

Special Issue

Nanoparticles in the Catalysis

Message from the Guest Editors

The present Special Issue aims to combine a group of articles devoted to one of the most important areas in the field of catalysis, namely, catalysis by nanoparticles. Nanoparticles are the most common form of modern catalytic materials. Nanoparticles of very different chemical compositions and shapes (grains, rods, wires), supported by various carriers or unsupported, find their applications in organic synthesis, the photodegradation and chemical degradation of pollutants, the capture of carbon dioxide emissions, in the electrodes of fuel cells, and in other electrochemical power sources. The Special Issue will especially target synthetic catalysts, i.e., catalysts which are devised for the synthesis of organic compounds. Some specific reactions where nanoparticle catalysts are used include epoxidation, selective oxidation, selective reduction, hydrogenation, oxygen reduction, alcohol oxidation, and coupling reactions. Particular attention will be paid to the development of new, promising ways to synthesize active, stable, and selective nanocomposite catalysts. Articles devoted to applications of nanoparticle catalysts in various fields are welcome.

Guest Editors

Dr. Vitali A. Grinberg

Frumkin Institute of Physical Chemistry and Electrochemistry, Russian Academy of Sciences, Leninsky Prospekt 31, Building 4, 119071 Moscow, Russia

Dr. Alexander D. Modestov

Frumkin Institute of Physical Chemistry and Electrochemistry, Russian Academy of Sciences, Leninsky Prospekt 31, Building 4, 119071 Moscow, Russia

Deadline for manuscript submissions

closed (31 August 2023)



Catalysts

an Open Access Journal
by MDPI

Impact Factor 3.8
CiteScore 6.8



mdpi.com/si/118126

Catalysts
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 3.8
CiteScore 6.8



[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,
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 12.9 days after
submission; acceptance to publication is undertaken in 2.8
days (median values for papers published in this journal in
the first half of 2024).