



Valeria Iacomini

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WORK EXPERIENCE

📍 – Italy

PhD in Physics and Nanosciences (XL cycle)

[01/11/2024 – Current]

- Thesis Title: Chirality induced spin selectivity in molecular materials
- Supervisor: Prof. Andrea Cornia
- Co-supervisors: Prof. Francesco Tassinari e Dr. Alessio Nicolini

Department of Physics, Informatics and Mathematics, University of Modena and Reggio Emilia, Via Giuseppe Campi 213/A, Modena MO and Department of Chemical and Geological Sciences, University of Modena and Reggio Emilia, Via Giuseppe Campi 103, Modena MO

📍 – Italy

Research Fellowship - (CODE 2023-ADRJ271)

[16/02/2024 – 31/10/2024]

- Project Title: Chiral Coordination Polymers for Energy Applications (CHICOPEA)
- Principal Investigator: Prof. Francesco Tassinari
- Scientific Supervisor: Prof. Andrea Cornia
- Main activities: Synthesis of metal-organic frameworks (MOFs) containing transition metals and inorganic synthesis. Characterization of synthesized materials using techniques including powder X-ray diffraction (PXRD), FTIR spectroscopy, UV-Vis spectroscopy, and atomic absorption spectroscopy (AAS).

Department of Chemical and Geological Sciences, University of Modena and Reggio Emilia, Via Giuseppe Campi 103, Modena MO

📍 – Italy

Master Student Trainee in collaboration with ENI Versalis

[04/10/2021 – 20/10/2023]

- Activities and skills acquired: Organic synthesis and purification of polydentate ligands. Synthesis of organometallic complexes containing paramagnetic metals, highly sensitive to oxygen and moisture and unstable at room temperature. Design and optimization of innovative experimental techniques for conducting reactions under inert atmosphere at temperatures down to -80°C , using a modified glovebox equipped with a "cold finger" cryostat. Characterization of the synthesized compounds by NMR spectroscopy (^1H , ^7Li , ^{19}F , ^{31}P) of both diamagnetic and paramagnetic samples; single-crystal X-ray diffraction (data collection and reduction, structure solution and refinement); optical emission spectroscopy (ICP-OES).
- Scientific Supervisor: Prof. Andrea Cornia

Department of Chemical and Geological Sciences, University of Modena and Reggio Emilia, Via Giuseppe Campi 103, Modena MO

Research Fellowship

[14/09/2020 – 13/03/2021]

- Main activities: Use of analytical techniques, including XRD, GC, ICP, SPME, and IR spectroscopy, together with the corresponding sample preparation procedures. Formulation of cement-based adhesives and performance testing for quality control purposes. Formulation of two-component epoxy-based sealants and adhesives.
- Project Title: BIOLEGANTI IBRIDI - Progettazione e sviluppo di materiali polimerici organici, destinati alla formulazione di materiali leganti innovativi, VOCs-free, ecocompatibili, sicuri per la salute e per l'ambiente – caratterizzazione dei materiali
- Scientific Supervisors: Prof. Lorenzo Tassi and Dr. Fabrizio Roncaglia
- Host Organization: Litokol S.p.A., Via Giovanni Falcone 13/1, 42048 Rubiera (RE), Italy

Department of Chemical and Geological Sciences, University of Modena and Reggio Emilia, Via Giuseppe Campi 103, Modena MO

Bachelor Student Trainee

[03/06/2019 – 09/08/2019]

- Main activities: GC-MS analysis, various volumetric titration techniques, and extensive use of UV-Vis-NIR spectrophotometry.
- Scientific Supervisor: Dr. Domenico Giovini

Chemicalab Laboratorio Analisi Chimiche Del Dr. Giovini Domenico Srl, Via G. Fucà, 144, Modena MO

EDUCATION AND TRAINING

Master Degree in Chemical Sciences LM-54, FINAL GRADE: 110/110 CUM LAUDE

University of Modena and Reggio Emilia [20/10/2023]

City: Modena | Country: Italy

Titolo progetto: Catalizzatori organometallici a base di 2,6-bis(immino)piridine: studi sintetici e strategie di “scale up”

Relatore: Andrea Cornia

Correlatori: Alessio Nicolini, Manuel Imperato

Controrelatore: Fabrizio Roncaglia

Bachelor Degree in Chemistry L-27, FINAL GRADE: 107/110

Università of Modena and Reggio Emilia [20/09/2019]

City: Modena | Country: Italy

Titolo progetto: Messa a punto di una procedura per la determinazione in GC-MS di idrocarburi in campioni di suolo

Tutor: Marina Cocchi e Dr. Domenico Giovini

High School Scientific Diploma, FINAL GRADE: 88/100

IIS A. Zanelli - Applied Sciences Program [09/2011 – 06/2016]

City: Reggio Emilia | Country: Italy

PUBLICATIONS

[2025]

Metal Hydroxide Organic Frameworks (MHOFs) for Oxygen Evolution by Intercalation of Dicarboxylate

Linkers Into β -Ni(OH)₂: Impact of Host Crystallinity Alessio Nicolini, Martina Campi, Valeria Iacomini, Andrea Cornia, Lara Gigli, Adele Mucci, Ilargi Napal Azcona, Silvia Nappini, Elena Magnano, Simone Pollastri, Roberto Biagi, Marco Borsari, Francesco Tassinari, *ChemCatChem*, **2025**, 17, e00931

