



an Open Access Journal by MDPI

Nanostructured Composite and Hybrid Materials for Pollution Remediation and Bio-Waste Valorization

Guest Editors:

Dr. Dimitrios Giannakoudakis

School of Chemistry, Aristotle
University of Thessaloniki,
54124 Thessaloniki, Greece

**Prof. Dr. Konstantinos S.
Triantafyllidis**

Laboratory of Chemical and
Environmental Technology,
Department of Chemistry,
Aristotle University of
Thessaloniki, GR 54124
Thessaloniki, Greece

Message from the Guest Editors

This Special Issue aims to collect contributions on novel nanostructured composites and hybrid materials with high performance in the removal—adsorptive or catalytic—of hazardous compounds, as well as in the conversion of biomass towards high-added-value chemicals, such as in the selective oxidation of hydroxymethylfurfural (HMF) to furandicarboxylic acid (FDCA), the hydrogenation of furans (furfural, HMF) to the corresponding furanics (methylfuran (MF), dimethylfuran (DMF), methyltetrahydrofuran (MTHF)), the hydrodeoxygenation of oxygenated bio-oil compounds towards alkane and hydrocarbon fuels, etc.

Deadline for manuscript
submissions:

closed (30 September 2021)



mdpi.com/si/39394

Special Issue



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, CAPlus / SciFinder, Inspec, and other databases.

Journal Rank: JCR - Q2 (*Chemistry, Multidisciplinary*) / CiteScore - Q1 (General Chemical Engineering)

Contact Us

Nanomaterials Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/nanomaterials
nanomaterials@mdpi.com
[X@nano_mdpi](https://x.com/nano_mdpi)