



an Open Access Journal by MDPI

Perovskite Nanomaterials for Functional Devices and Sensors

Guest Editor:

Dr. Bo Jiao

Key Laboratory for Physical
Electronics and Devices of the
Ministry of Education, Xi'an
Jiaotong University, Xi'an 710049,
China

Deadline for manuscript
submissions:

closed (20 February 2023)

Message from the Guest Editor

Metal halide perovskite nanomaterials recently emerged as star materials in many fields, including solar cells, light-emitting diodes, and detectors. The purpose of this Special Issue is to highlight recent advances in perovskite nanomaterials for functional devices. Examples include the synthesis and characterization of novel perovskite nanocrystals, perovskite quantum dot light-emitting diodes, perovskite quantum dot solar cells, perovskite-nanomaterials-based detectors, perovskite nanocrystal scintillators, etc.

This Special Issue covers all aspects of perovskite nanomaterials, including theory, synthetic efforts, novel processing methods, and the developments in device performance. In addition to lead halide-based nanomaterials, lead-free perovskites nanomaterials will also be included.



mdpi.com/si/120138



an Open Access Journal by MDPI

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

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.

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

Contact Us

Materials Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/materials
materials@mdpi.com
[X@Materials_Mdpi](https://twitter.com/Materials_Mdpi)