

Special Issue

Plasma Catalysis

Message from the Guest Editor

Plasma catalysis is gaining increasing interest for various gas conversion applications, such as CO₂ conversion, N₂ fixation, CH₄ conversion and air pollution control. Plasma catalysis allows thermodynamically difficult reactions to proceed at ambient pressure and temperature. However, plasma is very reactive but not selective, and thus a catalyst is needed to improve the selectivity. Plasma catalysis is quite complicated, as the plasma will affect the catalyst and vice versa. Moreover, due to the reactive plasma environment, the most suitable catalysts will probably be different from thermal catalysts. More research is needed to better understand the plasma–catalyst interactions, in order to further improve the applications. Submissions to this Special Issue are welcome in the form of original research papers or short reviews that reflect the state of the art in the above-mentioned applications.

Guest Editor

Prof. Dr. Annemie Bogaerts

Department of Chemistry, University of Antwerp, Campus Drie Eiken – Room B2.09, Universiteitsplein 1, Wilrijk, BE-2610 Antwerp, Belgium

Deadline for manuscript submissions

closed (30 November 2018)



Catalysts

an Open Access Journal
by MDPI

Impact Factor 4.0
CiteScore 7.6



mdpi.com/si/13081

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).