Special Issue

Carbon Nanocomposites: Synthesis, Properties and Applications

Message from the Guest Editors

Carbon nanomaterials, mainly composed of *sp*2 and *sp*3, are hybridized carbon atoms regulated into a monolithic network. Because of their unique structure and size, they are endowed with extraordinary mechanical, electrical, thermal, optical, adsorption, and other significant properties that makes them ideal. Designing and preparing carbon nanocomposites is an effective way to further improve the application performance of carbon nanomaterials and expand their application fields. Recently, combined with carbon nanomaterials such as graphene and carbon nanotubes, a variety of new methods for the synthesis of functional carbon nanocomposites have been developed, and the applications of these materials in the fields of mechanical properties, adsorption, energy storage, and catalysis have been explored. We invite authors to contribute to this Special Issue with research articles and comprehensive review focusing on the latest theoretical development and practical application of carbon nanocomposites in synthesis and properties.

Guest Editors

Dr. Xiao-Wen Lei

Prof. Dr. Toshiaki Natsuki

Dr. Jin-Xing Shi

Deadline for manuscript submissions

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Nanomaterials
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
nanomaterials@mdpi.com

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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
School of Geography, Earth and Environmental Science, University of Birmingham, Birmingham B15 2TT, UK

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