

## Special Issue

# New Advances in Perovskite and Metal Oxide Photocatalysts and Electrocatalysts

### Message from the Guest Editors

Metal oxides, particularly perovskite oxides with a general formula  $ABO_3$ , represent the nexus of sustainable chemistry. In the field of electrocatalysis, perovskite and transition metal oxides have been investigated as catalysts for many reactions, including the oxygen evolution reaction (OER), the oxygen reduction reaction (ORR), hydrogen evolution (HER), and  $CO_2$  reduction. In addition, they showed efficient photocatalytic properties. This Special Issue showcases the recent advances in the development of perovskites and metal oxides materials for electro- and/or photocatalysis. This includes both experimental and theoretical approaches to improve the overall performance of the catalytic reactions by optimizing the physico-chemical properties of reaction components (catalysts, electrolytes, and membranes), operating conditions, and reactor designs. We therefore welcome all original papers and reviews encompassing the above subject line for submission.

---

### Guest Editors

Dr. Hatem Amin  
Dr. Yasser Hassan  
Dr. Hassan A. Alhazmi

---

### Deadline for manuscript submissions

closed (30 April 2024)



## Catalysts

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.0  
CiteScore 7.6



[mdpi.com/si/163401](https://mdpi.com/si/163401)

*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 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).