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Terahertz (THz) Science in Advanced Materials, Devices and Systems

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Deadline for manuscript submissions:
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Message from the Guest Editors

Dear Colleagues,

This Special Issue invites manuscripts that document the recent advances in "Terahertz Science in Advanced Materials, Devices and Systems".

Terahertz science and technology, defined as the frequency range of 0.3–30 THz, has attracted a great deal of interest owing to its potential applications. Terahertz waves bridge electronics and photonics, as well as classical and quantum physics, located in an undeveloped research area.

We will consider theoretical, numerical, and experimental papers that cover, but are not limited to, these topics:

(1) Advances in THz sources, detectors, and components;

(2) Advanced functional materials for THz devices;

(3) Ultrafast carrier dynamics and THz nonlinear science, and new quantum physics in advanced materials;

(4) Progress in THz systems for novel applications such as:

industrial inspection, and non-destructive evaluation, defense and security, imaging and spectroscopy for bio/medical diagnostics, information processing and computing, electronics/ information/ broadband communications.