CONFERENCES, WORKSHOPS AND SCHOOLS CONTRIBUTION

[17/08/2026 – 20/08/2026]

10th European Conference on Molecular Magnetism (ECMM 2026)

The European Institute of Molecular Magnetism, University of Copenhagen, Copenhagen (Denmark)

Poster Title: *CHIRAL PENTACHROMIUM(II) EXTENDED METAL ATOM CHAINS ON SURFACES* ([Valeria Iacomini](#), Irene Franchi, Francesco Parmeggiani, Alessio Nicolini, Matteo Mannini, Francesco Tassinari, Andrea Cornia)

[18/12/2025]

XXIV Giornata della Chimica dell'Emilia Romagna 2025 (24th Chemistry Day of Emilia-Romagna 2025)

Department of Chemical, Pharmaceutical and Agricultural Sciences, University of Ferrara (Italy)

Poster Title: *CHIRAL NICKEL(II) METAL-ORGANIC FRAMEWORKS (MOFS) AS SPIN-SELECTIVE CATALYSTS* ([Valeria Iacomini](#), Alessio Nicolini, Martina Campi, Roberto Biagi, Marco Borsari, Adele Mucci, Anu Gupta, Ron Naaman, Andrea Cornia, Francesco Tassinari)

[26/10/2025 – 31/10/2025]

19th International Conference on Molecular Magnetism (ICMM2025)

Université de Bordeaux, Bordeaux (France)

Poster Title: *Cobalt-based Metal-Organic Frameworks (MOFs) as spin-selective catalysts* ([Valeria Iacomini](#), Alessio Nicolini, Martina Campi, Roberto Biagi, Marco Borsari, Adele Mucci, Anu Gupta, Ron Naaman, Andrea Cornia, Francesco Tassinari)

[18/05/2025 – 23/06/2025]

18th European School on Molecular Nanoscience (ESMolNa2025)

Institute of Molecular Science- ICMol, Universitat de València, Santa Pola (Alicante, Spain)

Presentation Title: *Chiral Metal-Hydroxide Organic Frameworks For Water Splitting Applications* ([Valeria Iacomini](#), Alessio Nicolini, Martina Campi, Roberto Biagi, Marco Borsari, Adele Mucci, Anu Gupta, Ron Naaman, Andrea Cornia, Francesco Tassinari)

[19/12/2024]

XXIII Giornata della Chimica dell'Emilia Romagna 2024 (23th Chemistry Day of Emilia-Romagna 2024)

Department of Chemical and Geological Sciences, University of Modena and Reggio Emilia (Italy)

Poster Title: *Chiral Metal-Hydroxide Organic Frameworks for energy applications* ([Valeria Iacomini](#), Alessio Nicolini, Martina Campi, Roberto Biagi, Marco Borsari, Adele Mucci, Andrea Cornia, Francesco Tassinari)

[12/11/2024 – 14/11/2024]

Workshop on Chirality Spin and Reactivity

International Solvay Institutes, Brussels (Belgium)

Poster Title: *Chiral Co-based Metal-Hydroxide Organic Frameworks for Water Splitting applications* ([Valeria Iacomini](#), Alessio Nicolini, Martina Campi, Roberto Biagi, Marco Borsari, Adele Mucci, Andrea Cornia, Francesco Tassinari)

[18/12/2023]

XXII Giornata della Chimica dell'Emilia Romagna 2023 (22th Chemistry Day of Emilia-Romagna 2023)

Department of Chemistry, Life Sciences and Environmental Sustainability, University of Parma (Italy)

Poster Title: *2,6-diiminopyridine-based organometallic catalysts: synthetic studies and "scale-up" strategies* ([Valeria Iacomini](#), [Simone Stampatori](#), Nassima Yamini, Alessio Nicolini, Manuel Imperato, Francesca Parenti, Andrea Cornia, Giuliano Fisaletti, Angelo Ferrando)

TUTORING

[03/2025 – 06/2025]

Organic Chemistry II (Fondo Sostegno Giovani)

Course Details

- Total number of hours: 35
- Activity: provided support during teaching laboratory sessions and classroom exercises on structural identification using NMR and IR spectroscopy
- Chemistry bachelor's degree program (L-27)
- Supervisor: Adele Mucci

[03/2025 – 05/2025]

Advanced Inorganic Chemistry Laboratory

Course Details

- Total number of hours: 20
- Activity: provided support during teaching laboratory sessions
- Chemical Sciences Master's degree program (LM-54)
- Supervisor: Andrea Cornia

MASTER'S THESIS CO-SUPERVISOR – UNIVERSITY OF MODENA AND REGGIO EMILIA (UNIMORE)

[19/07/2024]

Sofia Viviani – MSc in Chemical Sciences (110/110 cum laude)

Supervisors: Dr. Alessio Nicolini and Prof. Marco Borsari; Co-supervisor: Martina Campi; Thesis Title: Synthesis, Characterization and Electrochemical Properties of Cobalt-Based Metal-Hydroxide Organic Frameworks (MHOs)

LANGUAGE SKILLS

Mother tongue(s): Italian

Other language(s):

Inglese (Placement UniMORE)

LISTENING B2 READING B2 WRITING B2

SPOKEN PRODUCTION B2 SPOKEN INTERACTION B2

DRIVING LICENCE

Driving Licence: B