

Special Issue

Photocatalysis: Past, Present, and Future Outlook

Message from the Guest Editor

Photocatalysis has its origins in the early 20th century, but significant advancements occurred in the 1970s with the discovery of water splitting using TiO₂ electrodes under UV light by Fujishima and Honda. This landmark finding paved the way for exploring photocatalytic materials and their applications. Early research primarily focused on understanding the fundamental mechanisms, developing new photocatalytic materials, and exploring their potential applications in environmental purification, such as the degradation of organic pollutants and water treatment.

In recent years, photocatalysis has seen substantial progress in both fundamental research and practical applications. With ongoing advancements in material science, process engineering, and interdisciplinary approaches, photocatalysis is poised to make significant contributions to sustainable development and technological innovation in the future. The continued collaboration between academia, industry, and policymakers will be crucial in realizing the full potential of photocatalytic technologies.

Guest Editor

Dr. Nina Kaneva

Laboratory of Science and Technology of Nanoparticles, Faculty of Chemistry and Pharmacy, University of Sofia, J. Bourchier 1, 1164 Sofia, Bulgaria

Deadline for manuscript submissions

closed (5 July 2025)



Catalysts

an Open Access Journal
by MDPI

Impact Factor 4.0
CiteScore 7.6



mdpi.com/si/213473

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).