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The Synthesis and Applications of Carbon Nanotubes

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Message from the Guest Editors

Dear Colleagues,

Since the beginning of the 1990s, and after its discovery by Iijima, carbon nanotubes (CNTs) have experienced an extraordinary scientific interest, owing to their exceptional mechanical, electrical and thermal properties. The synthesis procedures described up to now are very varied (chemical vapor deposition, arc-discharge, laser ablation and sol-gel methods), producing materials with different characteristics, aspect ratios, and potential uses. CNTs have a very wide range of applications, in fields as heterogeneous as chemistry, technology, medicine, engineering, or materials science. CNTs modified by combination with foreign materials (for example, atoms, molecules, chemical groups, or crystals) have new or improved chemical reactivity properties, which the pristine CNTs do not possess.

This Special Issue is an ideal platform to disseminate the most outstanding scientific results that constitute the state-of-the-art of these unprecedented materials.

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Dr. Carmen Morant

Guest Editors



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Special Issue



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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.

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