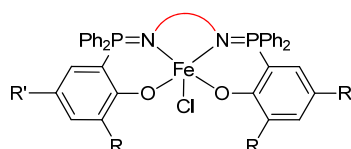




Postdoctoral Research Fellow in inorganic chemistry to develop iron based oxidation catalysts

Applications are invited for a postdoctoral research position in the field of molecular chemistry and more precisely inorganic chemistry on a LABEX CHARM₃AT-funded project. The position is available for 12 months, starting on October/November 2018 or as soon as possible thereafter. The aim of the project is the study of iron phosphasalen complexes to develop oxidation catalysts. In particular, phosphasalen iron(III) complexes and their derivatives of higher oxidation state will be characterized by various spectroscopy and electrochemical methods. The reactivity of iron(II) complexes (obtained synthetically or electrochemically) towards reductive activation of O₂ will be explored as well.



Phosphasalen Fe^{III} complex

Références: I. M. Marin, A. Auffrant, *Eur. J. Inorg. Chem.* **2018**, 1634-1644 ; I. Mustieles-Marín, T. Cheisson, R. Singh Chauhan, C. Herrero, M. Cordier, C. Clavaguéra, G. Nocton, A. Auffrant, *Chem. Eur. J.*, **2017**, 23, 17940-17953 ; N. Ségaud; E. Anxolabehere-Mallart; K. Sénéchal-David; L. Acosta-Rueda; M. Robert; F. Banse, *Chem. Sci.*, **2015**, 6, 639-647 ; A. Thibon, V. Jollet, C. Ribal, K. Sénéchal-David, L. Billon, A. Sorokin, F. Banse *Chem. Eur. J.* **2012**, 18, 2715-2724.

Appropriate background should include an experience in molecular inorganic synthesis and in associated spectroscopic characterization techniques (UV-vis, RPE) and electrochemistry.

This project will be done in collaboration between LCM located in Ecole polytechnique and the LCI located in the campus of University Paris Sud. The two Laboratories are close to each other near Orsay, 30-40 minutes away by train from Paris.

Contacts

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Applications should be sent by email and include a detailed CV, a short research statement and a publication list in electronic format. The names and complete addresses of referees are welcome.