Special Issue

Functional Carbon-Based Nanocomposite and Applications

Message from the Guest Editors

This Special Issue aims to collect advances in the synthesis, functionalization, and characterization of carbon-based nanocomposites. Special attention is given to one-pot procedures, advanced synthesis processes (sol–gel, hydrothermal, and ionic liquids) and activation treatments (ultrasound and microwaves) for the preparation of nanocomposites. The application of these nanomaterials in sensors; electrochemical devices; energy; heterogeneous catalysts, including photo-, sono-, electro-, and thermoprocesses; adsorption and molecular sieves for the separation /concentration of substances is also of high interest. We are pleased to invite you to submit a manuscript for this Special issue. Original research articles, short communications, and reviews are welcome. We look forward to receiving your contributions.

Guest Editors

Dr. Sergio Morales-Torres

Dr. Luisa Pastrana-Martínez

Prof. Dr. Francisco José Maldonado-Hódar

Deadline for manuscript submissions

closed (15 May 2023)

Nanomaterials

an Open Access Journal by MDPI

Impact Factor 4.3
CiteScore 9.2
Indexed in PubMed

mdpi.com/si/97110

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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.

Editor-in-Chief

Prof. Dr. Eugenia Valsami-Jones
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