

## Special Issue

# Thin Films: Growth, Characterization, and Optoelectronic Device Applications

### Message from the Guest Editor

Here we solicit manuscripts on growth, characterization, and resultant devices based on inorganic, organic, and hybrid metallic, insulating, and semiconducting thin films, with a focus on characterizing properties in device and device-like structures and understanding device performance. Due to the range and types of optical and electronic device applications, including large area depositions in display and photovoltaic technologies, pixel scale geometries in sensors and integrated circuits, and functional optical and hard coatings, we encourage submission of manuscripts involving experimental and theoretical investigations of thin films exhibiting epitaxial, polycrystalline, or amorphous characteristics, including studies of surfaces, interfaces including subsurface modification, nanostructures, and bulk materials overdeposited with thin films or with surface modifications. Of particular interest are in situ studies of material growth evolution and device processing; characterization of structural, optical, and electrical properties of thin films in devices; novel deposition and material processing; and optoelectronic devices, including thin film photovoltaics and sensors.

### Guest Editor

Prof. Dr. Nikolas J. Podraza

Department of Physics and Astronomy & Wright Center for Photovoltaics Innovation and Commercialization, University of Toledo, Toledo, OH, USA

### Deadline for manuscript submissions

closed (20 March 2022)



## Materials

an Open Access Journal  
by MDPI

Impact Factor 3.2  
CiteScore 6.4  
Indexed in PubMed



[mdpi.com/si/29649](https://mdpi.com/si/29649)

*Materials*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[materials@mdpi.com](mailto:materials@mdpi.com)

[mdpi.com/journal/  
materials](https://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](https://mdpi.com/journal/materials)



## 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)