Special Issue

Terahertz Metamaterials and Their Applications

Message from the Guest Editor

Terahertz metamaterials have evolved significantly since their first demonstration about 15 years ago. They have emerged as relatively simple metallic structures and have made a long way towards numerous designs and applications. Metamaterials are used as highly susceptible sensors due to the strong resonances they possess. Electrically, optically and mechanically tunable metamaterials have paved the way to ultrafast tunable THz modulators, including highly controllable phase shifters, absorbers, beam steerers and spatial light modulators. Modern trends in the design of metamaterials, and in particular of THz metamaterials, include all-dielectric and phase-change material-based metamaterials and metasurfaces.

It is our pleasure to invite you to submit a manuscript for this Special Issue. Fundamental and applied research on the design, simulation, fabrication, characterisation and applications of terahertz metamaterials will be covered comprehensively, with special focus on dynamic and highly tunable metamaterials, all-dielectric metamaterials and metasurfaces and biomedical applications of terahertz metamaterials.

Guest Editor

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Deadline for manuscript submissions

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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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