Special Issue

Numerical Simulation and Experimental Studies of Wave Phenomena in Composite Materials

Message from the Guest Editors

As a prime step in understanding and analysis of complex wave phenomena in smart composite materials, efficient and accurate mathematical models and numerical simulation tools are required which are suitable for fast parametric studies at the development stage or for the implementation in real electromechanical devices and systems. In particular, they should take into account peculiarities of material microstructures, coupled mechanical and electrical fields, complex shapes of sensors and transducers, as well as wave scattering by localized or distributed inhomogeneities. Such simulation problems are often very complex and cannot be treated efficiently with simple analytical or conventional numerical tools, inspiring, therefore, the development of advanced computational methods for 3D wave dynamic problems. It is our pleasure to invite you to submit a manuscript for this Special Issue related to experimental and numerical studies of wave phenomena in composite materials. Full papers, short communications, and reviews are all welcome.

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Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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