



## New Insights into Optical Materials

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### Message from the Guest Editors

Dear Colleagues,

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.

