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Curriculum Vitae et Studiorum Valerio Causin

Valerio Causin

Born in Venice, Italy, on March 14th, 1975

Home address: via Grazioli 29, 30174 Venice (Italy)

Affiliation: Dipartimento di Scienze Chimiche, Università di Padova, via Marzolo 1, 35131 Padova, Italy

EDUCATION:

- 2004 Ph.D., Chemical Sciences. University of Padova. Dissertation: Forensic Characterization of Textile Fibers.
Dissertation Co-Chairs: Prof. Antonio Marigo, Prof. Maurizio Casarin
- 2000 B.Sc., *Magna cum Laude*, Industrial Chemistry. University of Padova.
Thesis: Role of microstructure and temperature on the crystallization behaviour of isotactic polypropylene.
- 1998 Spring Semester at Boston University.
Attendance of three courses (Physical Chemistry II, Laboratory of Physical Chemistry and Reaction Mechanisms in Organic Chemistry) as exchange student. Final average: A.

PROFESSIONAL POSITIONS:

- 2015 – Associate Professor at the Department of Chemical Sciences.
- 2007-2015 Assistant Professor at the Department of Chemical Sciences.
- 2006-2007 Post-Doc at the Department of Chemical Sciences.
- 2004-2005 Post-Doc grantee of Federchimica (Association of Italian Chemical Industries)
- 2001-2003 Supervisor of the Chemistry Section – Contact Traces Laboratory. Reparto Carabinieri Investigazioni Scientifiche (Forensic Science Unit of Carabinieri, the national police force of Italy).

RESEARCH INTERESTS:

Structural and Morphological Characterization of Materials, especially Polymers and Polymer-based Nanocomposites
Forensic Analysis of polymer-based items and contact traces
Crystallization Behavior of Materials

Valerio Causin research activity is centered on the structural and morphological characterization of materials, by small-angle X-ray scattering, wide-angle X-ray diffraction, thermal analysis and optical and electronic microscopy. An important application of his studies is in forensic sciences, where he applies material science characterization techniques to items connected to crime scenes, with the aim of singling out their source. V.C. collaborated with Lyondell Basell, Akzo Nobel and Solvay-Solexis and participated to several projects co-financed by the Italian Ministry of Research and by the European Union.

He initiated a number of collaborations both with other groups of the Department of Chemical Sciences of the University of Padova and with international research groups based in Singapore, India, Nepal, South Korea and South Africa. Research in forensic science is on the other hand carried out in collaboration with the Forensic Branch of Carabinieri, in Rome and Messina, and with judges and lawyers all around Italy.

He served and currently serves as a referee in the peer review process of a number of international journals, such as Journal of The American Chemical Society, Polymer, Journal of Applied Polymer Science, European Polymer Journal, Polymer International, Macromolecular Materials and Engineering, etc.

He also served as a reviewer for projects on behalf of the National Science Foundation (USA) / National Research Foundation (Sud Africa), of the Medical Research Council of South Africa, of the Romanian National Council for Research and Development and of the City University of New York.

In 2009 he was awarded the AIM prize for young researchers in polymer science.

In 2011 he was elected a member of the Scientific Committee of the POLYCHAR World Forum on Advanced Materials.

In 2011 he was invited by the China National Narcotics Control Commission of the People's Republic of China to hold a workshop on the analysis of drug packaging for forensic intelligence purposes.

In 2015 he received the International Materials Science Prize awarded by Scientific Committee of PolyCHAR World Forum on Advanced Materials.

V.C. authored one monograph, more than 90 articles in international journals and five book chapters. He presented more than 60 communications in national and international congresses, often as an invited, keynote or plenary speaker.

UNIVERSITY, SCHOOL, AND DEPARTMENT SERVICE:

University of Padova

2003-2004 and 2007- Department of Chemical Sciences – Member of the Dept. Council

2011- Member of the Didactic Commission of the Department of Chemical Sciences

2010- Member of the Chemical Degree Commission of the Courses of Studies in Chemistry and Industrial Chemistry

2013-2019 - Member of the Department Executive Committee

2019 – Member of the Didactic Commission of the PhD Program in Molecular Sciences of the University of Padova

PROFESSIONAL CONSULTING:

2003- Consultant of several industrial laboratories, employed in cases where it was necessary to identify the cause of, and propose effective solutions to, damage and failures of polymeric objects.

2002- Forensic Consultant of the Judge, the Prosecutor, the Defendant and the Plaintiff in a variety of criminal and civil trials all over Italy and San Marino on the analysis of fire accelerants, metal debris, fibers and damage to textiles and inks.

PROFESSIONAL ASSOCIATION MEMBERSHIP:

Ordine dei Chimici (Italian Register of Professional Chemists)

Albo dei Consulenti Tecnici d'Ufficio del Tribunale di Venezia (Bar of the Forensic Consultants in Civil Justice)

Albo dei Periti del Tribunale di Venezia (Bar of the Forensic Consultants in Criminal Justice)

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