



Theory and Applications of Metamaterials

Guest Editor:

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Message from the Guest Editor

Metamaterials are human-made materials which exhibit specific electromagnetic properties and functions, which are not available in any known natural material. Such properties include a negative refractive index, large positive refractive index, magnetism at optical frequencies, perfect absorption, and enhanced nonlinear optical properties, to name a few. Such extraordinary properties provide people with powerful tools to manipulate electromagnetic waves in a wide range of frequencies, from acoustic waves up to the optical regime. Therefore, metamaterials have been realized for a great variety of applications, such as electromagnetic shields, polarizers, energy harvesting, etc.

The main purpose of the proposed Special Issue is to explore aspects of metamaterials, both theoretically and experimentally, in order to understand in depth the origin of their fascinating properties. In addition, the present Special Issue aims to gather recent progress in possible and potential applications of metamaterials. Since both theoretical and experimental investigations are still being carried out in the area of metamaterials, this specified issue will contribute towards such a direction.





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Message from the Editor-in-Chief

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