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Advanced Alloy Degradation and Implants

Guest Editor:

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Deadline for manuscript submissions:

closed (29 April 2024)

Message from the Guest Editor

Dear Colleagues,

Metals and their alloys are one of the oldest biomedical materials in human beings. In recent years, the R&D and design of metal implants and devices, the further exploration of their powerful functions and the in-depth exploration of their interaction with the body microenvironment have made great progress. In particular, the design of biodegradable alloys, the elaboration of their degradation mechanism in different environments, the research on degradation behavior and degradation products have attracted the attention of scholars

Topics addressed in this Special Issue may include, but are not limited to:

Design, fabrication, and characterization of new alloy implants and devices;

Coatings of metallic implants or biomaterials;

Biomedical alloy degradation;

Computational modeling and numerical simulation of alloy implants and their surface;

Composite materials composed of metals and other materials;

The interactions between alloy implants and cells.







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Message from the Editorial Board

Now more than ever, research is called for to produce technologies and improve knowledge to solve the major challenges faced by our society. The development of new materials and devices for (without the ambition to be exhaustive) energy, health and food technology, together with the need for establishing processes that reduce the impact on critical resources and the environment, is indeed at the center of most contemporary research. Surface science and engineering play a key role in this regard. Refining surfaces and their modifications provides new materials, architectures and processes with a huge potential to aid most societal challenges. Coatings is a well-established, peer-reviewed, online journal that focuses on the dissemination of publications in the field of surface science and engineering. Coatings publishes original research articles that report cutting-edge results and review papers on the hottest topics.

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