



*materials*



an Open Access Journal by MDPI

## Cellulose Electronics and Photonics: A New Challenge for Materials a New Opportunity for Devices

Guest Editors:

**Prof. Dr. Luis Pereira**

AlmaScience CoLab, Campus da  
Caparica, 2829-516 Caparica,  
Portugal

**Prof. Dr. Aaron Mazzeo**

Mechanical and Aerospace  
Engineering, Rutgers University,  
Piscataway, NJ 08854, USA

Deadline for manuscript  
submissions:

**closed (1 March 2022)**

### Message from the Guest Editors

Dear Colleagues,

This Special Issue aims to gather the research working covers recent developments in topics that include: micro/nano fibers functionalization and assembling, new cellulose-based substrates, nanocomposites with other functional materials, multi-functional devices and actuators, bio-mimetic/nature-inspired structures, and cost-effective manufacturing technologies on large area. Hot topics to be covered in this Special Issue: Cellulose and other related biomaterials such as lignin; Nanocellulose-based functional structures and self/hierarchical assembly; Mechanical/thermal/barrier properties and multi-scale modeling; Micro/nanofluidics and biosensors on cellulose and related biomaterials; Electronic devices such as flexible electronics; Sensors and actuators; Soft robotics; Wearable and patch-based devices; Plasmonics and nanophotonics; Energy harverting applications such as solar cells, batteries, supercapacitors and piezo/triboelectrics; Other emerging applications such as smart materials, membranes and others.

For more details, please click the following link:

[https://www.mdpi.com/journal/materials/special\\_issues/cellulos](https://www.mdpi.com/journal/materials/special_issues/cellulos)



[mdpi.com/si/82756](https://www.mdpi.com/si/82756)

# Special Issue



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](http://www.mdpi.com)

[mdpi.com/journal/materials](http://mdpi.com/journal/materials)  
[materials@mdpi.com](mailto:materials@mdpi.com)  
[X@Materials\\_Mdpi](https://twitter.com/Materials_Mdpi)