Special Issue

Design, Synthesis and Application of Carbon-Based Nanomaterials

Message from the Guest Editor

Carbon-based nanomaterials—including graphene, carbon nanotubes, fullerenes, nanofibers, and hybrid structures—remain at the forefront of nanotechnology because of their exceptional and tunable properties. This Special Issue seeks to showcase high-impact research and comprehensive reviews highlighting recent advancements in the design, synthesis, and application of these versatile materials. Our goal is to bridge fundamental research with transformative technologies, fostering a dialogue between theoretical innovation and practical implementation. This Special Issue will provide a platform for interdisciplinary work that pushes the boundaries of carbon-based science. We invite original research articles and review papers that demonstrate innovation in creating the next generation of carbon nanomaterials. We look forward to receiving your contributions and to advancing the field together.

Guest Editor

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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. We are proud of our increasing impact factor and ability to provide rapid decisions to authors.

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