Special Issue

Investigation of Optoelectronic Functional Crystals: Crystal Growth, Properties and Applications

Message from the Guest Editors

Optoelectronic functional crystals have played a key role in advancing electronics and photonics. Their unique properties have enabled wide-ranging breakthroughs in the fields of optical modulation and waveguide, holographic storage and display, infrared and X-ray imaging, wavelength conversion and coherent optical amplification, optofluidic manipulation and interfacial science, photocatalytic degradation and photothermal conversion, etc. The present Special Issue aims to address both scientific and engineering developments related to the preparation, physico-chemical properties, and current and prospective applications of optoelectronic functional crystals. We strongly encourage the submission of novel interdisciplinary research, in which various techniques of materials engineering or artificial intelligence (AI) are involved.

Guest Editors

Prof. Dr. Wenbo Yan

School of Materials Science and Engineering, Hebei University of Technology, Tianjin 300401, China

Dr. Lihong Shi

Department of Physics, Tianjin Chengjian University, Tianjin 300384, China

Deadline for manuscript submissions

closed (10 June 2023)

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/119812

Materials
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
materials@mdpi.com

mdpi.com/journal/materials

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/journal/materials

MDPI

About the Journal

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.

Editor-in-Chief

Prof. Dr. Maryam Tabrizian
1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada
2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Ei Compendex, CaPlus / SciFinder, Inspec, Astrophysics Data System, and other databases.

Journal Rank:

JCR - Q2 (Metallurgy and Metallurgical Engineering) / CiteScore - Q1 (Condensed Matter Physics)