Special Issue

Carbon-Based Nanomaterials for Adsorption and Removal of Pollutants

Message from the Guest Editors

This Special Issue aims to present the latest research outlining the progress in the development and application of carbon-based nanomaterial adsorbents for the removal of environmental pollutants. Innovative and novel works on carbon-based adsorbents will be the focus of this Special Issue not only in terms of basic adsorbent characterization but also in demonstrating technology applications for in-field treatment. Research studies that investigate the practical application of carbon-based nanomaterial adsorbents, including upscaled testing, techno-economic feasibility studies, and the regeneration and recovery of adsorbents, are also welcome. In this Special Issue, original research articles and reviews are welcome. Research areas may include (but are not limited to) the following:

- Synthesis and application of novel carbon-based nanomaterial adsorbents;
- Innovative and practical technology applications;
- Integration with other technologies to remove emerging pollutants;
- Techno-economic feasibility study;
- Regeneration and recovery of adsorbent;
- Theory, modeling, and simulation.

We look forward to receiving your contributions.

Guest Editors

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Deadline for manuscript submissions

closed (10 January 2024)

Nanomaterials

an Open Access Journal by MDPI

Impact Factor 4.3
CiteScore 9.2
Indexed in PubMed

mdpi.com/si/135663

Nanomaterials
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mdpi.com/journal/nanomaterials

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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

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