



Post-doctoral research position in Synthetic Organic Chemistry Phosphorus Chemistry/Organocatalysis

Offer type: Post-doctoral position

Funding : French National Research Agency (ANR)

Salary : ca 1820 € netto/ month

Recruiting organization : Université Le Havre Normandie (ULHN)

Workplace : Le Havre (76) - France

Skill area : Chemistry – Organic chemistry

Starting date : February, 1st 2022

Key words: cationic chemistry, phosphorus chemistry, kinetic studies, organocatalysis.

The project is part of a research program recently initiated in our group and dedicated to the synthesis and evaluation of phosphiranium ions, a relatively unexplored class of phosphorus compounds. The research project will focus on the development of original methodologies for the generation of these strained phosphorus cations and their C-centered ring-opening with nucleophiles. A part of the work will also be directed towards a better understanding of these unknown species reactivity. This project will be part of an ANR program and will be carried out in collaboration with Dr. Sami Lakhdar from LHFA (Laboratoire Hétérochimie Fondamentale et Appliquée – Université Paul Sabatier - Toulouse) specialized in phosphorus and physical organic chemistry. The postdoctoral researcher will be in charge of the experimental work including products identification and characterization (using classical spectroscopic techniques), the writing of scientific reports and publications.

Recent publications:

(a) J. Gasnot, C. Botella, S. Comesse, S. Lakhdar, C. Alayrac, A.-C. Gaumont, V. Dalla, C. Taillier *Angew. Chem. Int. Ed. Engl.* **2020**, *59*, 11769 ;(b) J. Gasnot, C. Botella, S. Comesse, S. Lakhdar, C. Alayrac, A.-C. Gaumont, V. Dalla, C. Taillier *Synlett* **2020**, *9*, 883 ; (c) M. Berthet; A. Beauseigneur; C. Moine; C. Taillier; M. Othman; V. Dalla *Chem. Eur. J.* **2018**, *24*, 1278 ; (d) M. Berthet; O. Songis; C. Taillier; V. Dalla *J. Org. Chem.* **2017**, *82*, 9916 ;

Candidate Profile:

The candidate should hold a Ph-D in organic chemistry. He/She should have a strong background in organic synthesis and characterization methods (NMR, GC, MS, HPLC, etc). An experience in catalysis and/or handling of sensitive compounds under inert atmosphere will be strongly appreciated. The expected qualities of the candidate are a high motivation for research, independency in research work, good organization and communication skills.

Closing date for application : October, 15th 2021.

Application : To apply, please send a cover letter and a detailed CV with a list of publications and contact details of two former supervisors for reference. Please note that any letter of reference should be sent directly to Dr Catherine Taillier and Pr Vincent Dalla.

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