



Terahertz Optical Elements: Science and Technology

Guest Editor:

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Deadline for manuscript submissions:

closed (20 January 2022)

Message from the Guest Editor

In any system utilizing THz waves, the optical elements for shaping and manipulating the THz wave beam are indispensable components. This Special Issue is devoted to their fundamental principles and the current state-of-the-art in their development, investigation, manufacturing, and usage.

Areas of interest include (but are not limited to) the following main topics:

- Fundamentals and physical principles of the THz optics
- Terahertz sources and detectors
- Focusing lenses for THz waves
- Diffractive THz optical elements (e.g., beam homogenizers), collimators, beam splitters, reflectors, polarizers, attenuators, filters
- Computational design of THz optical and quasi-optical elements
- Materials (including metamaterials) and advanced technologies (e.g. 3D-printing technology, laser treatment, etc.) for precise fabrication of THz optical components
- Production of optical elements for THz systems (scanners, cameras, imaging, and inspection devices)



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You are kindly invited to contribute to this Special Issue and present your latest results in this broad and rapidly expanding field of THz science and technology.

Special Issue



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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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