



materials



an Open Access Journal by MDPI

Advances in Organocatalysts: Synthesis and Applications

Guest Editors:

Dr. Erika Bálint

Department of Organic
Chemistry and Technology,
Budapest University of
Technology and Economics,
Budapest, Hungary

Dr. József Kupai

Department of Organic
Chemistry and Technology,
Budapest University of
Technology and Economics,
Budapest, Hungary

Deadline for manuscript
submissions:

closed (15 November 2021)

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.



mdpi.com/si/29451

Special issue



an Open Access Journal by MDPI

Editors-in-Chief

Prof. Dr. Maryam Tabrizian

1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada

2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

Prof. Dr. Yuguang Ma

State Key Laboratory of Luminescent Materials and Devices, South China University of Technology, Guangzhou 510640, China

Message from the Editorial Board

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Ei Compendex, CaPlus / SciFinder, Inspec, Astrophysics Data System, and other databases.

Journal Rank: JCR - Q2 (Metallurgy and Metallurgical Engineering) / CiteScore - Q1 (Condensed Matter Physics)

Contact Us

Materials Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/materials
materials@mdpi.com
[X@Materials_Mdpi](https://twitter.com/Materials_Mdpi)