

## Special Issue

# Metallic or Metallic Oxide (Photo)catalysts for Environmental Applications

### Message from the Guest Editors

Over the last century, industrialization intensified in most countries around the world, and in various fields, particularly the chemical, pharmaceutical, cosmetics, horticulture, food, and petroleum industries. This intense industrialization has resulted in the emergence of a large variety of **organic pollutants** such as dyes, aromatics, pesticides, solvents, EDCs (Endocrine Disrupting Chemicals) and PPCPs (Pharmaceuticals and Personal Care Products) and the production of **various waste** such as wood or forest residues, waste from food crops (wheat straw, bagasse), horticulture (yard waste), or human waste from sewage plants. All this pollution and waste need to be treated and valorized in order to maintain a safe and clean environment. Numerous innovative catalytic and photocatalytic processes are being developed to transform these by-products of our industries into useful compounds. Given the complex nature of these persistent organic pollutants or biomass starting materials, sophisticated catalytic solids need to be elaborated, presenting for example acid/redox bi-functionality or resistance to hydrolysis.

### Guest Editors

Prof. Dr. Sophie Hermans

Molecular Chemistry, Materials and Catalysis (MOST), Institute of Condensed Matter and Nanosciences (IMCN), UCLouvain, Place Louis Pasteur 1, B-1348 Louvain-la-Neuve, Belgium

Dr. Julien Mahy

Institute of Condensed Matter and Nanosciences (IMCN), Université catholique de Louvain, Place Louis Pasteur 1, 1348 Louvain-la-Neuve, Belgium

### Deadline for manuscript submissions

closed (31 August 2021)



## Catalysts

an Open Access Journal  
by MDPI

Impact Factor 4.0  
CiteScore 7.6



[mdpi.com/si/34010](https://mdpi.com/si/34010)

*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).