





an Open Access Journal by MDPI

Green Chemistry of Renewable Energy in Catalysis and Reaction Engineering

Guest Editors:

Dr. Praveen Kumar

Faculty of Chemistry and Chemical Technology, University of Ljubljana (Univerza v Ljubljani), 1000 Ljubljana, Slovenia

Dr. Shilpi Verma

School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala 147003, Punjab, India

Prof. Dr. Romana Cerc Korošec

Faculty of Chemistry and Chemical Technology, University of Ljubljana (Univerza v Ljubljani), 1000 Ljubljana, Slovenia

Deadline for manuscript submissions:

30 November 2024

Message from the Guest Editors

With the development and application of an appropriate catalyst, mild reaction conditions can be achieved. Effective catalysts can conveniently control the direction and rate of a reaction under suitable reaction temperature and pressure. In this regard, the heterogenous and electrocatalysis processes have been found efficient in chemical and fuel synthesis, biomass conversion, wastewater treatment, energy generation, etc. However, there are numerous challenges, such as catalysts deactivation, stability, search for low-cost catalysts, etc., in catalyst design with the required set of properties. Moreover, multiple engineering challenges, such as non-ideal mechanistic kinetics and thermodynamics, need to be studied for an effective outcome.

This Special Issue aims to cover catalyst design and engineering challenges for various catalysts developed for chemical and fuel synthesis, biomass conversion, wastewater treatment, energy generation, etc.











an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Giancarlo Cravotto

Department of Drug Science and Technology, University of Turin, Via P. Giuria 9, 10125 Turin, Italy

Message from the Editor-in-Chief

Processes (ISSN 2227-9717) provides an advanced forum for process/system-related research in chemistry, biology, material, energy, environment, food, pharmaceutical, manufacturing and allied engineering fields. The journal publishes regular research papers, communications, letters, short notes and reviews. Our aim is to encourage researchers to publish their experimental, theoretical and computational results in as much detail as necessary. There is no restriction on paper length or number of figures and tables.

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), Ei Compendex, Inspec, AGRIS, and other databases.

Journal Rank: JCR - Q2 (*Engineering, Chemical*) / CiteScore - Q2 (*Chemical Engineering (miscellaneous*))

Contact Us