

## Special Issue

# Materials for Bone Tissue Engineering: Preparation Methods, Properties Optimisation, and Applications

### Message from the Guest Editor

This Special Issue titled “Materials for Bone Tissue Engineering: Preparation Methods, Properties Optimisation, and Applications” aims to present the latest research and development progress in the field of biomaterials designed specifically for bone tissue engineering, with a special focus on bone cements. Bone cements play a key role in orthopedic surgery and are essential for implant fixation and bone reconstruction. This Special Issue will therefore cover a wide range of aspects within this topic, including the development of innovative preparation techniques and methods for evaluating the properties and durability of bone cements. We hope that this Special Issue will be a valuable resource for researchers, engineers, and clinicians interested in the latest developments and future directions of biomaterials, particularly bone cements, in bone tissue engineering.

### Guest Editor

Dr. Jakub Szabelski

Department of Materials Science and Engineering, Lublin University of Technology, 20-618 Lublin, Poland

### Deadline for manuscript submissions

20 December 2025



## Materials

an Open Access Journal  
by MDPI

Impact Factor 3.2  
CiteScore 6.4  
Indexed in PubMed



[mdpi.com/si/242343](https://mdpi.com/si/242343)

*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)