

Special Issue

Application of Photocatalysts in Environmental Chemistry

Message from the Guest Editors

Photocatalysts are extensively investigated for their promising properties in the generation of hydrogen by the water-splitting process, air purification, production of CH₄ by CO₂ reduction, inactivation of microorganisms and disinfection of water, degradation of various classes of organic and inorganic contaminants such as pesticides, dyes, drugs, etc. The structural features of photocatalysts can be further tuned to improve their stability, light absorption efficiency and photocatalytic performance. Moreover, the synthesis of innovative composite nanocatalysts makes these materials easily recoverable and recyclable for subsequent runs. Due to the interesting potentiality of photocatalysts, original studies of new and efficient catalytic devices for environmental applications are highly desirable.

Guest Editors

Dr. Paola Semeraro

Department of Biological and Environmental Sciences and Technologies, University of Salento, Lecce, Italy

Prof. Dr. Roberto Comparelli

National Research Council–Institute for Physical Chemical Processes (CNR-IPCF), Bari, Italy

Deadline for manuscript submissions

closed (31 January 2022)



Catalysts

an Open Access Journal
by MDPI

Impact Factor 4.0
CiteScore 7.6



mdpi.com/si/63684

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

[mdpi.com/journal/
catalysts](https://mdpi.com/journal/catalysts)





Catalysts

an Open Access Journal
by MDPI

Impact Factor 4.0
CiteScore 7.6



[mdpi.com/journal/
catalysts](https://mdpi.com/journal/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, Ei Compendex, 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 15.9 days after submission; acceptance to publication is undertaken in 3.5 days (median values for papers published in this journal in the second half of 2025).