

Special Issue

Electrocatalysis and Electro(catalytic)synthesis for Sustainable Processes

Message from the Guest Editors

The world demands an independence of fossil fuel process and lower global CO₂ emissions. This is particularly important in the chemical industry, as it is one of the larger contributors to global greenhouse emissions where very energy-demanding processes are used to produce commodity and high-value chemicals. In this landscape, electrochemistry and electrocatalysis have become very attractive processes, and in fact, electrolysis might represent a total independence of fossil fuel in the production process of chemicals. The use of electrochemistry offers several advantages. Notably, the most important is the direct use of renewable electricity to enable bond formation. In addition, electrochemical processes enable operation at mild temperatures, lower pressures, and with less waste production. For all these reasons, electrochemistry and electrocatalysis are assuming a fundamental role in the development of more sustainable and environmentally-friendly industrial technologies.

Guest Editors

Dr. Marta Costa Figueiredo

Department of Chemical Engineering and Chemistry, Inorganic Materials & Catalysis, Eindhoven University of Technology, 5612 AZ Eindhoven, The Netherlands

Dr. Amanda Garcia

Van't Hoff Institute for Molecular Sciences - University of Amsterdam, The Netherlands

Deadline for manuscript submissions

closed (31 March 2021)



Catalysts

an Open Access Journal
by MDPI

Impact Factor 4.0
CiteScore 7.6



mdpi.com/si/49395

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).