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Nanomechanics of Carbon Nanomaterials

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Message from the Guest Editors

Dear Colleagues,

Miniaturization of structural components such as electronic/optic devices and MEMS/NEMS is a recent trend, the pace of which has accelerated over the past decade. The size of their components is now approaching nano/atomic scales, and it has been recognized that unusual fracture behaviors that are not observed in macroscopic materials occur in materials with nano/atomic dimensions. The dissemination of knowledge around fracture nanomechanics and mechanical characterization of such nanomaterials and possibilities of global use, hence, carry immense significance.

Topics included in this Special Issue on “Nanomechanics of Carbon Nanomaterials” cover a wide range of research in the field of nanomechanics of carbon nanomaterials and their nanocomposites. The main aim is to get a scientific understanding of the broad range of nanomechanics and mechanical properties of such carbon nanomaterials through the introduction of the state-of-the-art experimental and simulation techniques. See more information in

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Guest Editors

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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