

Special Issue

Progress and Application of Electromagnetic Materials

Message from the Guest Editor

Electromagnetic materials refer to materials that can manipulate electromagnetic waves, which can control the amplitude, phase, polarization, spectrum, and other characteristics of electromagnetic waves. In addition to natural materials, such as magneto-dielectric electromagnetic materials and various natural electromagnetic shielding materials, the research on artificial electromagnetic materials, also known as metamaterials, has also received extensive attention from researchers in recent years. Metamaterials refer to a kind of artificially structured media composed of periodically or non-periodically arranged subwavelength unit cells, which achieve exotic electromagnetic properties beyond the limits of naturally occurring materials. Metamaterials have shown significant applications in invisibility cloaks, lenses, antennas, etc. Metasurfaces, the two-dimensional counterpart of metamaterials, are attracting more and more attention recently. Metasurfaces have been widely reported with various functions, such as anomalous refraction, polarization conversion, vortex beam generation, holographic imaging.

Guest Editor

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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