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Metamaterials and Metasurfaces: Fundamentals and Applications

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

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.

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Message from the Editor-in-Chief

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