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Advances in Metamaterials: Structure, Properties and Applications

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Deadline for manuscript submissions:
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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Message from the Editor-in-Chief

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