

Special Issue

Innovative Nano and Micro Heterogeneous Catalysts for Wastewater Treatment and Industrial Processes

Message from the Guest Editors

A notable number of materials, at micro or nano-scale, have been produced in the last twenty years. Between these novel materials, heterogeneous catalysts, directly suspended as a powder in the liquid phase in stirred-tank reactors or supported on packing materials to fill packed-bed reactors, have been widely adopted to develop heterogeneous catalyzed industrial processes or for the treatment of complex wastewaters. Fenton treatment still represents a suitable catalytic process for the removal of various organic contaminants as well as for the recovery/removal of heavy metals and can be developed in different ways, also without the necessity of hydrogen peroxide addition.

In this Special Issue, interested researchers are invited to submit original research papers, as well as review articles, on any topic related to the application of heterogeneous catalysts for the development of industrial production processes or wastewater processes. The studies should report the complete reuse of the treated wastewater and of the used catalyst in another process (for industrial or civil/agricultural uses), focusing on the overall costs and sustainability of the proposed processes.

Guest Editors

Prof. Dr. Giorgio Vilardi

Department of Chemical Engineering Materials Environment, Sapienza University of Rome, 00185 Rome, Italy

Dr. Javier Miguel Ochando-Pulido

Department of Chemical Engineering, University of Granada, 18071 Granada, Spain

Deadline for manuscript submissions

closed (20 November 2021)



Catalysts

an Open Access Journal
by MDPI

Impact Factor 4.0
CiteScore 7.6



mdpi.com/si/39824

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).