



Editorial Board Members' Collection Series: Advanced Metallic Biomaterials

Guest Editors:

Dr. Silvia Spriano

Department of Applied Science and Technology, Politecnico di Torino, 10126 Torino, Italy

Prof. Dr. Takayoshi Nakano

Division of Materials and Manufacturing Science, Graduate School of Engineering, The University of Osaka, Suita 565-0871, Osaka, Japan

Deadline for manuscript submissions:

closed (15 November 2024)

Message from the Guest Editors

Bio-based materials often exhibit lower toxicity than traditional metals, alongside other novel characteristics, such as biodegradability. This is a new and interesting frontier for metal-based materials with the fast development of new alloys. In this Special Issue, we welcome articles that focus on:

Metal-based materials with the addition of biobased materials (single compounds or extracts with a biological origin such as oils, chitosan, gelatin, algae, by-products, and/or waste from the food industry). Functionalized or coated metals and metal-matrix composites are included.

New compositions or processing of biodegradable metals (such as magnesium, zinc, and iron alloys).

Coatings or surface modifications for modulation of the corrosion rate and degradation of biodegradable metals.

Methods for the characterization of biodegradable metals.

LCA and LCC evaluation of the production and processing of bio-based and biodegradable metals





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Editor-in-Chief

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

Message from the Editor-in-Chief

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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Contact Us

Metals Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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