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CALL FOR APPLICATIONS 2025 – FELLOWS

Supervisor	Volodymyr Malytskyi
Supervisor page	https://ipcm.fr/en/en-research/en-presentation-ermmes-group/en-ermmes-group-members/en-volodymyr-malytskyi/
Host Institution	Sorbonne Université https://www.sorbonne-universite.fr/en
Research Lab	Institut Parisien de Chimie Moléculaire https://ipcm.fr/en/en-the-institute/
Research Team	Molecular materials and spectrocopies https://ipcm.fr/index.php/en/en-research/en-presentation-ermmes-group/

Project Title

Surface functionalization with chelating monolayer

Project Description

The objective of this project is to develop novel stimuli-responsive molecular materials. We aim at the covalent grafting of ETCST-capable compounds in a well-structured manner. The methodology we wish to develop consists in the synthesis of functionalized fac-tridentate ligands, their covalent grafting on the surface and the post-modification with polymetallic complexes. This project may be of interest to researchers with a background in molecular and in surface chemistry.

Keywords

surface grafting, molecular materials, polymetallic complexes

Description of the Host Research Lab

The IPCM (Institut Parisien de Chimie Moléculaire/Parisian Institute for Molecular Chemistry) is a joint research unit between Sorbonne Université and CNRS (Centre National de la Recherche Scientifique). The expertise in molecular chemistry in the broadest sense, the great diversity of the teams and the laboratory's high-performance technical platforms lead to research ranging from the structuring of matter on a molecular scale to materials, involving know-how in inorganic and organic chemistry, polymer science, nanoscience, and even the interfaces with biology. The scientific results of the IPCM, in relation to the major societal challenges, have an impact on fields ranging from health, the environment and new energies to information technologies.

To submit your application, please send an email with the required documents to
msca-pf@sorbonne-universite.fr