



Silvia Vicini

Associate professor

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Education and training

1998

Graduated in Chemistry

108/110

University of Genoa - Genoa - IT

2002

Ph.D. in Chemistry

University of Genoa - Genoa - IT

Academic experience

2005 - 2016

Researcher

University of Genoa

2016 - ONGOING

Associate Professor

University of Genoa

Language skills

English

Independent

Portuguese

Basic

French

Basic

Teaching activity

I am teaching courses regarding the Laboratory of Industrial Chemistry, Chemistry for Cultural Heritage and Pollution with Environmental Impact at University of Genoa.

Postgraduate research and teaching activity

Supervision of PhD students, residents and post-doctoral fellows

I have been supervisor of students during their Master degree thesis.

I have been Tutor of Ph. D. Students:

AA 2013-2016: Synthesis and characterization of Ca-Alginate Hydrogel for

technological application.

AA 2017: Sviluppo di nuovi stucchi per applicazioni industriali nel settore dello Yachting.

Research interests

I studied analytical methods to characterize binders and pigments in artistic painting.

The main topics of my research are the science and technology of polymeric materials and chemistry for the conservation and protection of different substrates, including items belonging to the Cultural Heritage, as stone, mortars and paper.

In these fields, I got Beamtime at the ISIS Center of Rutherford Appleton Laboratory in Oxford (UK) to apply the Neutron Scattering (SANS) technique and at the ESRF in Grenoble (France) to apply the micro-infrared to the evaluation of protecting treatments on porous materials (stone and paper). I had a Post-Graduated training project of 1 year in Atofina Chemical Inc., Research & Development Center, Performance Polymer Division, King of Prussia, Pennsylvania, USA, regarding fluoropolymers and acrylics for paint and varnish. I got experience in the field of coatings, formulation science, characterisation and application of protective agents to porous substrates, with particular regards to stone, concrete and wood.

In the framework of NATO Science Program, Collaborative Linkage Grant I spent 1 month in the Division of General Chemistry, Faculty of Chemistry, Nicolaus Copernicus University of Torun, Poland, in order to study the miscibility between natural and synthetic polymers (chitosan and PVP).

On 2013 and 2014 I spent 6 months, as Visitor Professor, in the Universidade Federal de Minas Gerais (UFMG); Departamento de Química, Belo Horizonte, Brazil, working on hydrogels based on polyacrylamide and on analysis of the degradation of the soapstone Prophets in Congonhas, MG.

I published 100 papers, among them 65 on international journals (Scopus: h-Index 22).

I'm co-inventor of 4 patents (one of them is an US Patent).

I have participated to 65 national and international conferences, having talks and showing posters, and to 17 schools and courses. I contributed to the organization of schools, conferences and workshop.

I have participated in six research projects financed by Italian Ministry of Research and University and in five projects financed by Regional Institution.

I have also participated to a European Project in the 6th Framework Programme for Research, Technological Development and Demonstration (title: Innovative materials and technologies for the conservation of paper of historical, artistic and archaeological value). I have got research contracts with Italian industries.

Editorial activity

I wrote chapters in 5 books.

I'm reviewer in the following scientific journals:

European Polymer Journal; Progress in Organic Coatings; Analytical and

Bioanalytical Chemistry; Cellulose; Journal of Cultural Heritage; Journal of Photochemistry and Photobiology A: Chemistry; Journal of Applied Polymer Science; International Journal of Biological Macromolecules; Polymer Degradation and Stability; Industrial & Engineering Chemistry Research; Polymer Bulletin; Surface and Interface Analysis; Polymers for Advanced Technologies; Applied Clay Science; Analytical Methods.