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Terahertz Metasurfaces: Advances and Applications

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Deadline for manuscript submissions:
closed (30 November 2023)

Message from the Guest Editors

Residing in the frequency domain between the microwave and infrared regions, terahertz (THz) radiation demonstrates some peculiar characteristics, such as low energy, high resolution, and satisfactory penetration, which renders it a suitable technology for advanced research. The THz spectral region offers a higher available bandwidth that could meet the ever-growing demand for higher data transfer rates. Meanwhile, considering intramolecular and intermolecular vibrations, including hydrogen bonds, van der Waals forces, and nonbonding (hydrophobic) interactions occurring in the THz band, THz technologies naturally open up an additional method for the identification of biological substances such as amino acids and DNA.

We can see rapid development in the field of metal plasmonics and dielectric resonators. Thus, we encourage submissions from researchers who are working on THz metasurfaces or metamaterials and whose research covers topics on materials, devices, sources, and biosensing, or other advanced applications. We also encourage submissions that involve 2D materials science, such as studies on graphene-based THz modulators and nanostructured narrow-band-gap THz detectors.

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Message from the Editor-in-Chief

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