Special Issue

Terahertz Materials and Technologies in Materials Science

Message from the Guest Editors

Terahertz (THz) metasurfaces, composed of subwavelength metallic or dielectric microstructural arrays with a deep-subwavelength thickness, behave as a novel platform for developing highly efficient and integrated THz functional devices. The development of THz metasurface devices has recently drawn a lot of attention in the fields of THz communication, sensing, display, holographic imaging, non-destructive testing, and electromagnetic cloaking. Various strategies have been proposed and realized to construct novel, efficient, intelligent, and integrable metasurfaces. This Special Issue, titled “Terahertz Materials and Technologies in Materials Science”, aims to provide a unique international forum for researchers working in THz photonics research and metasurface device development to report their latest endeavors in advancing this field, including the amplitude, phase, and polarization manipulation of THz through the novel microstructural design, the use of various external excitations, and the use of two-dimensional active materials.

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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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