

## Special Issue

# Advances in Biomaterials for Dental Applications

### Message from the Guest Editor

Different types of dental biomaterials have been introduced into the market to meet the expectations of both dentists and patients. The aim of basic and developmental research is to continuously improve their physical and mechanical properties, tribological characteristics, biocompatibility, antimicrobial properties, and toxicity. Many studies explore the development of new materials, while others focus on the investigation of commercially available products in the context of their role in the oral environment. Another area of research concerns the use of modern technologies used for processing. Considering that dental biomaterial products should be compatible with biological systems, our knowledge of biomechanical engineering also plays an extremely important role in their design. Interdisciplinary research that combines the principles of materials science and mechanical engineering with medical sciences must be carried out to improve our understanding. For this purpose, I invite you to submit a manuscript for this Special Issue. Original research articles and reviews related to any of the topics mentioned above are also welcome.

### Guest Editor

Prof. Dr. Krzysztof Pałka

Department of Materials Engineering, Lublin University of Technology,  
Nadbystrzycka 36, 20-618 Lublin, Poland

### Deadline for manuscript submissions

closed (30 June 2024)



## Materials

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.2  
CiteScore 6.4  
Indexed in PubMed



[mdpi.com/si/165838](https://mdpi.com/si/165838)

*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)