Special Issue

Green Chemistry of Renewable Energy in Catalysis and Reaction Engineering

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 electro-catalysis 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.

Guest Editors

Dr. Praveen Kumar

Dr. Shilpi Verma

Prof. Dr. Romana Cerc Korošec

Deadline for manuscript submissions

closed (30 November 2024)



Processes

an Open Access Journal by MDPI

Impact Factor 2.8 CiteScore 5.5



mdpi.com/si/156544

Processes
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
processes@mdpi.com

mdpi.com/journal/ processes





Processes

an Open Access Journal by MDPI

Impact Factor 2.8 CiteScore 5.5



About the Journal

Message from the Editor-in-Chief

You are invited to contribute either a research article or a comprehensive review for consideration and publication in *Processes* (ISSN 2227-9717). *Processes* is published in open access format – research articles, reviews, and other content are released on the internet immediately after acceptance. The scientific community and the general public have unlimited, free access to the content. As an open access journal, *Processes* is supported by the authors and their institutes through the payment of article processing charges (APCs) for accepted papers. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

Prof. Dr. Giancarlo Cravotto

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

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:

CiteScore - Q2 (Chemical Engineering (miscellaneous))

