

Special Issue

Functional Nanomaterials and Polymer Big Data

Message from the Guest Editors

We are pleased to invite authors to contribute original research and review articles covering the current progress on functional materials and polymer big data. Functional materials are materials that have special properties in electricity, magnetism, sound, light, heat and other aspects, or ones that show special functions under their action. Polymer big data make use of artificial intelligence (deep learning material big data analysis) through data analyses to predict material properties, establish rapid development and the reliable application of high-performance materials. This Special Issue aims to present comprehensive research outlining progress on the application of nanostructures to improve the performance of functional materials and polymer big data. This includes electromagnetic shielding materials, conductive and heat-conducting materials, oil-water separation materials, luminescent materials, polymer big data, etc. In this Special Issue, original research articles and reviews are welcome. Research areas may include (but are not limited to) the following: nanomaterials, functional materials, polymer big data and computational materials.

Guest Editors

Prof. Dr. Lan Xie

Dr. Bai Xue

Dr. Xiang Lu

Deadline for manuscript submissions

closed (20 February 2023)



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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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