Special Issue

Metals as Biomaterials

Message from the Guest Editor

The evolution of the usage of Metals as Biomaterials can be appreciated as being extraordinary in the last century and exponential in the last decade. This dynamic is attributed mainly to the evolution of medicine through innovative techniques and approaches as well as materials science through the development of new processing and modeling technologies. In this Special Issue of Metals, we will gather the top research results from researchers in various fields related to obtaining, processing, and utilizing biomaterials containing or coated by metals. The focus is on the opportunities created by thermal conductivity, mechanical properties, and the ability to restore the shape and functions of the human body. In essence, the topic of this Special Issue is only limited by the novelty of the information, with regards to ferrous and non-ferrous alloys, including bulk, composite, layered, coated, crystalline, amorphous, or various combinations. Topics of interest comprise corrosion resistant alloys, biodegradable alloys, modern processing technologies, in vitro and in vivo biological responses, and high-resolution characterization techniques.

Guest Editor

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About the Journal

Message from the Editorial Board

Metallic materials play a vital role in the economic life of modern societies; contributions are sought on fresh developments that enhance our understanding of the fundamental aspects related to the relationships between processing, properties and microstructure – disciplines in the metallurgical field ranging from processing, mechanical behavior, phase transitions and microstructural evolution, nanostructures, as well as unique metallic properties – inspire general and scholarly interest among the scientific community.

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