

Surface Functionalization Modification of Biomedical Materials

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Message from the Guest Editors

Biomedical materials are used in healthcare applications such as tissue repair, reconstruction, and localized drug delivery. It is required that they possess good biological compatibility, low toxicity, and degradability. Therefore, surface modification of biomedical materials is of great importance.

The physical and chemical properties of biomaterials can regulate biological responses. Surface modification can alter the composition, microstructure, and properties of biomaterials, such as cell compatibility, bone induction, and bacterial resistance. Therefore, surface modification is applicable to biomaterials at both macro and nano levels.

In this Special Issue, original research articles and reviews are welcome. Research areas may include (but are not limited to) the following:

- Surface functionalization modification of tissue engineering materials;
- Composite biomedical materials;
- Surface biological functionalization of inorganic materials;
- Functionalization of biomaterials;
- Surface modification of metallic biomaterials;
- Surface modification of polymeric biomaterials;
- Surface modification techniques;
- Bioactive coatings.





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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.

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