

Special Issue

Catalysts for C–H Activation and Functionalisation

Message from the Guest Editor

Catalysts is planning a Special Issue focused on “Catalysts for C–H Activation and Functionalization” using both heterogeneous and homogeneous catalysis, including enzyme catalysis. In the 1970s, Shilov and Crabtree pioneered research in this fascinating field, reporting, respectively, methane functionalization and alkanes dehydrogenation promoted by soluble transition metal complexes. In the early 1980s, the groups of Bergman, Jones, and Graham provided evidence for C–H oxidative addition to Ir centers. Since then, C–H activation/functionalization chemistry has exhibited a steady growth and continues to expand to this day thanks to the development of advanced synthetic strategies that allow, for example, to control the positional selectivity in intermolecular C–H transformations. Research and findings in this research area were recently reviewed in the Chemical Review Special Issue titled “C–H activation” (reporting a comprehensive review of the literature published until mid-2016) as well as in other outstanding journals.

Guest Editor

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