

Special Issue

Terahertz and Infrared Metamaterial Devices, 2nd Edition

Message from the Guest Editors

Terahertz and infrared metamaterials give rise to functional devices such as detectors, imagers, ultrathin flat lenses, and polarizers, among others. More intriguingly, metamaterials can be dynamically tuned to achieve reprogramming and reconfigurable devices, including spatial light modulators, beam manipulation, and phase modulation, to name a few. Terahertz and infrared devices have great potential in applications of next-generation communication, LiDARs, chemical and biological sensing, and advanced optical systems. Novel metamaterial components and devices are being developed to address the challenges in industry, agriculture, bio-medicine, and space exploration. Accordingly, this Special Issue aims to comprise a collection of research papers, communications, and review articles that focus on (1) novel designs, fabrication, and characterization techniques for terahertz and infrared metamaterials based on various physical principles as well as (2) new developments in terahertz and infrared devices enabled by metamaterials for various applications.

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