Special Issue

Advances in Acoustic Metamaterials

Message from the Guest Editors

Since their introduction, phononic crystals and elastic metamaterials have been exploited for elastic wave manipulation (through frequency band-gaps, negative refraction, topological protection, non-reciprocal propagation, etc). In parallel, recent advances in material science and technology, including additive manufacturing, have allowed the practical realization of a huge variety of novel complex structures at various different length scales, leading to additional application opportunities in the field of wave control, focusing and collimation, noise reduction, and even earthquake protection.

This issue is intended to provide a platform for researchers working in the field to disseminate their ideas on the design and characterization of new configurations, highlighting novel dynamic phenomena and exploring additional promising applications. It should also stimulate a cross-fertilization between researchers of the field with other readers of the journal, providing the opportunity to find new potential research directions.

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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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