Special Issue

Efficient Oxidation Catalysis Using Unconventional Methods

Message from the Guest Editors

Selective and efficient catalysts for oxidation reactions under sustainable conditions are an important area of current research interest. There is a high demand for the design of alternative and efficient routes under mild conditions that bypass the use of toxic acid solvents for energy-efficient catalytic processes and for a clean environment. For this purpose, several techniques (e.g., microwave irradiation, ultrasound, advanced oxidation processes (AOPs), ionic liquid or supercritical CO2 medium and gas-phase catalysis) are employed to make the catalytic process more energy-efficient and ecofriendly. Catalysts can be homogeneous, heterogenous or supported, depending on their nature and activity in the catalytic reactions. Papers submitted to this Issue may also include kinetic studies, theoretical calculation, and mechanistic illustrations. The main goal of this Special Issue is to combine a variety of new and original research results on oxidation catalysis under unconventional methods. New and original research studies and review articles on this topic are welcome.

Guest Editors

Dr. Tannistha Roy Barman

Centro de Química Estrutural, Instituto Superior Técnico, Universidade de Lisboa, Av. Rovisco Pais, 1049-001 Lisboa, Portugal

Dr. Manas Sutradhar

 Faculdade de Engenharia, Universidade Lusófona, Campo Grande 376, 1749-024 Lisboa, Portugal
Centro de Química Estrutural, Instituto Superior Técnico, Universidade de Lisboa, Av. Rovisco Pais, 1049-001 Lisboa, Portugal

Deadline for manuscript submissions

closed (30 December 2022)



Catalysts

an Open Access Journal by MDPI

Impact Factor 3.8 CiteScore 6.8



mdpi.com/si/118728

Catalysts MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 catalysts@mdpi.com

mdpi.com/journal/

catalysts





Catalysts

an Open Access Journal by MDPI

Impact Factor 3.8 CiteScore 6.8



catalysts



About the Journal

Message from the Editor-in-Chief

Editor-in-Chief

Prof. Dr. Keith Hohn Carl R. Ice College of Engineering, Kansas State University, Manhattan, KS, USA

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), Inspec, CAPlus / SciFinder, CAB Abstracts, and other databases.

Journal Rank:

JCR - Q2 (Chemistry, Physical) / CiteScore - Q1 (General Environmental Science)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 12.9 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the first half of 2024).

