

## Special Issue

# Advances in Textile Materials for Biomedical Applications

### Message from the Guest Editors

Textiles are essential in biomedical applications due to their versatility, biocompatibility, and customizable properties. Some key textile materials used in biomedical applications include natural, synthetic, and smart textiles. These materials are used in wound care, implants, tissue engineering, drug delivery, and wearable medical devices. Textile materials used in biomedical applications must provide biocompatibility, mechanical strength, and functionality. While natural textile materials offer biodegradability, synthetic and smart textiles provide advanced performance for implants, wound care, and diagnostics. Future advancements in nanotechnology, 3D printing, and bioengineering will further expand their biomedical applications. This Special Issue of *Materials* titled “Advances in Textile Materials for Biomedical Applications”, considers papers describing the development of new textile materials for biomedical applications. Theoretical contributions can be included, but all papers considered must include an experimental component. Any paper with a demonstrated biomedical application will be considered.

---

### Guest Editors

Dr. Patrick Chi-Leung Hui

Department of Computing, The Hong Kong Polytechnic University,  
Hung Hom, Hong Kong

Prof. Dr. Chi-Wai Kan

School of Fashion and Textiles, The Hong Kong Polytechnic University,  
Hung Hom, Kowloon, Hong Kong

---

### Deadline for manuscript submissions

20 July 2026



## Materials

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.2  
CiteScore 6.4  
Indexed in PubMed



[mdpi.com/si/239280](https://mdpi.com/si/239280)

*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 Editorial Board

*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.

---

### Editors-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

Prof. Dr. Yuguang Ma

State Key Laboratory of Luminescent Materials and Devices, South China University of Technology, Guangzhou 510640, China

---

### 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)