

## Special Issue

# Advanced Nanomaterials for Adsorption Purposes

### Message from the Guest Editor

Through human activities and industrial production arise serious environment issues. Adsorption processes have been well studied in the environmental and sustainable sciences, including wastewater treatment, soil remediation, air pollution control, noise elimination and electromagnetic interference elimination, etc. During the past few years, there has been a tremendous amount of research on the use of nanomaterials for adsorption processes thanks to their tunable synthesis routes, heterogeneous structures, and outstanding properties. Activated carbon, carbon nanofibers, carbon nanotubes, graphene, zeolites, metal–organic frameworks, and zeolitic imidazolate frameworks have been reported as advanced candidates for those purposes. This Special Issue of *Nanomaterials* will aim to cover the most recent advances in nanomaterials for adsorption processes, concerning not only their synthesis and characterization, but especially their properties and functions. The format of welcomed articles includes full papers, communications, and reviews.

### Guest Editor

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### Deadline for manuscript submissions

closed (31 December 2022)



## Nanomaterials

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## About the Journal

### 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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