CV Sintetico di Roberto Zamboni

ROBERTO ZAMBONI
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Professional Preparation

Roberto Zamboni is an Associate Research Director of CNR-ISOF.
His professional experience include: CEA-Saclay France, Prof. J. Messier, Dr. F. Kajzar, Stage on Nonlinear optics (mainly third harmonic generation, April–June 1986; CCNY-USA, Profs- R. Alfano and R. Dorsinville, Stage on Nonlinear optics (mainly degenerate four wave mixing), March-April 1987; Max Planck Institute Heidelberg, Prof. D. Schweitzer, Associate fellow, Organic Superconductivity, 1988-1989; University of Marburg (Germany), Prof. H. Baessler, Associated Fellow at the Department of Physical Chemistry, Nonlinear photophysics of conjugated systems, May-June, 1996. Publication includes over 200 papers in international peer-reviewed journals, peer-reviewed proceedings, and books (cited more than 5000; actual h-index: 41), and 7 patents. The solid-state chemical-physics properties, in particular, thin films of electroactive and photoactive molecular systems are the general background of Dr. Roberto Zamboni. Linear and nonlinear optical spectroscopies both pulsed and CW laser-excited, FT-IR and Raman are internationally recognized techniques of the scientific activity of Roberto Zamboni. His interests in conjugated electroactive and photoactive thin film together with the design and fabrication of high vacuum (1989-90) and ultra-high vacuum organic molecular beam deposition systems, OMDB (1992-94), allowed considerable and recognized scientific activity on design and fabrication of optoelectronic and photonic devices based on organic materials (OLEDs, organic transistors, OLET, ultrafast optical switches). This has been the starting point for the development of new optical nanoprobes enabling measuring time-resolved together with imaging at the nanoscale of optical observables. Recently the major scientific interest focused on the development of hybrid biofunctional systems and living technologies based on natural biopolymers, namely fibroin and keratin, from waste products of the textile and food industry.

Appointments

Since 1st May 2023 is a Senior Associate Director of Research to CNR-ISOF

Since 2010, he is the Head of the Emilia-Romagna Region-CNR Technopole AMBIMAT (https://tecnopolo.bo.cnr.it/; http://www.laboratoriomister.it/en/)

Director of the Institute of Organic Synthesis and Photoreactivity https://www.isof.cnr.it/ (August 2010 - January 2021)

President of the CNR Research Area in Bologna http://www.bo.cnr.it/index-eng.html April 2015 – December 2020)

Fellow of the SPIE in recognition of distinguished and valuable contributions to the field of Optics and Photonics (2012)

Head of the CNR-ISMN Bologna Unit (2009)

Since 2001 he collaborates to ASTER (the Agency for Technology Transfer of the Emilia-Romagna Region) http://www.aster.it/en and as a member of the Board Directors (2005-2017)

He collaborate to AIRI (Italian Agency for the Industrial Research) https://www.airi.it/ and as CNR representative in the Board of Directors of NANOTEC-IT (2002-2010)

CNR-DPM-Head of the National strategic project "Nano-organized systems with electronic, photonic and magnetic properties" (2001-2012)

Synergistic Activities

1. Innovative society learning and education in a frame of the KIC-EIT action on Raw Materials. For info of the all action see the website https://rmschools.isof.cnr.it/about.html
2. The activities of the CNR Emilia Romagna Region Technopole AMBIMAT focused on the technology transfer and know-how sharing with industrial partners for innovation. Details on the websites https://tecnopolo.bo.cnr.it/ ; http://www.laboratoriomister.it/en/; https://www.consorzioproambiente.it/en/
3. Proactive and participation to international projects and activities in particular in a broaden consortia and action of the AFOSR Quantum Biology program.
4. The activities on the PNRR National Program, namely Ecosyster, and I-Matt.