Special Issue

Advances in MOF or COF-Derived Nanomaterials and Nanocomposites

Message from the Guest Editor

This Special Issue will provide a comprehensive overview on recent advances in designing and advancing organic–inorganic hybrid materials for gas separation, catalysis, thermal energy storage, etc. The selected articles will provide a state-of-the-art overview of the progress over the last years in the design, synthesis, characterization, simulation, and application of organic–inorganic hybrid materials. Potential topics include but are not limited to the following:

- Development and characterization of new organic–inorganic hybrid materials;
- Calculation and simulation of the structure–property relationships of organic–inorganic hybrid materials;
- Incorporation of different inorganic substances in the polymeric matrix, such as metal/metal oxide/sulfide/phosphide, graphene, etc.;
- Studying the potential applications of organic–inorganic hybrid materials;
- Separation and purification of gases or liquids;
- Storage of gases (H2, CO2, CH4, etc.);
- Desalination of sea water;
- Thermal energy storage;
- Lithium battery material.

Guest Editor

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Deadline for manuscript submissions

closed (20 February 2024)

Nanomaterials

an Open Access Journal by MDPI

Impact Factor 4.3
CiteScore 9.2
Indexed in PubMed

mdpi.com/si/178816

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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. We are proud of our increasing impact factor and ability to provide rapid decisions to authors.

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