

## ELISA MOLINARI

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### POSITIONS

- 2001-present Full Professor, Physics Department, University of Modena and Reggio Emilia
- 2002-present Head, S3 Research Center of INFN-CNR, Modena; since 2010 part of Istituto Nanoscienze CNR (www.nano.cnr.it)
- 2007-2009 Director of INFN-CNR (Istituto Nazionale per la Fisica della Materia del CNR), comprising 21 Research Centers in Italy
- 1992-2001 Associate Professor, Università di Modena
- 1985-1992 Research staff member, Istituto “Corbino” of CNR, Roma
- 1983-1985 Post-doctoral scientist at Max-Planck-Institut für Festkörperforschung: Stuttgart, Germany and Grenoble (High-Magnetic-Field Laboratory), France
- 1981-1983 Post-lauream fellow (supported by an industry) at the University of Modena, Italy
- 1981 Laurea cum Laude in Physics, University of Modena

### SELECTED SCIENTIFIC AND PROFESSIONAL ACTIVITIES

- 2007-present National Delegate Panel “Cooperation: Nano-, Materials, Production Systems” (NMP), EU FP7;
- 2009-present Member, Scientific Evaluation Panel of the European Research Council (ERC-2009&2011-AdG);
- 2011-present Chair, Scientific and Industrial Steering Board of ASTER & Emilia-Romagna Regional High Technology Network (www.aster.it);
- 2007-present Member, OECD Working Party on Nanotechnology;
- 2010-present Member, Scientific Board of CINECA & Italian SuperComputing Resource Allocation;
- 2003-present Member, Scientific Board of Science Festival, Genova;
- 2006-2007 Member, designated by EU Commissioner, of the Advisory Group on Nanosciences, Nanotechnologies, Materials and New Production Materials of EU-FP7;
- 2002-2003 Associate Secretary General of the International Union of Pure and Applied Physics (IUPAP); member of the IUPAP Working Group on Women in Physics;
- 1999-2002 Scientific Secretary, IUPAP Semiconductor Commission;
- 1990-2008 Member of the Editorial Board, Solid State Communications.

Within the University of Modena and Reggio Emilia along the years: member of Consiglio di Amministrazione; member of Senato Accademico; member of Commissione Permanente Affari Costituzionali; delegate for international affairs; coordinator the PhD program in ‘Nano- and Physical Sciences’.

*Fellow* of the American Physical Society (APS), nominated in 1999 “for her contribution to the theory of semiconductors and their interfaces, in particular, her fundamental work on electron-electron and electron-phonon interaction in nanostructures; and for her involvement in the training of young theorists from many countries and the organization of international conferences.”

### RESEARCH

Her main research interests are in nanoscience and nano(bio)technologies. She has been particularly active in the theory of fundamental properties of low-dimensional structures, in the simulation of advanced nanodevices, in the development of related computational methods. She has a continuing interest also in scientific imaging and communication.

Invited speaker at more than 100 conferences and workshops. Among these are the most relevant conferences in her field, including e.g. the Annual Meeting of the American Chemical Society (ACS), the Internat. Conference on the Physics of Semiconductors, the March Meeting of the Condensed Matter Division of the American Physical Society (APS), the March Meeting of the Condensed Matter Division of the German Physical Society, the Spring Meeting of the Materials Research Society (MRS), the European Conference on Surface Science (ECOSS). Chair of numerous international workshops/conferences/schools. Member of Program/Advisory Committees of the main conferences in her research field.

Elisa Molinari has published over 220 papers in leading international journals. Hirsch Index: 40 (ISI Web of Science, November 2011).