

## Special Issue

# New Trends in Photocatalysis: Photocatalytic Materials and Applications

### Message from the Guest Editors

Photocatalysts represent a class of important materials for a wide range of processes, from the production of new pharmaceuticals to environmental applications. As a result, the number of studies investigating photocatalytic materials is steadily increasing, also showing an interesting level of interdisciplinary collaboration between chemists, engineers, and materials scientists. Recent trends focus on the design of catalysts at different hierarchical levels, ranging from molecular to plant-scale, within the more general framework of sustainability challenges and process intensification. Potential topics of interest for this Special Issue include, but are not limited to, the following aspects: - Synthesis and characterization of novel photocatalysts - Intensification of photocatalytic processes for the production of functional molecules - Applications of photocatalysts in wastewater and air treatment - Photocatalytic materials to address specific sustainability challenges - Photocatalytic reactor and plant design - Critical and perspective reviews on proposed aspects of photocatalysis

### Guest Editors

Dr. Danilo Russo

1. Department of Chemical Engineering and Biotechnology, University of Cambridge, Cambridge CB3 0AS, UK

2. Department of Chemical Engineering, Materials, and Industrial Production, University of Naples "Federico II", 80138 Napoli, Italy

Prof. Dr. Dionissios Mantzavinos

Department of Chemical Engineering, University of Patras, University Campus, Caratheodory 1, 26504 Patras, Greece

### Deadline for manuscript submissions

closed (10 January 2022)



## Catalysts

an Open Access Journal  
by MDPI

Impact Factor 4.0  
CiteScore 7.6



[mdpi.com/si/56069](https://mdpi.com/si/56069)

*Catalysts*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[catalysts@mdpi.com](mailto: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 16.6 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the first half of 2025).