



photonics

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Advances in Photonic Materials and Technologies

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Message from the Guest Editors

Photonic materials and technologies serve crucial roles in information processing, chemical sensors, biological imaging, light-emitting devices, and optical memory, among other essential applications. They cover a wide range of materials and material technologies, such as wide band-gap semiconductors, materials for magnetic data storage, diamond materials for extra-bright display screens, nanomaterials for next-generation displays, semiconductor laser materials, and so on.

This Special Issue will collect both reviews and original research papers that explore advances in photonic materials and photonic/optical systems. Topics of interest include but are not limited to the following areas:

Photonic materials; nonlinear optics; photonic devices; photonic sensors; nanophotonics; biophotonics; upconversion materials; quantum dots; nano-diamond; fluorescence microscopy; super-resolution microscopy; computational imaging; single-pixel imaging; plasmonic; polarization imaging; near-infrared imaging; unconventional imaging; lifetime, on-chip imaging.



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Special Issue