

Special Issue

Surface Modification Technology of Biomedical Metals

Message from the Guest Editors

The application of metal in biomedicine is becoming more and more common, but, due to its various limitations, it is often necessary to modify its surface to obtain better performance and better clinical application. There are many technologies for surface modification of medical metals, such as laser surface modification, chemical treatment, plasma surface modification, etc., and these technologies are still being developed to meet market demand. This Special Issue will collect important contributions related to the announced topics, focusing on biomedical metals and surface modification technologies of biomedical metals. In particular, topics of interest include, but are not limited to the following:

- Design of biomedical alloy
- Preparation method of biomedical alloy
- Biomedical alloy modification technology and method
- Surface biological activity modification of biomedical alloys
- Modification of corrosion resistance of biomedical alloys
- Modification of wear resistance of biomedical alloys
- Preparation of biomedical alloy surface coating
- Evaluation of nanoscale microstructure and performance of biomedical alloys

Guest Editors

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About the Journal

Message from the Editorial Board

Now more than ever, research is asked to deliver knowledge and technologies 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 in the spotlight of most contemporary research. Surface science and engineering play a key role in this regard, with an incredible potential in delivering new and deep scientific understanding and technical solutions essential to solve most of the major societal challenges.

Coatings is a well-established, peerreviewed, online journal dedicated to the vibrant field of surface science and engineering. Coatings publishes original research articles that report cutting-edge results and review papers that make the point on the hottest research topics.

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