

Special Issue

Terahertz and Infrared Metamaterial Devices

Message from the Guest Editors

Metamaterial and their 2D counterparts (i.e., metasurfaces) consist of subwavelength metallic or dielectric unit cells that enable the on-demand tailoring of the effective medium properties in the full range of the electromagnetic spectrum. With the design of metamaterials, the interactions of light and matter are engineered to achieve various functions. The emerging metamaterials foster the development of optical components and devices from radiofrequencies to visible wavelengths, especially in the terahertz and infrared regimes. Terahertz and infrared metamaterials give rise to functional device. Terahertz and infrared devices have great potential in applications of next-generation communication, LiDARs, chemical and biological sensing, and advanced optical systems. Accordingly, this Special Issue aims to compose a gallery of research papers, communications, and review articles that focus on(1) novel designs, fabrication, and characterization techniques of terahertz and infrared metamaterials based on various physical principles; and(2) new developments in terahertz and infrared devices enabled by metamaterials for various applications.

Guest Editors

Dr. Xiaoguang Zhao

Department of Precision Instrument, Tsinghua University, Beijing 100084, China

Prof. Dr. Rui You

School of Instrument Science and Opto-Electronics Engineering, Beijing Information Science & Technology University, Beijing 100192, China

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Editor-in-Chief

Prof. Dr. Ai-Qun Liu

1. Department of Electrical and Electronic Engineering, The Hong Kong Polytechnic University, Hong Kong, China
2. School of Electrical and Electronic Engineering, Nanyang Technological University, Singapore 639798, Singapore

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