

Special Issue

Growth and Properties of Crystal Materials

Message from the Guest Editor

Crystals are the foundation of many advanced technologies today. Nonlinear optical crystals have been widely used in the field of high-power all-solid-state lasers. Crystals of all kinds are required for scientific studies and new applications. From piezoelectric, optical, and laser applications to today's overwhelming photovoltaic market and widespread use of electronic devices in information technology, communication, system control, and power conversion, the research on growth and properties of crystal materials has contributed to the development of modern technology, and greatly promoted the progress of science and technology. Therefore, the growth of crystals with higher perfection and lower cost is a prerequisite for its application in any new functionalities, and high-efficiency devices based on high-quality crystals are the driving force for word development. In this Special Issue, theoretical and experimental research on physical, chemical, and biological phenomena and processes related to the growth, epitaxy, characterization, and application of crystal materials are highlighted and discussed.

Guest Editor

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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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