Special Issue

Degradable/Resorbable Metallic Alloys for Biomedical Applications

Message from the Guest Editor

Biodegradable (bioresorbable) metallic materials such as Zn, Mg, Fe-based alloys provide new opportunities for tissue regeneration. These metallic alloys can temporally provide the mechanical strength as scaffolds, and due to their biocompatibility and bioresorbable characteristics they elicit minimal or no adverse reactions. As the alloys interact with the body, understanding the interface behavior between metal degradation and the surrounding tissue regeneration is critical. The devices can be preclinically tested and characterized in terms of long-term degradation, byproduct (corrosion product) formation, and biocompatibility. The devices can be generaly categorized as cardiovascular, orthopaedic, craniofacial, and bio-electronics. In addition to research-based topics with pre-clinical studies, clinical evidence of success is also important to share with the research community.

Guest Editor

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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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