NABIL MROWEH

CONTACT ME AT

Nationality: French

SOFT SKILLS

- Teamwork
- Adaptability
- Public speaking
- Problem solving

TECHNICAL SKILLS

- Multi-steps organic synthesis
- Handling air sensitive compounds (Schlenk techniques, glove box)
- Compound purifications techniques
- NMR "1D and 2D" (^{1}H, ^{13}C, DEPT, HSQC, HMBC, DOSY)
- Mass spectrometry, IR and UV-Vis spectroscopy
- HPLC purification
- Electrocrystallization
- Electrochemistry
- Single-crystal XRD
- Writing scientific articles
- Students' supervision
- Internship students supervision.

PERSONAL PROFILE

I am an experienced chemist with advanced knowledge in organic chemistry. My proficiency lies in the Design, synthesis and characterization of molecules, contributing to the successful execution of various research projects. I am deeply passionate about research and am committed to continuous learning. When faced with new challenges, tasks, and projects, I draw upon my scientific background and analytical skills to effectively meet objectives.

WORK EXPERIENCE

Post doc in bioactive materials and enzyme inhibitors for medical use
University of Florence, Florence, Italy 10/2024 - present

- Planning and developing synthesis of several inhibitors for cancer therapy.
- Performing the analytical characterization ensuring highly quality materials.
- Enzyme inhibition measurements for the prepared materials.

Postdoc in dye materials for bioimaging applications
SUTD/NTU, Singapore, 01/2023 - 10/2023

- Designed several development approaches of dye fluorescent conjugated molecules for bioimaging and medical applications.
- Prepared and executed material synthesis and analytical characterization.

Postdoc in molecular photoelectrochemical devices for H_2 production
Solhycat team, LCBM/CEA, Grenoble, France, 09/2020- 12/2022

- Planned and developed synthesis of several Ru-Complexes for H_2 gas production.
- Performed and analyzed photophysical properties to ensure high-quality materials.

Doctoral research in chiral conducting molecular materials
CIMI group, Moltech Anjou laboratory, Angers, France, 12/2015 -12/2019

- Planned and conducted the synthesis of chiral conducting compounds for advanced materials and electronics.
- investigated the relationship between molecular chirality and charge transport to develop materials with enhanced conductivity and spintronic properties.

EDUCATION

- PhD in Organic Chemistry**,** Université d'Angers/Moltech Anjou Laboratory-CIMI Group, Angers–FRANCE | 12/2015 - 07/2019
- Master 2 (Synthesis, Catalysis, and Sustainable Chemistry). Université Claude Bernard Lyon 1. Lyon - FRANCE| 2014-2015
- Master 1 in Analytical Chemistry. Lebanese University, faculty of sciences. Beirut - LEBANON | 2012-2013
- Bachelor's degree in general chemistry. Lebanese University, faculty of sciences. Beirut - LEBANON| 2009-2012

LANGUAGES

English

Arabic

French

Italian

IT: MS Office "Word, Excel, PowerPoint", Mestrenova, Topspin, ChemDraw, Wingx, Diamond, Sigma plot, Scifinder

REFERENCES

- **Dr. Narcis Avarvari**
- **Dr. Murielle Kerlidou-Chavarot**
- **Dr. Xiaogang Liu**

PUBLICATIONS

- N. Mroweh, P. Auban-Senzier, N. Vanthuyne, E. Canadell, N. Avarvari, *J. Mater. Chem*. C **2019**, *7*, 12664
- N. Mroweh, F. Pop, C. Mézière, M. Allain, P. Auban-Senzier, P. Alemany, E. Canadell, N. Avarvari, 2019, *Cryst. Growth Des*. **2020**. *20*, *4*, 2516-2526
- N. Mroweh, C. Mézière, F. Pop, P. Auban-Senzier, P. Alemany, E. Canadell, N. Avarvari, *Adv. Mater*. **2020**, 2002811
- N. Mroweh, C. Mézière, M. Allain, P. Auban-Senzier, E. Canadell, N. Avarvari, 2019, *Chem Sci.* **2020**, *11(37),* 10078–10091
- N. Mroweh, P. Auban-Senzier, N. Vanthuyne, E. Canadell, N. Avarvari, 2020 Crystals, **2020**, *10(11)*,1–14, 1069
- N. Mroweh, A. Bogdan, F. Pop, P. Auban-Senzier, N. Vanthuyne, E. B. Lopez, M. Almeida, N. Avarvari, *Magnetochemistry*, **2021**, *7*, 87
- Abherve, N. Mroweh, T. Cauchy, F. Pop, H, Cui, R. Kato, N, Vanthuyne, P; Alemany, E, Canadell, N. Avarvari, *J. Mater. Chem. C,* **2021**,*9,* 4119-4140
- Abherve, N. Mroweh, T. Cauchy, F. Pop, N, Vanthuyne, N. Avarvari, *Chirality,* **2022**, *34(1),* 4-12
- N. Mroweh, T. Cauchy, N. Vanthuyne, N. Avarvari, *CrystEngComm*, **2022**, *24*, 6187-6197
- N. Mroweh, M. Varghese, J. M. Mouesca, S. Gambarelli, A. Schwab, S. Kupfer, N. Hagmeyer, B. Dietzek-Ivansic, M. Chavarot-Kerlidou, **to be submitted**
- N. Mroweh, N. Hagmeyer, M. Varghese, J. M. Mouesca, S. Gambarelli, B. Dietzek-Ivansic, M. Chavarot-Kerlidou, **to be submitted**

CONFERENCES

- LCBM seminar, CEA, Grenoble, oral : Design of artifitial photosynthetic systems fro bio-inspired charge photoaccumulation / June 2022.
- Journées de Chimie de Coordination (JCC 2021), Paris, oral : Design of artifitial photosynthetic systems fro bio-inspired charge photoaccumulation / September 2021.
- Journées des Carburants Solaires (GDR Solar Fuels), Saint Jacque Abbaye - France, Poster : Design of artifitial photosynthetic systems fro bio-inspired charge photoaccumulation / September 2021.
- Journées André Collet de la Chiralité (JACC 2018), Noirmoutier – France, Poster : Chiral molecular conductors / September 2018.
- Société Chimique de France (SCF congress), Montpellier and Toulouse - FRANCE, Oral communication : Chiral molecular conductors based on alkylated EDT TTF / June 2018.
- Journée Ecole Doctoral (JED), Nantes – France, Oral communication : chiral TTF precursors and radical cation salts / July 2017.
- Société Chimique de France (SCF congress), Le Mans, Oral communication : Chiral TTF precursors and radical cation salts / March 2017.

Autograph signature replaced by printing, pursuant to art. 3, paragraph 2, of Legislative Decree no. 39/1993.

The original of this declaration is kept at the Department of Neuroscience, Psychology, Drug Area and Child Health (NEUROFARBA).