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Marie Skłodowska-Curie Actions

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Postdoctoral Fellowships



CALL FOR APPLICATIONS 2025 – FELLOWS

Supervisor	Vincent Vivier
Supervisor page	https://lrs.sorbonne-universite.fr/personnes-lrs/vincent-vivier
Host Institution	Centre National de la Recherche Scientifique (CNRS) https://www.cnrs.fr/en
Research Lab	Laboratoire de Réactivité de Surface https://lrs.sorbonne-universite.fr/en
Research Team	Surface science and solid-liquid interfaces https://lrs.sorbonne-universite.fr/en/node/1908

Project Title

Identification of the rate limiting step in electrocatalysis

Project Description

Electrochemical reactions are most often governed by complex mechanisms involving intermediates that form on the electrode surface depending on the applied potential. The objective of this project is to combine spectroscopic (Raman and/or IR) and electrochemical techniques to characterize and quantify these reactive species. Particular attention will be paid to two reactions of interest: urea oxidation and the oxygen evolution reaction (OER).

Keywords

electrocatalysis, vibrational spectroscopy, reaction intermediate

Description of the Host Research Lab

Research at the Laboratoire de Réactivité de Surface is focused on developing and controlling the surface of inorganic materials (such as metal oxides) for applications in heterogeneous catalysis (pollution control, “green” processes, upgrading of bio-sourced molecules or pollutants) and biointerfaces (biosensors, anti-biofilm surfaces, biopiles, prebiotic chemistry).

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