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Journal of Optical Materials



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Message from the Editor-in-Chief

Journal of Optical Materials is an international, peer-reviewed, open access journal dedicated to advancing research on optical materials and their applications. It provides a global platform for scientists and engineers to share discoveries across the full scope of optical materials—from crystals, glasses, and polymers to low-dimensional systems, metasurfaces, bio-inspired photonics, quantum optics, and AI-accelerated design. Covering fundamental synthesis to device integration, the journal ensures rapid dissemination of high-quality work and fosters interdisciplinary collaboration. We look forward to receiving submissions that will pioneer new horizons in photonic science and technology.

Editor-in-Chief

Prof. Dr. Jiyong Yao

Aims

The *Journal of Optical Materials* (ISSN 3042-9773) is an international, peer-reviewed, open access journal dedicated to advancing the understanding, development, and application of novel materials with unique optical properties. There is no restriction on the maximum length of papers. Our aim is to publish research that establishes clear, reproducible links between material composition/structure and optical performance, with a special focus on the role of optical materials in solving global challenges (clean energy, quantum information, biomedicine, and sustainable photonics). We particularly welcome work on emerging areas such as dynamic/reconfigurable photonic materials, sustainable and biodegradable optical materials, and materials designed for extreme operating conditions.

Scope

General subject areas include, but are not limited to, the following:

- Optical crystals, ceramics, glasses, polymers, hybrid/organic materials, and low-dimensional materials (including graphene, TMDCs, ZnO, etc.).
- Optoelectronic materials, fiber waveguides, optical coatings/films, metasurfaces, and metamaterials, with an emphasis on integration and interfacial optical effects.
- Bio-inspired and bio-integrated optical materials (where the material itself is the primary novelty) as well as chiral and topological photonic materials.
- Materials for quantum optics, spintronics, ultrafast technologies, and light-harvesting systems (including photocatalysis and energy-efficient sustainable photonics).
- AI-driven design and discovery of optical materials, combined with advanced spectroscopic, microscopic, and computational methods (experimental validation is encouraged).
- Dynamic, reconfigurable, and extreme-condition optical materials (e.g., phase-change materials, stimuli-responsive photonic structures, materials for high radiation, cryogenic temperatures, and deep UV).

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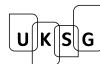
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