



## Advanced Nanomaterials for Water Remediation (2nd Edition)

Guest Editors:

### **Dr. Pedro Manuel Martins**

1. Centre of Molecular and Environmental Biology (CBMA), Department of Biology, University of Minho, Campus de Gualtar, 4710-057 Braga, Portugal  
2. IB-S–Institute of Research and Innovation on Bio-Sustainability, University of Minho, 4710-057 Braga, Portugal

### **Dr. Noelia González-Ballesteros**

Departamento de Química Inorgánica, Universidade de Vigo, 36310 Vigo, Spain

Deadline for manuscript submissions:

**10 August 2024**

### **Message from the Guest Editors**

Water is necessary for life, and access to affordable and clean water is a requirement for assuring living quality. However, it is a limited resource, with the threat of scarcity and pollution being among the most critical environmental concerns. 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, endangering aquatic organisms and humans, and the obsolescence of traditional water and wastewater treatment plants against these contaminants.

The use of nanotechnology to overcome this deficiency appear to be a promising strategy. Nanomaterials, due to their unique physical–chemical properties, can be employed in water and wastewater remediation through several mechanisms such as adsorption, filtration or catalysis/photocatalysis. A thorough investigation is also vital in terms of nanomaterials' ecotoxicity for determining whether the produced materials are harmful to aquatic organisms and understanding how they affect ecosystems, food chains, and the putative bioaccumulation process.





an Open Access Journal by MDPI

## Editor-in-Chief

### **Prof. Dr. Shirley Chiang**

Department of Physics, University  
of California Davis, One Shields  
Avenue, Davis, CA 95616-5270,  
USA

## 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.

## 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](#), [CAPus / SciFinder](#), [Inspec](#), and [other databases](#).

**Journal Rank:** JCR - Q1 (*Physics, Applied*) / CiteScore - Q1 (*General Chemical Engineering*)

## Contact Us

*Nanomaterials* Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/nanomaterials](http://mdpi.com/journal/nanomaterials)  
[nanomaterials@mdpi.com](mailto:nanomaterials@mdpi.com)  
[X@nano\\_mdpi](#)