Special Issue

Catalysis and Adsorption of Nanomaterials in Wastewater Remediation

Message from the Guest Editor

In recent years, water pollution has become a serious environmental problem. Among the various techniques used for wastewater treatment, adsorption is one of the promising treatment options for pollutant removal due to its efficiency, operational simplicity, and inexpensiveness. Another technique is photocatalysis, which has a promising future for the treatment of a variety of wastes due to its utilization of visible light to photo-degrade organic and inorganic contaminants. Nanomaterials, due to their unique properties, such as their large specific surface area, high reactivity, and selectivity, have become new materials for the removal of different pollutants from wastewater. This Special Issue will focus on the synthesis and characterization of new types of nanomaterials and their applications as adsorbents or photocatalysts for pollutant removal from wastewater. In this Special Issue, we invite contributions of original research articles (full papers and communications), as well as review articles.

Guest Editor

Dr. Maria-Loredana Soran

National Institute for Research and Development of Isotopic and Molecular Technologies, 67-103 Donat Street, 400293 Cluj-Napoca, Romania

Deadline for manuscript submissions

closed (25 February 2025)

Nanomaterials

an Open Access Journal by MDPI

Impact Factor 4.3
CiteScore 9.2
Indexed in PubMed

mdpi.com/si/191894

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)