Special Issue

Enabling Technologies toward Green Catalysis

Message from the Guest Editor

Although, in the last two decades, the 12 principles of green chemistry have become extremely fashionable, the development of scalable protocols of green catalysis showed a certain inertia with a growing gap between academia and industry. Current organic synthesis requires both innovative catalysts and suitable technologies to address the rules of green chemistry and the goal of process intensification. Ultrasound, hydrodynamic cavitation, microwaves, ball milling, flow chemistry and other non-conventional technologies may dramatically enhance chemical conversions, cutting down reaction times and energy consumption. Green catalysis is a holistic concept that requires enabling technologies as irreplaceable tools for an efficient physical activation. This Special Issue aims to highlight how properly harness all the new technologies and better integrate all disciplines for a modern green catalysis.

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