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Advances in Organocatalysts: Synthesis and Applications

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Message from the Guest Editors

Organocatalysis represents one of the most exciting and rapidly developing research fields in organic chemistry, becoming the third pillar after transition metal catalysis and biocatalysis. Using nonmetal catalysts in organic syntheses presents a lot of advantages, such as less toxicity and pollution, ease of handling, less sensitivity to air and moisture, lower cost, thus making this option more economical and less harmful to the environment than applying traditional organometallic catalysts.

In addition, electrochemical and photochemical reactions applying organic molecules as mediators and catalysts can offer mild, alternative methodological strategies towards green chemistry.

This Special Issue aims to cover recent research and advances in the field of metal-free catalysts, photoredox- and electrocatalysis. Novel mechanistic and investigatory studies on catalysis, design and synthesis of organocatalysts, their applications in the preparation of products important in the pharmaceutical or material sciences, as well as recycling are welcomed in this issue as full papers, communications, and mini-reviews.



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Special Issue



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Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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