

## Special Issue

# Advanced Nanomaterials and Their Sensing Applications

### Message from the Guest Editor

The last decades witnessed tremendous progress in nanoscience and nanotechnology. Due to the development of novel methods of synthesis and functionalization of various nanoparticles and hybrid materials based on them, a great number of new materials became available for sensing applications. Exigencies regarding the quality of various materials resulted in a need for highly accurate analytical methods with low detection limits, in a variety of fields. This special issue intends to cover some of the recent advancements in the field of sensors, with an emphasis on optical sensing with newly developed nanomaterials such as, for example, graphene and other carbon-based materials. Advanced sensing methods, for example, by using microfluidic-integrated nanomaterials are also part of the topic of this issue. Also, as a benefit for the authors, readers are more likely to discover work they might not otherwise encounter. Special Issue research articles seem to be more frequently cited than regular ones. I think it is mostly because articles published in Special Issues are related to the latest research trend.

### Guest Editor

Dr. Simona Badilescu

Optical-Bio Microsystems Laboratory, Department of Mechanical and Industrial Engineering, Concordia University, Montreal, QC H4B 1R6, Canada

### Deadline for manuscript submissions

closed (20 September 2022)



## Materials

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.1  
CiteScore 5.8  
Indexed in PubMed



[mdpi.com/si/103730](https://mdpi.com/si/103730)

#### *Materials*

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 3.1  
CiteScore 5.8  
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 - Q1 (Metallurgy and Metallurgical Engineering) /  
CiteScore - Q2 (Condensed Matter Physics)