

Special Issue

Magnesium Alloys as Potential Biodegradable Material

Message from the Guest Editors

Biodegradable Mg and its alloys have been on the receiving end of extensive attention and explorations of clinical applications as implants in the last 20 years. Due to their biodegradation, biofunction, and mechanical properties, Mg-based metallic implants have several advantages over other currently used metals in the clinical field with concerns about the effects of stress shielding and the requirement of a second surgery for removal. In recent years, various works on Mg-based biomaterials have been published, focusing on topics including the structural design of Mg-based implants, processing technology of Mg devices, bio-functional surface treatment technology, and service performance of Mg implants in animal trials and clinical treatment. To improve the development of Mg-based implants from bench to bedside, the Editorial Board of *Metals* has decided to launch this Special Issue to introduce the latest progress in this field. Papers on popular research topics for Mg alloys in biomedical applications are welcome in this Special Issue.

Guest Editors

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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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