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Advances in Metallic Biomaterials for Multifunctional Applications: Key Technology for Better Healthcare

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Message from the Guest Editor

Metallic bio-implants have been gaining importance in the healthcare sector and the biomedical business has undergone a revolution as a result of recent advancements in computer-aided design and manufacturing technologies, as well as the discovery of novel materials. These methodical, technological, and systematic advancements in manufacturing processes have also made it possible to create unique biomedical products and equipment with increased functionality and just-in-time patient-specific medical solutions. In order to create new, improved, biocompatible compositions with greater capabilities that are suitable as candidate materials for biomedical devices, more thorough study is clearly required. This Special Issue's major goal is to discuss the fabrication of biomedical devices from a materials and manufacturing perspective. The first chapter examines the criteria that must be met in order for these biomedical devices to be approved by the appropriate regulatory agencies, as well as their classification and approval processes.

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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.

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