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Absorbable Metals for Biomedical Applications

Guest Editors:

Dr. Hendra Hermawan

Department of Mining,
Metallurgical and Materials
Engineering, Laval University,
Quebec City, QC G1V 0A6, Canada

Dr. Mehdi Razavi

Biionix™ (Bionic Materials,
Implants & Interfaces) Cluster,
Department of Internal Medicine,
College of Medicine, University of
Central Florida, Orlando, FL
32827, USA

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Message from the Guest Editors

Dear Colleagues,

Absorbable metals, as the ASTM and ISO standards named them, and known also as biodegradable metals, are metals and alloys that are intended for use in biomedical applications, mainly as materials for temporary implants, such as endovascular stents, bone plates and screws, and porous scaffolds. They are expected to be completely degraded and absorbed in the body after providing a needed function, thus eliminating the harmful potential effects of permanent implants. The introduction of these metals has shifted the established paradigm of metal implants from preventing corrosion to taking advantage of it. The families of absorbable metals can be grouped into iron, magnesium, zinc, and their alloys.

This Special Issue aims to present the latest works in the research and development of absorbable metals, to solicit the most important findings, to highlight the remaining challenges, and to provide the perspectives on the future direction.





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Editors-in-Chief

Prof. Dr. Maryam Tabrizian

1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada

2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

Prof. Dr. Yuguang Ma

State Key Laboratory of Luminescent Materials and Devices, South China University of Technology, Guangzhou 510640, China

Message from the Editorial Board

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Contact Us

Materials Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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