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Recent Functionalization Approaches to Enhance the Applicability of Carbon Nanostructures

Guest Editor:

Dr. Sonia Merino
Departamento de Química Inorgánica, Orgánica y Bioquímica, Facultad de Ciencias y Tecnologías Químicas-IRICA, Universidad de Castilla-La Mancha, 13071 Ciudad Real, Spain

Deadline for manuscript submissions:
closed (30 November 2021)

Message from the Guest Editor

Dear Colleagues,

Carbon nanomaterials (nanotubes, graphene, fullerenes, nanodots, nanodiamonds, and their derivates) have attracted significant interest from science and industry. Their excellent properties make them promising materials in many application fields. Modification of their surfaces with functional groups offers the opportunity to enhance their chemical and physical properties. For instance, chemical functionalization can improve their solubility in most solvents and prevent their aggregation. More importantly, surface modification decreases their toxicity and improves biocompatibility, showing potential for biomedical applications. Often, these transformations require tedious and harsh treatments that can alter the carbon nanostructure's lattice and therefore modify their properties. This Special Issue aims to compile new functionalization approaches that expand the applications of these nanomaterials, including mild and environmental conditions, and non-conventional methods...For further reading, please follow the link to the Special Issue website at: https://www.mdpi.com/si/46873.

Dr. Sonia Merino
Guest Editor

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Editor-in-Chief

Prof. Dr. Shirley Chiang
Department of Physics, University of California Davis, One Shields Avenue, Davis, CA 95616-5270, USA

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.

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Nanomaterials Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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