

Ceramic and Metallic Biomaterials. Application in Medical Sciences

Guest Editor:

Dr. Oana Dragos-Pinzaru

National Institute of Research
and Development for Technical
Physics, 700050 Iasi, Romania

Deadline for manuscript
submissions:

30 November 2024

Message from the Guest Editor

Dear Colleagues,

Nowadays, the development of new materials that can be used to treat, repair, diagnose, or restore a function of the human body represents one of the key research topics for the worldwide scientists and medical industries. Another important class of compounds that has attracted the attention of the scientific community is represented by ceramic biomaterials, which can be used for the replacement of various types of tissues. The outperformance of a biomaterial is determined by its crystalline structure, microstructure, biocompatibility, corrosion resistance, or mechanical properties. In this context, the development of new biomaterials with improved physical and mechanical properties and a low production cost, high availability, and good esthetics is imperative.

List of the potential topics:

Metallic biomaterials for manipulation of living cells;
New approaches in cancer detection and treatment;
Advances in dental restorations materials;
Tissue engineering.



mdpi.com/si/111793

Special Issue

Editors-in-Chief

Prof. Dr. Wei Pan

State Key Laboratory of New
Ceramics and Fine Processing,
School of Materials Science &
Engineering, Tsinghua University,
Beijing 100084, China

Dr. Emerson Coy

NanoBioMedical Centre, Adam
Mickiewicz University in Poznań,
ul. Wszechnicy Piastowskiej 3, 61-
614 Poznań, Poland

Message from the Editorial Board

Now more than ever, research is called for to produce technologies and improve knowledge to solve the major challenges faced by our society. The development of new materials and devices for (without the ambition to be exhaustive) energy, health and food technology, together with the need for establishing processes that reduce the impact on critical resources and the environment, is indeed at the center of most contemporary research. Surface science and engineering play a key role in this regard. Refining surfaces and their modifications provides new materials, architectures and processes with a huge potential to aid most societal challenges. *Coatings* is a well-established, peer-reviewed, online journal that focuses on the dissemination of publications in the field of surface science and engineering. *Coatings* publishes original research articles that report cutting-edge results and review papers on the hottest topics.

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), Inspec, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q2 (*Materials Science, Coatings & Films*) / CiteScore - Q2 (*Surfaces and Interfaces*)

Contact Us

Coatings Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/coatings
coatings@mdpi.com
[X@Coatings_MDPI](https://twitter.com/Coatings_MDPI)