

Europass Curriculum Vitae



Personal information

First name / Surname

Roberto Zamboni

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Nationality

Italian

Date of birth

17/04/1956

Gender

male

Position

Director of Istituto per la Sintesi Organica e la Fotoreattività (ISOF) of Consiglio Nazionale delle Ricerche (CNR)

Work experience

Roberto Zamboni is a staff Research Director of CNR and has been appointed to the CNR Department of Molecular Design as Project Head of “nano-organized systems with electronic, photonic and magnetic properties”. During the past 10 years, he has been coordinator and responsible of CNR Research Unit of a variety of EU projects in strategic topics related to exploitation of organic systems and hybrid technologies for advanced high tech areas. In the activity at the CNR he has been responsible and coordinator of national PF and PS projects. He has participated as organizer and chair of several Conference and workshops. Since 2001 he collaborates to ASTER (the Agency for Technology Transfer of the Emilia-Romagna Region) and since 2005 he is member of the CTS of ASTER; since 2002 he collaborate to AIRI (Italian Agency for the Industrial Research) as CNR representative in the CD of NANOTEC-IT. Since 2009 he is representative of CNR in the Board of Directors of MIST ER Scral. Since 2010 he is the CNR representative into the Board of Directors of ASTER SpA. He is active as EU evaluator and he has been evaluator of

Regional PMI projects of Emilia-Romagna Region and Veneto Region and of the Ministero delle Attività Produttive, legge 46/82. He has been invited as a speaker to several tens of international conferences and he is author of more than 170 publications on international peer reviewed journals, peer reviewed proceeding and books (cited more than 3800; actual h-index: 36). 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 experimental techniques at the base of the scientific activity of Roberto Zamboni.

His interests on conjugated electroactive and photoactive thin film growth were the starting point for the design and fabrication of high vacuum (1989-90) and ultra-high vacuum organic molecular beam deposition systems, OMDB (1992-94).

Expertise with those systems 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). The mentioned devices are characterized by nanoscale dimensionality.

This has been the starting point for the development of new optical nanoprobe enabling measuring and imaging at the nanoscale of optical observables, such as luminescence resolved in time, space and energy. With such innovative systems, he has been able to contribute to shine light on correlation between structural and morphology properties of nano-organized systems and their own electronic and photonic properties at the nanoscale. Recently the major scientific interest is focused in developing hybrid biofunctional-biooptronics systems and living technologies based onto a disruptive silk-based technological platform.

Education and professional training

University of Bologna, Doctor in Physics, 1980

Advanced School of Physics-University of Modena, 1981

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, 1988-1989

University of Marburg (Germany), Prof. H. Baessler, Associated Fellow at the Department of Physical Chemistry, May-June, 1996

Professional appointments and career

1985-1999 Consiglio Nazionale delle Ricerche, Scientific Researcher

1999-2006 Consiglio Nazionale delle Ricerche; Senior Scientific Researcher

2006- present Consiglio Nazionale delle Ricerche; Research Director

2002- 2012 Consiglio Nazionale delle Ricerche; DPM-Head of the National strategic project “Nano-organized systems with electronic, photonic and magnetic properties”

2009 Head of the CNR-ISMN Bologna Unit

2010 -present from August 1st 2010 Director of the CNR Institute of Organic Synthesis and Photoreactivity (ISOF)

2010-present

Head of the Emilia-Romagna Region-CNR
Technopole "Ambimat"

2012-present

Fellow of SPIE

2015-present

from April 16th 2015 President of the CNR
Research Area in Bologna

Mother tongue

Italian