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Advances in Stability of Metallic Implants

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Deadline for manuscript submissions:
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Message from the Guest Editors

Metallic implants play an important role in promoting human health and disease treatment. The stability of metallic implants plays an important role in the clinical performance of medical implants, and have attracted more and more attention from researchers in the last few decades. Significant advances in this field have a close relationship with medicine, biomaterials, numerical simulation, biomaterials preparation and characterization, surface biofunctionalization of the metallic implants, etc.

Topics addressed may include, but are not limited to: Computational modelling and numerical simulation of metallic implants; Biofunctionalization of biomaterials to enhance the stability of metallic implants; Metallic design and characterization for medical devices; Surface modification of biomaterials and metallic implants; The interactions between metallic implants and tissue; New fabrication techniques and characterization of the metallic implants; Investigation methods/modeling for metallic implants development; Design, preparation, and characterization of new metallic implants.

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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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