Special Issue

Development and Characterization of Linear and Nonlinear Optical Crystals

Message from the Guest Editors

This Special Issue aims to explore the latest developments in the synthesis, characterization, and practical implementation of these materials. While we highlight cutting-edge research on fiber-optic sensors—ranging from their use in environmental monitoring to healthcare and industrial applications—we also welcome contributions that address all areas of optical crystal research. Topics may include, but are not limited to, the following:

- Novel fabrication techniques for optical crystals;
- Linear and nonlinear optical properties and their applications;
- Advances in fiber-optic sensing technologies;
- Characterization methods for linear and nonlinear crystals;
- New developments in integrated optics and photonic devices.

We invite researchers, academicians, and industry professionals to submit original research articles, reviews, and technical notes to share their latest findings in this exciting field. Your contributions will provide valuable insights to advance the application of optical crystals in sensor technology and beyond.

Guest Editors

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Dr. Bohong Zhang

Dr. Jie Huang

Deadline for manuscript submissions

20 November 2025

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Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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