Special Issue

Sustainable Nanocatalysts for Organic Transformations

Message from the Guest Editors

Synthetic organic transformations are vital for the manufacture of a large variety of pharmaceuticals, polymers, agrochemicals, intermediates, and fine chemical products. Metal nanoparticle-based catalysts are essential emerging materials in enhancing these advanced processes. Consequently, their applications for expediting organic reactions have seen tremendous progress in view of the nanotechnology advancements that enable precise control of the size, shape, and morphology of such compositions. The potential topics in this Special Issue include but are not limited to: Name reactions catalyzed by nanocatalysts; Recent developments in advanced nanocatalysts; Methods for characterizations in heterogeneous organic reactions; Various organic reactions catalyzed by nanocatalysts; Nanostructured catalysts for greener and sustainable organic processes; Retrievable and reusable nanocatalysts; Solid supported nanocatalysts for diverse catalytic transformations; Magnetic nanocomposite catalysts; Oxidation and reduction reactions by nanocatalysts; Cross-coupling and tandem reactions by nanocatalysts.

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