



Ceramic Materials for Biomedical Applications

Guest Editor:

Dr. Monika Furko

Centre for Energy Research, 1121
Budapest, Hungary

Deadline for manuscript
submissions:

closed (31 August 2022)

Message from the Guest Editor

Dear Colleagues,

It is a matter of great pleasure to invite you to contribute to the present Special Issue on “Ceramic Materials for Biomedical Applications”.

Ceramic materials can be used in many ways with different purposes. The ceramics, used mainly in biomedical fields, are called bioceramics. Generally, bioceramics are closely related to either the composition of hard tissues in human bodies or are extremely durable metal oxides. Bioceramics are used in various types of medical procedures, and as such, they have to meet strict requirements with regard to their physical and chemical properties and biocompatibility.

Ceramics have been successfully used for more than twenty years as orthopaedic prostheses and are characterized by low friction coefficient and low wear rate, compared to metallic materials. However, they have much higher brittleness than that of metals, and this restricts the use of ceramics in load bearing implants.





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 asked to deliver knowledge and technologies 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 in the spotlight of most contemporary research. Surface science and engineering play a key role in this regard, with an incredible potential in delivering new and deep scientific understanding and technical solutions essential to solve most of the major societal challenges.

Coatings is a well-established, peerreviewed, online journal dedicated to the vibrant field of surface science and engineering. Coatings publishes original research articles that report cutting-edge results and review papers that make the point on the hottest research 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 (*Physics, Applied*) / CiteScore - Q2 (*Surfaces, Coatings and Films*)

Contact Us

Coatings Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

mdpi.com/journal/coatings
coatings@mdpi.com
X@Coatings_MDPI