

## Special Issue

# Self-Assembled Nanocomposites and Nanostructures for Environmental and Energetic Applications

### Message from the Guest Editors

Self-assembled nanocomposites and nanostructures are currently attracting considerable interest from the fields of environment and energy due to their chemical structures and components/functional groups. The variety of self-assembled nanostructured materials and composites (particles, films, gels, composites, etc.) display significantly different relative chemical reactions and modifications, as well as application performance (e.g., new chemical reactions, organic semiconductors, photovoltaic technology, photocatalysts, biosensors, and energy materials for fuel cells and batteries). In this Special Issue, we cordially invite investigators to contribute original research and review articles that will improve our understanding of the key scientific and technological problems in new chemical reactions and modifications, as well as relative environmental/energetic applications of self-assembled nanocomposites and nanostructures.

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### Guest Editors

Prof. Dr. Tifeng Jiao

Prof. Dr. Byoung-Suhk Kim

Prof. Dr. Peizhi Guo

Prof. Dr. Bingbing Li

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### Deadline for manuscript submissions

31 December 2025



## 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.

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### Editor-in-Chief

Prof. Dr. Eugenia Valsami-Jones

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