

Special Issue

Surface Modification of Biomaterials: Technologies, Advantages and Applications

Message from the Guest Editors

Recent decades, changes in population habits and a longer life expectancy have led to an exponential increase in the number of repair procedures with surgical implants, but the implanted biomaterial's long-term durability is not ensured. Since most such causes of failure are related to the surface features of the implanted biomaterials, this one has an essential role in defining biomaterial performance, since the response of the human body to the material implantation is a function of the reactions that take place at the tissue–implant interface.

This Special Issue welcomes innovative works on surface modification of biomaterials and medical devices which are able to extend their lifetime, focusing particular attention on the technologies for their surface modification, and aims to highlight new approaches, their advantages, and their applications in the biomedical field. **Keywords:**

- Biomaterials
- Surface modification
- Surface characterization
- Functional coating
- Drug delivery

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Message from the Editor-in-Chief

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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