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POSTDOCTORAL POSITION

Development of Coordination Complexes for CO₂ Electrocatalytic Reduction

The Job: This postdoctoral position will be funded by the CNRS through the granted MOPGA project. The research project aims to develop new earth abundant, transition metal complexes as molecular catalysts for highly efficient Carbon Dioxide electroreduction. In this interdisciplinary project, the candidate will perform ligand synthesis and complexation reactions to obtain a family of complexes to be tested as electrocatalysts for CO₂ electroreduction. The candidate will work closely with other members of the team lead by Prof. Marc Robert (REACTE). He/She will participate at group meetings as well as in the team organization.

Tasks:

- Ligand Synthesis.
- Complexation reactions of 1st row transition metals with new and previously synthesized ligands.
- Characterization and electrochemical studies of the newly formed complexes.
- CO₂ electrocatalytic reduction studies

Skills and experience:

- You have a proven track in organometallic chemistry.
- Experience in Fe-coordination chemistry and ligand synthesis will be useful.
- You must have expertise characterizing new compounds by spectroscopic techniques and in the analysis of reaction mechanisms: NMR, UV-vis, IR, GC, GC-MS, ...
- Your scientific and research profile is completed by additional knowledge of standard computer programs and chemical software. You view good English language skills as a matter of course.
- In your day-to-day work, you enjoy contributing creativity and initiative, view yourself as a team player and are distinguished by strong cooperation and communication skills.

About us: http://www.lemp7.cnrs.fr/themes/LEM_1_en.htm

Our group is recognized at an international level in the field of molecular electrochemistry and electron transfer reactivity. In the recent years, we have been a leading international group in the fields of electrochemical and photochemical activation of small molecules, particularly CO₂.

Join us: Interested candidates must send a cover letter and a CV, along with the information of three referees to Orestes Rivada Wheelaghan (orestes.rivada@univ-paris-diderot.fr) and Marc Robert (robert@univ-paris-diderot.fr)

Expected incorporation from Fall 2019

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