

Elisa Molinari

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CV

- 2001 – now Full Professor, Physics of Matter, University of Modena and Reggio Emilia (Unimore)
- 2010 – now Research Associate, Istituto Nanoscienze, Consiglio Nazionale delle Ricerche (Cnr), Modena, Italy
- 2015 – now Director, MaX European Centre of Excellence for HPC Applications “Materials design at the exascale”, www.max-centre.eu
- 2007– 2010 Director, Istituto Nazionale per la Fisica della Materia (Infm) of Cnr, Italy
- 2002 – 2010 Director, Research Centre S3 of Infm-Cnr, Modena, Italy
- 1992 – 2001 Associate Professor, Department of Physics, University of Modena, Italy
- 1986 – 1992 Research staff member, Cnr - Istituto 'Corbino', Roma, Italy
- 1983 – 1985 Post doctoral associate, Max-Planck-Institut für Festkörperforschung: Stuttgart, Germany; and Grenoble (High-Magnetic-Field Laboratory), France
- 1981 'Laurea' *cum laude* in Physics; Physics Department, University of Modena, Italy

Research profile

The research of Professor Molinari is centered on frontier studies of materials through first-principles computational and theoretical approaches. The main topics include: quantum phenomena and interactions in nano(bio)systems; ultrafast and coherence effects in natural and artificial photosynthetic and photovoltaic materials; advancing computational spectroscopies and materials design.

Invited/keynote presentations in the main international conferences; over 280 publications in leading international journals (over 14000 citations, h-index: 65 - GScholar). Researcher ID: E-8834-2010 ORCID: 0000-0002-0692-6096; [publication list](#).

Scientific Boards and other Professional Activities (selected)

- 2023 – now Scientific Advisory Board, ICN2 Catalan Institute for Nanoscience and Nanotechnology
 - 2023 – now Advisory Group of the Swedish e-Science research center
 - 2016 – 2021 Scientific Advisory Board, Fritz-Haber Institut of the Max-Planck Society, Berlin
 - 2016 – 2020: Scientific Advisory Board, Max-Planck Institut for the Structure and Dynamics of Matter, Hamburg
 - 2023 – now: Scientific Board, Cnr - Department of Physical Sciences and Technology of Matter
 - 2019 – 2022: Research and Innovation Advisory Group of the EuroHPC Joint Undertaking
 - 2006 – now: Scientific Council, PhD Course on Nanoscience and Nanotechnology, Unimore
 - 2014 – now: Council, ESRF European Synchrotron Radiation Facility, Grenoble; Head of Italian Delegation
 - 2018 – now: Board of Directors, Associazione Big Data, Italy
 - 2020 – now: Board of Trustees, Psi-k European scientific network
 - 2017 – 2021: Executive committee, Forum for International Physics, American Physical Society
 - 2017 – 2021: Executive board, Associazione Donne e Scienza, Italy
 - 2010 – 2016: Scientific Advisory Board, CINECA, Italy
 - 2011 – 2014: Chair, Steering Board of Emilia-Romagna Region High Technology Network
 - 2007 – 2014: OECD Working Party on Nanotechnology
 - 2007 – 2013: EU FP7 Program Committee Nano-, Materials, Production Systems (NMP): Head Italian Delegation
 - 2009 – 2011: ERC AdG Evaluation Panel
 - 2003 – 2012: Scientific Board of Science Festival, Genova
 - 2002 – 2003: Associate Secretary General, International Union of Pure and Applied Physics (IUPAP); IUPAP Working Group on Women in Physics
 - 1999 – 2002: Scientific Secretary, IUPAP Semiconductor Commission
- Fellow of the American Physical Society (APS), member of the Italian and European Physical Societies