

QUALIFICATION **Ph.D. Chemistry And Advanced Chemical Methodologies****PROFESSIONAL EXPERIENCES**

15/05/2024 – ongoing

Post-doctoral position

Consiglio Nazionale delle Ricerche (CNR)
Via Giuseppe Moruzzi, 56124 Pisa.

LMPE srl SB
Via Nuova, 44a, 55018 Capannori (LU).

University of Pisa
Via Giuseppe Moruzzi, 13 - 56124 Pisa

- Istituto di Nanoscienze (NANO)
- Research Program Title: Materiali Polimerici Biodegradabili a Basso Impatto Ambientale
- Duration: 1 year
- Tutor: Prof. Antonella Battisti, Prof. Dario Puppi, Dott. Tommaso Guazzini

15/04/2023 – 15/04/2024

Post-doctoral position

University of Urbino "Carlo Bo"
Via della Stazione 4, 61029 Urbino (Italy)

- Pagina personale: <https://www.uniurb.it/persone/roberto-giacomantonio>
- Department of Pure and Applied Sciences (DiSPeA)
- Research Program Title: Application of the Microbiocalcification Process for the Production of Building Materials
- Duration: 1 year
- Tutor: Prof. Simone Galeotti

Activity or Sector: Course sector: 04/A2 – Structural geology, stratigraphic geology sedimentology and paleontology, 03/B1 – Foundation of chemical sciences and inorganic systems
Scientific-Disciplinary Sector: CHIM/03 – General and inorganic chemistry

11/2019 – 04/2023

Ph.D.

University of Camerino
Via Madonna delle Carceri (snc), 61032 Camerino (Italy)

- Study of additives and polymer matrix material functionalization procedures
- Scientific-Disciplinary Sector: CHIM/06
- Duration: 3 years

Activity or Sector: School of Science and Technology, Chemistry division, XXXV cycle

03/2022 – 09/2022

Visiting Ph.D. Student

KTH Royal Institute of Technology, Stockholm (Sweden)
Department of Fibre and Polymer Technology

- Duration: 6 months

Activity or Sector: School of Engineering Science in Chemistry, Biotechnology and Health

11/2021 – 02/2022

Teaching Support

University of Camerino

- Scientific-Disciplinary Sector: CHIM/03 – General and inorganic chemistry
- Degree course: Geology

- Duration: 40 ore
- **Activity or Sector:** Scientific-Disciplinary Sector: CHIM/03

04/2019 – 12/2019 **Research Activity Grant**

University of Camerino

Via sant'Agostino 4, 62032 Camerino (Italy)

- Chemical analysis of the materials used by iGuzzini-illuminazione in the world of lighting with LED sources to improve durability and to have lower environmental impact
- Duration: 8 months
- **Activity or Sector:** Scientific-Disciplinary Sector: CHIM/06

FORMATION

12/2019 – 04/2023 **Ph.D. in Chemistry and Advance Chemical Methodologies**

University of Camerino (Italy)

Chemical and Pharmaceutical Sciences and Biotechnologies

- Thesis title: Development of Innovative Polymer Matrix Materials: The Role of Polymer Functionalization and Additives
- Scientific-Disciplinary Sector: CHIM/06
- Tutor: Enrico Marcantoni; Co-tutor: Serena Gabrielli

12/2015 – 02/2018 **Master Degree (LM-54) in Chemistry and Advanced Chemical Methodologies**

University of Camerino

Chemistry Division

School of Sciences and Technologies

- Thesis Title: Phthalocynine Materials as Efficient (Photo)catalysts in Oxidation Reactions
- Scientific-Disciplinary Sector: CHIM/03
- Tutor: Joao Tomè; Co-tutor: Corrado Bacchiocchi

09/2016 – 09/2017 **Double Degree in Chemistry**

Instituto Superior Técnico (IST), Lisbon (Portugal)

Centro de Química Estrutural (CQE)

- Thesis Title: Phthalocynine Materials as Efficient (Photo)catalysts in Oxidation Reactions
- Scientific-Disciplinary Sector: CHIM/03
- Tutor: Joao Tomè; Co-tutor: Corrado Bacchiocchi

12/2012 – 12/2015 **Beachelor Degree (LM-27) in Chemistry and Advanced Chemical Methodologies**

University of Camerino

Chemistry Division

School of Sciences and Technologies

- Thesis Title: Analytical Methodologies applied for the Study of Chemical Elements in Complex Matrices

PERSONAL SKILLS

Mother tongue Italian

Other languages

COMPREHENSION	SPOKEN	WRITTEN
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	Listening	reading	Interaction	Oral	
English	B2	B2	B2	B2	B2

- Communication skills**
- Passion and experience in exhibiting works, project and individual or collective lessons, in person or remotely
 - Good ability to adapt to multicultural environments

- Organizational and management skills**
- Good experience in preparing individual or group lessons, in person or remotely
 - Ability to organize, manage and complete research projects, in groups or individually, within the established period of time
 - Problem solving

- Professional skills**
- Organic synthesis and purification of organic compounds (chromatography, distillation, extraction, crystallization and sublimation)
 - ¹H-NMR, ¹³C-NMR, HPLC-MS, GC, GC-MS, HPLC, FTIR, UV-Vis Spectroscopy, Fluorescence spectroscopy, DSC, TGA, SEM, Dinamometer, plastograph.
 - Knowledge of the main techniques for recognizing organic compounds
 - Knowledge of the main qualitative/quantitative analysis techniques

Digital skills

SELF EVALUATION				
Information evaluation	communication	Content creation	Safety	Troubleshooting
Expert user	Expert user	Expert user	Expert user	Expert user

Basic computer skills

- Operating systems: Excellent
- Text processing: Excellent
- Spreadsheet: Excellent

Application and Programs known

- Good programs knowledge: MestReNova, TopSpin, ChemWindow, LabSolutions IR, OriginPro, HySS
- Good knowledge of: ChemOffice: ChemDraw, Chem3D, ChemFinder
- Excellent knowledge of scientific databases such as: PubMed, Scifinder, Scopus, Web of Science
- Excellent knowledge of Microsoft 365: Word, Powerpoint, Excel

Driver License B | Car owner

Additional Information

Groups membership / Committee Member of the local organizing committee of the congress **International Symposium on Metal Complexes ISMEC 2023**, Urbino 11-14 June 2023

Poster and Oral Communications “**XXVII Congresso Nazionale della Società Chimica Italiana**”, titled: Spot-like yellowing issues of illumination products due to migration effects – poster presentation

“**ECHC 2021**”, titled: USEFULNESS OF GRAPHENE OXIDE IN BRØNSTED CATALYZED PICTET-SPENGLER REACTION UNDER MICROWAVE IRRADIATION – poster presentation

“**EPF Summer School 2021**”, titled: Study of a new non-toxic and eco-sustainable catalytic system for the synthesis of PLA – poster presentation

“**MIPOL 2022**”, titled: Heterogeneous catalyzed synthesis of bio-based poly(urethane-acrylate) poster presentation

«**XL CDCO 2022**» with the title: Development of Functionalized Packaging Materials – oral communication

- Publications
- 3) **Frontiers in Chemistry**, 2023, 11, 1234763 | [doi:10.3389/fchem.2023.1234763](https://doi.org/10.3389/fchem.2023.1234763)
 - 2) **Results in Materials** 2022, 15, 100294 | [doi:10.1016/j.rinma.2022.100294](https://doi.org/10.1016/j.rinma.2022.100294)
 - 1) **Molecules** 2021, 26, 6271 | [doi:10.3390/molecules26206271](https://doi.org/10.3390/molecules26206271)