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Heterogeneous Catalysis for Fine Chemicals: Development of Sustainable Chemical Processes

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Message from the Guest Editors

The introduction of heterogeneous catalysts has greatly influenced the development of new synthetic protocols and the minimization of byproducts by enhancing the yields of desired products. Despite all the advancement in this research area, catalysts are not always green and sustainable; Currently, one of major challenges in the chemical industry is to design and develop heterogeneous catalysts for different chemical processes to nurture sustainable fine chemical synthesis.

This Special Issue, “Heterogeneous Catalysis for Fine Chemicals: Development of Sustainable Chemical Processes”, covers the design, preparation, characterization, and catalytic performances of heterogeneous nanostructured catalysts for sustainable green chemical processes in renewable energy, refining, CO2 utilization, and bio-additives. We invite authors to contribute original research articles, as well as review articles, with a special emphasis on catalyst development for sustainable chemical processes involving the use of different types of catalysts, ranging between biocatalysts, metal catalysts, metal oxide catalysts, and organic–inorganic hybrid catalysis, among others.