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Advances in Metamaterials: Structure, Properties and Applications

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submissions:

closed (10 June 2024)

Message from the Guest Editors

Dear Colleagues,

Metamaterials are artificial engineered structures that can control wave propagation in a way that cannot be achieved in nature. Metasurfaces, as a two-dimensional equivalent, can control the amplitude, phase and polarization of the wave in a planar way. The past decade of research has delivered many advances in the area of subwavelength resolution imaging, invisibility cloaks, holography, abnormal deflection and reflection, metalens and new antennas, etc. This Special Issue aims to gather recent advances, as well as ongoing challenges in metamaterials and metasurfaces, from its structure designs, desirable properties and practical applications.

It is our great pleasure to invite you to submit a manuscript to this Special Issue. Themes including, but not limited to:

- Novel metamaterial/metasurface design;
- Reconfigurable metamaterial/metasurface;
- Intelligent metamaterial/metasurface;
- Acoustic and elastic metamaterial/metasurface;
- Meta-antennas and meta-lenses;
- Transformation optics and invisibility cloaks;
- Absorbers and frequency selective surfaces;
- Plasmonics and surface waves;
- Multifunctional metadevices;
- Orbital angular momentum.



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Special Issue



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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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