Special Issue

Optical, Thermal, Elastic, and Spectral Properties of Crystals

Message from the Guest Editors

Crystals play a key role in scientific research because their predictable, ordered structures provide detailed information at the atomic level, enabling a comprehensive understanding of these materials and their applications.

We aim to present studies demonstrating current trends and perspectives in the study of crystalline materials, structures, and devices, as well as the development of methods for their characterization. This research has relevance to various fields, ranging from fundamental research to microelectronics, optoelectronics, solar cells, and quantum computers.

Topics of interest encompass scientific and engineering applications in fields such as materials science, property studies, and the design of new materials with desirable properties for various industries. They include the following: Nanotechnology (crystal engineering, which is essential for developing new nanomaterials and improving existing ones); electronics and optics (components for lasers, nonlinear optics, and other optical and electronic devices); crystal detectors (various types of weak-signal detection); and the use of crystalline materials in medicine and pharmacy.

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Message from the Editorial Board

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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