Special Issue

Advanced Materials for Plasmonics, Metamaterials and Metasurfaces

Message from the Guest Editors

Metamaterials typically refer to artificial three-dimensional (3D), volumetric media composed of bulk metallic and/or dielectric constituent elements, which exhibit electromagnetic responses that are not found in nature and are radically different from those of their constituent materials. As two-dimensional embodiments of metamaterials, metasurfaces are planar devices composed of spatially varying subwavelength elements that could be designed to control the phase, amplitude, wavelength, and polarization of waves solely via engineering the geometry. Compared to traditional devices, the light weight, low loss, and integrable and conformable design make metasurfaces very attractive. Plasmonic metamaterials promise a far-reaching scientific and industrial impact. This Special Issue seeks to provide a current snapshot of recent advances, as well as highlight ongoing challenges in plasmonics, metamaterials, and metasurfaces, through collecting expert views and article contributions across a broad spectrum, including on the simulation, fabrication, experiment, and application of plasmonics, metamaterials, and metasurfaces.

Guest Editors

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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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