Special Issue

Photocatalytic Nanomaterials in Water Decontamination

Message from the Guest Editors

Photocatalytic nanomaterials are widely used in water environment remediation. Drugs, dyes, pesticides, oils, heavy metal ions, bacteria, etc. in wastewater or polluted water can be efficiently treated by photocatalysis. In order to deal with more refractory pollutants and improve the removal rate of pollutants by photocatalytic oxidation/reduction, efforts should be made to improve the activity of photocatalysts. In addition, the impact on the water environment after repair should be considered. While having good photocatalytic activity, the material should have excellent performance: low or no toxicity and reusability.

In the past several decades, various kinds of photocatalytic nanomaterials were developed, including TiO2, Bi2O3, ZnO, WO3, MOFs, COFs, etc. The present Special Issue titled “Photocatalytic Nanomaterials in Water Decontamination” aims to present the current state-of-the-art in the use of photocatalytic nanoparticles for the removal of pollutants from water. In the present Special Issue, we invite contributions from leading groups in the field, with the aim of giving a balanced view of the current state-of-the-art in this discipline.

Guest Editors

Prof. Dr. Qi Wang

Dr. Shijie Li

Dr. Derek Hao

Deadline for manuscript submissions

closed (30 June 2023)

Nanomaterials

an Open Access Journal by MDPI

Impact Factor 4.3
CiteScore 9.2
Indexed in PubMed

mdpi.com/si/132844

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)