Special Issue

Advanced Nanomaterials for Water Remediation

Message from the Guest Editors

Water contamination is one of the most critical environmental crises and one of humankind's most considerable challenges. The World Health Organisation estimates that approximately 800,000 people die yearly from contaminated water consumption. The most pressing issues result from the increasing use of persistent contaminants in anthropogenic activities that endanger aquatic organisms and humans and the obsolescence of traditional water and wastewater treatment plants against these contaminants. Thus, to overcome this deficiency, it is imperative to develop nanomaterials (e.g., nanoparticles, nanotubes, and metallic organic frameworks) that can be used in water and wastewater remediation due to their unique physical–chemical properties, such as large surface area. Catalytic, photocatalytic, and adsorptive nanomaterials have been widely employed to remove contaminants efficiently. In the scope of sustainability, special attention is paid to novel green synthesis routes that yield non-toxic nanomaterials.

Guest Editors

Prof. Dr. Fernanda Cássio

Dr. Pedro Manuel Martins

Prof. Dr. María Carmen Rodríguez-Argüelles

Deadline for manuscript submissions

closed (1 July 2023)

Nanomaterials

an Open Access Journal by MDPI

Impact Factor 4.4
CiteScore 8.5
Indexed in PubMed

mdpi.com/si/142342

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

mdpi.com/journal/nanomaterials

MDPI

Nanomaterials

an Open Access Journal by MDPI

Impact Factor 4.4
CiteScore 8.5
Indexed in PubMed

mdpi.com/journal/nanomaterials

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 (Chemistry, Multidisciplinary) / CiteScore - Q1 (General Chemical Engineering)

MDPI