Special Issue

Mechanics of Micro and Nano Structures and Materials

Message from the Guest Editors

This Special Issue will be a peer-reviewed forum for the publication of original papers dealing with the most important issues regarding the mechanics of micro and nano structures and materials and their application to the design of innovative materials and structures, as well as capturing scientific advancements in the design and development of sustainable polymer-fiber composites, mainly for building applications, through the use of additive manufacturing or 3D printing technology. Potential topics include but are not limited to the following: experimental and computational techniques in nanotechnology and nanoscience; nonlocal elasticity; nanoelectromechanical systems (NEMS) and the microelectromechanical systems (MEMS); bending; buckling; nonlinear free vibration; functionally graded (FG) sandwich nanobeams and nanoplates; strain and stress gradient models; concrete; rubber-like materials; nonlinear mechanics; additive manufacturing; polymer-fiber composites; sustainability.

Guest Editors

Dr. Rosa Penna
Prof. Dr. Luciano Feo
Prof. Dr. Francesco Fabbrocino

Deadline for manuscript submissions

closed (28 February 2022)

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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. We are proud of our increasing impact factor and ability to provide rapid decisions to authors.

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