Special Issue

Cutting-Edge Technologies Developed from Carbon-Based Nanomaterials for Sensing, Treatment and Synthesis of (In)organic Molecules

Message from the Guest Editors

Carbon-based nanomaterials—nanotubes, graphene, nanofibers, fullerene, quantum dots, etc.— are a remarkable scientific innovation, which are being increasingly used in various industries. These nanomaterials can be used as a reaction interface after chemical or biological functionalization, as well as fillers to add new properties to (nano)composites, expanding the spectrum of possible applications. Recently, the use of 0D-3D nanostructured carbon allotropes have furthered the development of cutting-edge technologies in several fields, such as environment, agriculture, energy, pharmacology, and medicine. This Special Issue aims to collate original research papers, review articles, communications, as well as short notes that focus on new (experimental or theoretical) advancements, challenges, and outlooks concerning production, characterization, and application of carbon-based nanomaterials for the analysis, treatment and synthesis of (in)organic molecules. See more information in https://www.mdpi.com/si/186286

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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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