

Special Issue

Hybrid Materials for Oxygen Electrocatalysis

Message from the Guest Editor

The increase concern in climate change resulting from the use of fossil fuels, has led to researchers over the world to search for sustainable energy conversion and storage technologies, such as metal-air batteries, polymer electrolyte water electrolyzers and polymer electrolyte fuel cells, is of great importance. The oxygen reduction reaction (ORR) and oxygen evolution reaction (OER) are the key processes that drive these technologies. However, both suffer from complex multielectron transfer steps. Currently, expensive noble metals such as Ir, Ru (for OER) and Pt (for ORR) are applied as electrocatalysts, making their large-scale implementation extremely challenging. This Special Issue of *Catalysts* on “Hybrid Materials for Oxygen Electrocatalysis” is devoted to new materials for oxygen electrocatalysis, with a special focus on hybrid materials and advanced new methods, including in situ and operando techniques, which can lead to a better understanding of structure–performance relationships. It is therefore my pleasure to invite you to contribute to this Special Issue with your research article, communication, or review.

Guest Editor

Dr. Ana Jorge Sobrido

Materials Research Institute, School of Engineering and Materials Science, Queen Mary University of London, London, UK

Deadline for manuscript submissions

closed (31 January 2021)



Catalysts

an Open Access Journal
by MDPI

Impact Factor 4.0
CiteScore 7.6



mdpi.com/si/29514

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).