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Dual copper/benzophenone photocatalysis applied to C(sp^3)–H bond alkylation

Prof. Jean-Marc Vincent

(University of Bordeaux | CNRS)

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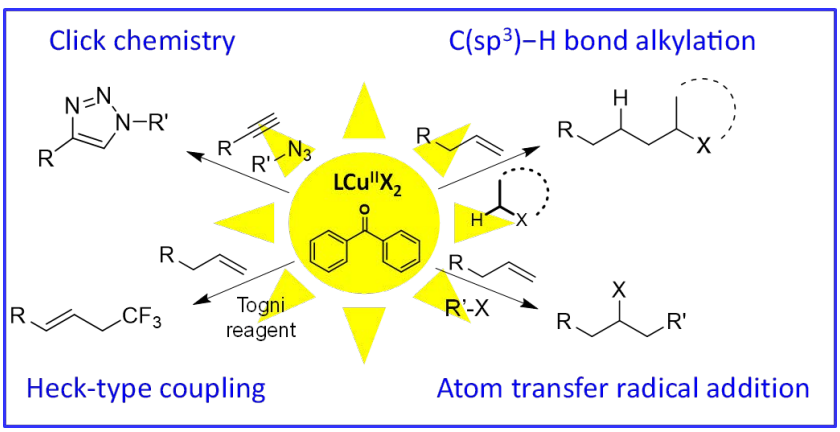
Aula Luca Bertolini
Via Mancinelli 7, Milano

In the lecture, our contribution to the field of dual photoredox/transition metal catalysis will be presented with a focus on dual copper/benzophenone photocatalyzed processes applied to the functionalization of C(sp^3)–H bonds[1,2] Recent work dealing with the use of a highly fluorinated photoredox catalyst combined to chloride ion as hydrogen atom transfer catalyst will be also discussed.



1. (a) L. Harmand, S. Cadet, B. Kauffmann, L. Scarpantino, P. Batat, G. Jonusauskas, D. Lastécouères, J.-M. Vincent Angew. Chem. Int. Ed., 2012, 51, 7137; (b) R. Beniazza, R. Lambert, L. Harmand, F. Molton, C. Duboc, S. Denisov, G. Jonusauskas, N. D. McClenaghan, D. Lastécouères, J.-M. Vincent Chem. Eur. J., 2014, 20, 13181. (c) R. Beniazza, F. Molton, C. Duboc, A. Tron, N. D. McClenaghan, D. Lastécouères, Vincent Chem. Commun., 2015, 51, 9571.
2. (a) B. Abadie, J. Damien, G. Pozzi, P. Toullec, J.-M. Vincent Chem. Eur. J. 2019, 25, 16120; (b) B. Abadie, G. Jonusauskas, N. D. McClenaghan, P. Y. Toullec, J.-M. Vincent Org. Biomol. Chem. 2021, 19, 5800.

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