

Special Issue

New Insights into Optical Materials

Message from the Guest Editors

Optical materials are essential for controlling and manipulating electromagnetic radiation in various spectral regions, including the ultraviolet, visible, and infrared regions. This field has a rich history dating back to vision theory, geometric optics, and the development of optical devices, such as lenses and mirrors. Since then, optical materials have evolved in tandem with significant advancements in physics, resulting in novel materials and devices, including impurity-doped dielectric crystals, ceramics, semiconductors, glasses, polymers, rare-earth-doped materials, and nano-based composites. These materials have practical applications in fields such as biomedical devices, optical communication networks, imaging, photovoltaics, and optical storage media. This Special Issue aims to provide new insights into optical materials and their properties. It will cover a wide range of topics, including the development of new materials, the use of advanced optical materials in various applications, photonic crystal structure analysis, theoretical and computational modeling of optical materials, and the most recent advances in the field of nonlinear optical materials.

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You are invited to contribute a research article or a comprehensive review for consideration and publication in *Photonics* (ISSN 2304-6732). *Photonics* is an online open access journal covering both the fundamental and applications of optics and photonics. *Photonics* strives to provide an avenue to allow authors to disseminate their scientific findings—both theoretical/ simulations and experimental works—in highly accessible peer-reviewed journal publications. The manuscript in *Photonics* will be handled with quick turnaround production processing time. We welcome authors to submit their manuscripts for publications in *Photonics*. Our goal in *Photonics* is to enable fast dissemination of high impact works to the scientific community.

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