



Advances in Terahertz Metasurfaces

Guest Editor:

Dr. Jitao Li

School of Precision Instruments
and Optoelectronics Engineering,
Tianjin University, Tianjin 300072,
China

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Message from the Guest Editor

Terahertz (THz) waves have broad application prospects in 6G communication, space exploration, nondestructive testing, biological analysis, and other fields. THz metasurfaces are periodic microstructure devices that control the time–space characteristics of THz waves at the sub-wavelength scale. They provide a wealth of manipulation dimensions and can manipulate almost all physical properties of THz waves, such as frequency, phase, amplitude, polarization, spin angular momentum (SAM), and orbital angular momentum (OAM). THz metasurfaces can not only manipulate any single physical attribute of THz wave but also multiple physical attributes synchronously, so they show lots of newfangled, very attractive performances that traditional quasi-optical elements do not have. This Special Issue aims to discuss the latest progress in THz metasurfaces, covering advanced applications, advanced design technologies, advanced micro–nano manufacturing technologies, and advanced characterization technologies of THz metasurfaces, as well as various fundamental physics for interaction of THz and metasurfaces. Research and review papers will be welcomed.





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Editor-in-Chief

Prof. Dr. Maryam Tabrizian

1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada

2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

Message from the Editor-in-Chief

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Materials Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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