

Adriana Pietropaolo

Associate Professor

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Catanzaro, Italy

EDUCATION:

PhD in Chemical Sciences

University of Bologna, Italy

MSc in Chemistry

University of Catania, Italy

Research Experience:

Visiting Professor: Université Paris Cité (scheduled for June 2025), Hokkaido University (2012, 2013), Forschungszentrum Jülich (2011).

Postdoctoral Researcher: ETH-Zurich (2008-2010), University of Catania (2010). International funding and recognitions from the Heiwa Nakajima Foundation and HPC-Europa2.

Research interest:

i) Development of chiral simulation methods and protocols to boost the design of luminescent chiral materials.

ii) Design and predictions of luminescent chiral hybrid and organic materials for the implementation of circularly polarized lamps for their use in imaging and diagnostics.

iii) Computational platform of sustainable chiral hybrid materials.

PROFESSIONAL PROFILE:

Adriana Pietropaolo is Associate Professor - SSD CHEM-03/A at the University 'Magna Græcia' of Catanzaro. The research lines are focused on Theoretical and Computational Chemistry of molecular and chiral nanomaterials. Her academic career is distinguished by high-impact contributions to international journals such as Nature Methods, JACS, Angewandte Chemie, as well as awards including the International Chemistry Prize "Raffaele Piria" in 2015.

She is an active member of the International Advisory Board of Chirality@Nanoscale and the Plumed consortium. She is an invited speaker and session chair at major international conferences, including Matsus, Chirality@Nanoscale, Esax 2024, EuChemS.

GRANTS AND PROJECTS:

- National Coordinator of PRIN 2022 (190kEuro).
- Research unit PI in various PRIN (2022PNRR, 2017, 2015), PON and National Centre HPC, Big Data and Quantum Computing projects, with total funding exceeding 400kEuro.
- Principal Investigator in numerous international supercomputing projects, including the Partnership for Advancing Computing in Europe (PRACE), with access to over 39M core hours.
- Principal Investigator in national supercomputing projects (ISCRA) with access to over 15M core hours, using resources such as Leonardo, Marconi100, Fermi, Galileo, Galileo100, Eurora.

INSTITUTIONAL ACTIVITIES:

- Member of the Research Committee of the Department of Health Sciences.
- Member of the Ph.D. Academic Board in Life Sciences.
- Reviewer for ERC Consolidator Grant, MUR, and CINECA projects.
- Member of the Evaluation Experts Group (GEV) for the VQR 2015-2019 (Area 03 - Chemical Sciences).

Teaching Activity

- General and Inorganic Chemistry, Degree Course in Pharmacy (8 CFU).
- Introduction to Chemistry – General and Inorganic Chemistry Module, Degree Course in Biotechnology (12 CFU).
- Elements of Bioinorganic Chemistry, Degree Course in Pharmacy (4 CFU).
- Elements of Bioinorganic Chemistry, Doctoral School in "Life Sciences and Technologies" (1 CFU).