Special Issue

Insights into Mechanical Deformation of Nanostructure-Reinforced Composites

Message from the Guest Editors

Dear colleagues In recent years, ideas have been cultivated to enable the global maximization of the benefits of nanotechnology. The advantages of nanocomposites have brought them much attention in the industry. Their classification is based on whether they are natural or synthetic, as well as whether they possess a metal, polymer, or ceramic matrix. Nanocomposites are used to compensate for inherent defects in the matrix or to improve its properties with the help of different nanostructures. Carbon nanotubes, graphene, titania and silica nanoparticles, clay nanoplates, and silicon carbide nanoparticles are among the most commonly used nanostructures. Materials can be given special properties by using these nanostructures in very low weight percentages. In this Special Issue, we aim to highlight the latest research in this important field and to publish the results of theoretical and experimental studies (particularly those with a molecular focus) with regard to the improvement of materials using nanoparticles.

Guest Editors

Dr. Mohammad Malikan

Dr. Shahriar Dastjerdi

Dr. Bekir Akgöz

Prof. Dr. Ömer Civalek

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Nanomaterials
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
nanomaterials@mdpi.com

mdpi.com/journal/nanomaterials

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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
School of Geography, Earth and Environmental Science, University of Birmingham, Birmingham B15 2TT, UK

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