Special Issue

Metamaterials and Metasurfaces: Fundamentals and Applications

Message from the Guest Editor

Metamaterials are artificial structures composed of subwavelength units arranged periodically or non-periodically. The geometric structure of each antenna resonator in the array and the arrangement of the entire array can be artificially designed. Digital coding-based information metamaterials have become a new development direction for metamaterials because of their field-programmable functions and ability to simultaneously control electromagnetic waves and digital information. A metasurface is a two-dimensional functional planar structure composed of many subwavelength unit structures. The rich and unique physical properties of metasurfaces and their flexible control capabilities for electromagnetic waves give them important application prospects in many fields such as cloaking technology, antenna technology, microwave and terahertz devices, and optoelectronic devices. The research on metamaterials and metasurfaces may become a new direction leading the development of new industries, new technologies, and new materials. It plays a certain role in promoting the advancement of aerospace, national defense, and civil science and technology.

Guest Editor

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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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