



Ultra-Wide Bandgap Semiconductor Materials and Devices

Guest Editor:

Dr. Xiaojuan Sun

Changchun Institute of Optics,
Fine Mechanics and Physics, CAS

Deadline for manuscript
submissions:

20 June 2024

Message from the Guest Editor

Dear Colleagues,

Ultra-wide Bandgap Semiconductors (UWBG) includes the high-Al-content AlGaN, boron nitrides, diamond, Ga₂O₃, NaYO₂, etc. The applications of UWBG cover ultraviolet optoelectronics, power and RF electronics, detectors, and so on. The study of UWBG has become a new research hotspot because of the wide applications. However, there are many aspects that need to be further investigated. The objective of this Special Issue is to encourage researchers to exchange and share their strategies and achievements in UWBG materials and devices. The scope of the Special Issue includes, but is not limited to, advances in UWBG materials, especially stress and defects control, doping, and device design, mechanism, and fabrication.





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

Contact Us

Materials Editorial Office
MDPI, St. Alban-Anlage 66
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)