Special Issue

Advances in Terahertz Metasurfaces

Message from the Guest Editor

Terahertz (THz) waves have broad application prospects in 6G communication, space exploration, nondestructive testing, biological analysis, and other fields. THz metasurfaces are periodic microstructure devices that control the time–space characteristics of THz waves at the sub-wavelength scale. They provide a wealth of manipulation dimensions and can manipulate almost all physical properties of THz waves, such as frequency, phase, amplitude, polarization, spin angular momentum (SAM), and orbital angular momentum (OAM). THz metasurfaces can not only manipulate any single physical attribute of THz wave but also multiple physical attributes synchronously, so they show lots of newfangled, very attractive performances that traditional quasi-optical elements do not have. This Special Issue aims to discuss the latest progress in THz metasurfaces, covering advanced applications, advanced design technologies, advanced micro–nano manufacturing technologies, and advanced characterization technologies of THz metasurfaces, as well as various fundamental physics for interaction of THz and matesurfaces. Research and review papers will be welcomed.

Guest Editor

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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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