

Special Issue

Ceramic Materials for Biomedical Applications

Message from the Guest Editor

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.

Guest Editor

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Deadline for manuscript submissions

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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.

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