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Absorbable Metals for Biomedical Applications

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Deadline for manuscript submissions:
closed (31 May 2021)

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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Message from the Editor-in-Chief

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