

Special Issue

Emerging Flavonoid-Based Systems in Sustainable and Green Catalysis

Message from the Guest Editors

Flavonoids are naturally occurring polyphenolic compounds widely distributed in fruits, vegetables, and medicinal plants, known for their antioxidant and diverse bioactive properties. In recent years, increasing attention has been given to their versatile chemical behaviour and their potential role in the development of functional materials for catalysis and related applications. Due to their rich structural diversity and coordination ability, flavonoid-based systems and their derivatives can contribute to the design of novel catalytic platforms with tunable properties. These may be applied in a variety of transformations, including oxidation–reduction processes, and environmentally relevant reactions aligned with green chemistry principles. Further optimization through structural modification or incorporation into composite systems can enhance their stability, activity, and applicability. This Special Issue aims to provide a broad forum for research on flavonoid-based systems and bio-inspired catalytic materials, including synthesis, characterization, mechanistic studies, and catalytic applications. It seeks to highlight recent advances in sustainable catalysis.

Guest Editors

Dr. Monica Trif

Dr. Ljiljana Mihajlović

Dr. Maria João Ferreira

Dr. Milan Milovanović

Deadline for manuscript submissions

28 February 2027



Catalysts

an Open Access Journal
by MDPI

Impact Factor 4.5
CiteScore 8.3



mdpi.com/si/283852

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 4.5
CiteScore 8.3



[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 13.3 days after submission; acceptance to publication is undertaken in 4.6 days (median values for papers published in this journal in the first half of 2026).