Special Issue

Application of Nanomaterials and Nanotechnology in Water Treatment

Message from the Guest Editor

Clean water has become an increasingly precious resource. Most manufacturing and living activities consume large volumes of water and generate large volumes of polluted wastewater. Providing sufficiently safe and clean water is critical for peoples' daily life and society's development. Therefore, various technologies have been developed for water treatment aiming at sustainable development. The use of nanomaterials and nanotechnology holds the promise of producing potable water and treating polluted wastewater. The large surface areas and tunable surface chemistry allow the used nanomaterials to increase and control the solid–water interface, directly removing or destroying the undesired species such as salts and contaminants. Additionally, nanomaterials provide ideal tools for the development of novel water treatment processes and devices. This Special Issue of *Nanomaterials* will attempt to cover a wide range of water treatment where nanomaterials and nanotechnology play critical roles. The topics include, but are not limited to, nanomaterials, their composites, nanofabrication, process and device design.

Guest Editor

Dr. Zheng Ling
School of Energy & Power Engineering, Dalian University of Technology, Dalian 116024, China

Deadline for manuscript submissions

closed (30 June 2022)

Nanomaterials

an Open Access Journal by MDPI

Impact Factor 4.3
CiteScore 9.2
Indexed in PubMed

mdpi.com/si/80002

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)