

Formations

National Graduate School of Chemistry of Montpellier (ENCSM) 2019 - 2022

Degree of Engineer in Chemistry Engineering Major in Materials Chemistry

University of Montpellier (UM) 2021 - 2022

Master degree in Chemistry and Materials Sciences for Sustainable Development

Two-year intensive undergraduate studies to integrate the Gay-Lussac Federation Schools in the National Graduate School of Lille (ENSCL) 2017 - 2019

Hard skills

Thin film formations

- Spin Coating
- Spray Pyrolysis
- Chemical Vapor Deposition
- Doctor blade

Characterisations

- Cristallography: SEM, EDX, DSC, Thermogravimmetric analysis
- Electrochemistry: J-V curves, EQE spectra, Spectrophotometry
- Optic: Photoluminescence, UV-visible spectrophotometry

Soft skills

- Autonomy
- Presentation of scientific research
- Team work
- Time management

MARIE CRESP

PHD STUDENT AT THE INSTITUTE OF RESEARCH IN CHEMISTRY PARIS (IRCP) IN THE LABORATORY OF MATERIALS FOR PHOTONICS AND OPTOELECTRONICS (MPOE)

marie.cresp@chimieparistech.psl.eu

Work Experiences

Thesis about Chemical Engineering for the Synthesis of Highly Stable Perovskite Layers for Efficient Solar Cells Applications Institute of Research in Chemistry Paris (IRCP)

Scientific Research National Center (CNRS) Oct. 2022 - Oct. 2025

- Working under the supervision of Dr Thierry PAUPORTE
- Design of new efficient & stable perovskites for solar cells applications
- Characterisation by spectrophotometry, photoluminescence, XRD, SEM, EDX & Glow Discharge Optical Emission Spectroscopy
- Characterisation of solar cells by EQE measurements & J-V curves
- Aging measurements on layers and devices

Research & Development Internship Saint-Gobain Research Compiègne

Feb. 2022 - Aug. 2022

- Working under the direction of Dr Elise GARDIN
- Study of the physico-chemical phenomena involved in the corrosion of new mirrors in order to indentify new ways of improvement

Research & Development Internship CellMark Montpellier

Apr. 2021 - Aug. 2021

- Working under the direction of Dr Frederic ROQUEFEUIL
- Formulations and applications of coatings based on organometallics for the improvement of glass properties

Languages

- \longrightarrow French......Mother tongue
- English.....(TOEIC score: 975/990) C1
 - -----------------------B2