Special Issue

Metamaterials and Their Applications

Message from the Guest Editor

Metamaterials are a novel type of functional material, based on unique patterns or structures that enable them to interact with light and other sources of energy in ways that are not found in natural materials. Metamaterial structures provide characteristics and capabilities that are difficult to achieve when using conventional materials. Due to their unique acoustical, electromagnetic, optical, and mechanical properties, metamaterial technology has the potential to benefit almost every field of research and technology, including telecommunications, defense, biomedical imaging, sensing, optical computing, etc.This Special Issue aims to offer a timely platform for exhibiting the current work on metamaterial-based applications, including fundamental research, as well as for discussing breakthroughs in theory, numerical modeling, and experiments. Original research articles and topical reviews on subjects associated with metamaterials are also encouraged. The novel material characteristics and device capabilities enabled by metamaterial technology advances the development of the future electronic industry.

Guest Editor

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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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