Special Issue

Electrocatalytic Water-Splitting

Message from the Guest Editor

Electrochemical water splitting to generate hydrogen and oxygen fuels provides eco-friendly energy sources for fuel cell technology. The main focus of this Special Issue on “Electrocatalytic Water Splitting” will be on water oxidation catalysis and hydrogen evolution. We invite researchers to contribute original research papers and reviews related to the design, synthesis, and characterization of electrocatalysts, including 2D materials, MOFs, carbon-based, etc., and studies of activity, catalytic active center, electrochemical stability, mechanisms, and computational chemistry. The main topics include, but are not limited to:

- Electrocatalysts for water splitting;
- Electrocatalysts for oxygen evolution reaction;
- Electrocatalysts for hydrogen evolution reaction;
- High-performance electrocatalysts for water splitting;
- Computational screening of electrocatalysts for water splitting.

Guest Editor

Prof. Dr. Linfei Lai
Institute of Advanced Materials, Nanjing Tech University, Nanjing 210009, China

Deadline for manuscript submissions

closed (10 February 2022)

Catalysts

an Open Access Journal by MDPI

Impact Factor 4.0
CiteScore 7.6

mdpi.com/si/93522

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

mdpi.com/journal/catalysts

Catalysts

an Open Access Journal by MDPI

Impact Factor 4.0
CiteScore 7.6

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).

MDPI