

Special Issue

Nanomaterials with Functional Polymer Elements

Message from the Guest Editors

The application of advanced polymer synthesis techniques have enabled the preparation of a wide array of functional nanomaterials. These techniques have yielded a broad suite of polymeric nanomaterials that have found applications in a variety of industries and research fields. In addition, the combination of functional polymers (e.g., stimuli-responsive, anti-fouling, biocompatible, antimicrobial, etc.) with nanostructured materials (e.g., iron oxide nanoparticles, graphene, carbon nanotubes, etc.) leads to novel hybrid nanomaterials with desirable physicochemical properties. In this Special Issue of *Nanomaterials*, we will highlight cutting-edge research on the topic of "Nanomaterials with Functional Polymer Elements". In particular, this Special Issue will feature new developments in the synthesis, characterization and application of all polymeric nanomaterials and polymer-functionalized nanoparticles provided functional polymers are the key elements. We look forward to receiving your contribution to this exciting Special Issue of *Nanomaterials*.

Guest Editors

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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.

Editor-in-Chief

Prof. Dr. Eugenia Valsami-Jones

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