

Special Issue

Exploring the Mechanisms and Kinetics of Electrocatalytic Reactions

Message from the Guest Editors

We are thrilled to announce an upcoming Special Issue dedicated to electrochemical research. This Special Issue will explore the intricacies of electrocatalytic reactions, shedding light on their mechanisms and kinetics. We welcome submissions that delve into the recent advances, challenges, new methods, and industrial potential of electrochemical reactions wherein the reaction rate defined by optimal electrocatalysts pushes the boundaries to achieve efficiency, sustainability, and innovation. The Special Issue's focus will be on all types of electrocatalysts that convert inorganic substrates into industrially relevant products. Thus, submissions regarding O₂ reduction, CO₂ reduction, N₂ reduction, H₂ oxidation, precipitation, and crystallization reactions of metal ions and metal salts are appreciated. The use of electrocatalysts in gas diffusion electrodes is encouraged. Join us in this enlightening voyage through the vibrant landscape of electrocatalysis. Whether you are a seasoned researcher, an industry professional, or an enthusiastic learner, this Special Issue promises to be a source of knowledge and inspiration for all.

Guest Editors

Dr. Xochitl Dominguez-Benetton

Separation and Conversion Technology, Flemish Institute for Technological Research (VITO), Boeretang 200, 2400 Mol, Belgium

Dr. Luis Fernando Leon-Fernandez

Vlaamse Instelling voor Technologisch Onderzoek, Mol, Belgium

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/189148

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 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).