Science and Material Technologies **(2007-2012)**
- Environmental Chemistry and Cultural Heritage for 5nd students of Cultural Heritage Science (2007-2012)
- Analytical Chemistry in Environmental Science and Cultural Heritage, for 2nd students of Cultural Heritage Science (2009-2012)