



Nanocontainers, Nano-Adsorbents, and Their Polymer Composites

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Message from the Guest Editor

The aim of this Special Issue is to summarize or to publish for the first time the recent progresses in the synthesis, modification, characterization, and applications of nanocontainer and nano-adsorbent that are used as they are or as fillers for polymer composites, with outstanding properties in a wide range of applications. Topics include, but are not limited to the following: Synthesis of organic and inorganic nanocontainers; Structural characterization and modification of both natural and synthetic nano-adsorbents; Computational studies on the structural characteristics and adsorption properties of nanocontainers; Modification and/or functionalization of nanocontainers; Chemical–physical characterization of nanocontainers; Mechanism of loading and release in nanocontainers; Nanocarriers for drug delivery systems; Nanocontainers for catalytic and application, wastewater treatment, food preservation and packaging, cultural heritage applications; Nano-adsorbents for the removal of heavy metals and dyes; Separation and pre-concentration; Remediation.





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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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