Special Issue

Recent Advances in Metallic Biomaterials

Message from the Guest Editors

The increase in life expectancy in the world population increasingly requires structural alloys that allow bone replacement or repair and likewise improve dental implantology. For this reason, the study and development of new and better alloys is essential, as well as the corresponding surface modification that allows better osseointegration. At the same time, studies of surface functionalization that allow better bioactivity will minimize the costs associated with possible revisions of prostheses and implants. In addition, the additive manufacturing of personalized prostheses, especially in maxillofacial surgery, can allow an improvement in the well-being of the patient, opening up new possibilities of therapeutic application. The improvement in the integral behaviour of biodegradable alloys or compounds between alloys will allow combining their properties in the medium and long term, improving the duration and properties of the devices.

Guest Editors

Prof. Dr. Vicente Amigó-Borrás

Department of Mechanical Engineering and Materials, Universitat Politècnica de València, Valencia, Spain

Dr. Mariana Rossi

Department of Materials Engineering, Universidade Federal de São Carlos, São Carlos, Brazil

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
metals@mdpi.com

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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.

Editors-in-Chief

Prof. Dr. Hugo F. Lopez
Department of Materials Science and Engineering, College of Engineering & Applied Science, University of Wisconsin-Milwaukee, 3200 N. Cramer Street, Milwaukee, WI 53211, USA

Prof. Dr. Yong Zhang
Beijing Advanced Innovation Center of Materials Genome Engineering, State Key Laboratory for Advanced Metals and Materials, University of Science and Technology Beijing, 30 Xueyuan Road, Beijing 100083, China

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