

ELISA MOLINARI

CV & POSITIONS

- 2001- Full Professor, Department of Physics, University of Modena and Reggio Emilia (now renamed Department of Physics, Informatics and Mathematics)
- 2007-2009 Director of INFM-CNR (Istituto Nazionale per la Fisica della Materia del CNR), comprising 21 Research Centers in Italy
- 1992-2001 Associate Professor, University of Modena
- 1985-1992 Research staff member, Istituto “Corbino” of CNR, Roma
- 1983-1985 Post-doctoral scientist, Max-Planck-Institut für Festkörperforschung, in Stuttgart and Grenoble (High-Magnetic-Field Laboratory)
- 1981-1983 Post-lauream fellow (supported by an industry) at the University of Modena
- 1981 Laurea *cum laude* in Physics, University of Modena

SELECTED SCIENTIFIC AND PROFESSIONAL ACTIVITIES

- 2015- MaX European Center of Excellence in Materials Modelling, Simulation and Design (EU E-INFRA, starting Sept 2015): Director;
- 2015- Max-Planck Gesellschaft: Fritz-Haber-Institute Berlin, and Max-Planck Institute for the Structure and Dynamics of Matter, Hamburg, Member of the Scientific Boards;
- 2014- European Synchrotron Radiation Facility - ESRF, Grenoble: Council Member, Head of Italian Delegation;
- 2010- Helmholtz Association: Program on Nano and Microsystems, and Karlsruhe Institute of Technology (KIT): Member of the External Advisory Board;
- 2010- CINECA & Italian Supercomputing Resource Allocation - ISCRA: Member of the Scientific Board;
- 2014- Scientific Reports, Nature Publishing Group: Member of the Editorial Board
- 2014- EU Program Committee “Nanotechnologies, Advanced materials, Biotechnology, Advanced manufacturing and processing” (NMBP) within Horizon2020: Expert Member, Italian Delegation;
- 2007-2014 EU Program Committee “Cooperation: Nano-, Materials, Production Systems” (NMP) within the 7th Framework Program: Member and Head of Italian Delegation;
- 2011-2014 Emilia-Romagna Region High Technology Network: Chair of the Steering Board;
- 2009-2011 EU European Research Council (ERC): Member AdG Evaluation Panels;
- 2007-2014 OECD Working Party on Nanotechnology, Member;
- 2003-2012 Science Festival, Genova: Member of the Scientific Board;
- 2002-2007 S3 Research Center of Istituto Nazionale per la Fisica della Materia (INFM), Modena: Director;
- 2006-2007 EU Advisory Group on “Nanosciences, Nanotechnologies, Materials and New Production Materials” within the 7th Framework Program: Member;
- 2002-2003 IUPAP - International Union of Pure and Applied Physics: Associate Secretary General; and member of the IUPAP Working Group on Women in Physics;
- 1999-2002 IUPAP: Scientific Secretary, Semiconductor Commission;
- 1990-2008 Solid State Communications, Elsevier: Member of the Editorial Board.

RESEARCH

Her main research interests are in computational nanoscience. She has been particularly active in the theory of fundamental properties of low-dimensional structures –especially few-electron and electron-phonon interactions, excitations and dynamics—, in the simulation of advanced nano-bio systems and devices, and in the advancement of related computational methods. She has a continuing interest also in scientific imaging and communication. Coordinator of several European and international projects in these fields.

Invited speaker in more than 150 conferences and workshops. Among these e.g. the Annual Meeting of the American Chemical Society, the Internat. Conference on the Physics of Semiconductors, the March Meeting of the Condensed Matter Division of the American Physical Society, the March Meeting of the Condensed Matter Division of the German Physical Society, the Spring Meeting of the Materials Research Society, the European Conference on Surface Science. Chair of numerous international workshops/conferences/schools, and member of Program/Advisory Committees of the main conferences in her research field.

Fellow of the American Physical Society, Member of the Italian and European Physical Societies.

Over 250 papers in leading international journals. Hirsch Index: 44 (ISI Web of Science 2014).