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Terahertz Materials and Technologies in Materials Science

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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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