Special Issue

Advanced Photocatalytic Nanomaterials for Energy Conversion and Environmental Remediation

Message from the Guest Editors

The purpose of this special issue is to collect the latest research results in the field of photocatalysts, both from a fundamental and applied perspective. The areas of focus for this special issue include: photocatalytic materials for water splitting, CO2 conversion, nitrogen fixation, pollutant degradation, and organic synthesis, first-principles calculation of photocatalytic materials, design and modification strategies of photocatalytic materials, analysis of photocatalytic principles, and characterization methods. Welcome to submit review or research papers on the preparation, properties, mechanism, and application of photocatalytic materials

Guest Editors

Prof. Dr. Junying Zhang
School of Physics, Beihang University, Beijing 100191, China

Prof. Yong Chen
Technical Institute of Physics and Chemistry, Chinese Academy of Sciences, Beijing 100190, China

Prof. Dr. Jungang Hou
School of Chemical Engineering, Dalian University of Technology, Dalian 116024, China

Deadline for manuscript submissions

closed (31 December 2022)

Nanomaterials

an Open Access Journal by MDPI

Impact Factor 4.3
CiteScore 9.2
Indexed in PubMed

mdpi.com/si/82019

Nanomaterials
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
nanomaterials@mdpi.com

mdpi.com/journal/nanomaterials

Nanomaterials

an Open Access Journal by MDPI

Impact Factor 4.3
CiteScore 9.2
Indexed in PubMed

mdpi.com/journal/nanomaterials

MDPI

About the Journal

Message from the Editor-in-Chief

Nanoscience and nanotechnology are exciting fields of research and development, with wide applications to electronic, optical, and magnetic devices, biology, medicine, energy, and defense. At the heart of these fields are the synthesis, characterization, modeling, and applications of new materials with lower nanometer-scale dimensions, which we call “nanomaterials”. These materials can exhibit unusual mesoscopic properties and include nanoparticles, coatings and thin films, metal–organic frameworks, membranes, nano-alloys, quantum dots, self-assemblies, 2D materials such as graphene, and nanotubes. Our journal, *Nanomaterials*, has the goal of publishing the highest quality papers on all aspects of nanomaterial science to an interdisciplinary scientific audience. All of our articles are published with rigorous refereeing and open access.

Editor-in-Chief

Prof. Dr. Eugenia Valsami-Jones
School of Geography, Earth and Environmental Science, University of Birmingham, Birmingham B15 2TT, UK

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, CAPlus / SciFinder, Inspec, and other databases.

Journal Rank:

JCR - Q2 (Physics, Applied) / CiteScore - Q1 (General Chemical Engineering)