

Special Issue

Surface Modification of Biomaterials and Biomedical Devices

Message from the Guest Editors

Biomaterials and biomedical devices made with them are engineered to meet different medical needs, such as treatment, augmentation, repair or replacement of damaged tissue, etc. Although the bulk properties of a material are crucial for certain applications, the physicochemical properties of the material surface are also extremely important for biomedical applications since the surface is in the direct contact with biological systems. Thus, the surface modification of biomaterials is often necessary to obtain adequate physicochemical and structural properties which further improve their biocompatibility, by a promoting favorable cellular response at the biomaterial/tissue interface. Potential topics include, but are not limited to, the following areas:

- Surface modification of metallic biomaterials;
- Surface modification of ceramic biomaterials;
- Surface modification of polymeric biomaterials;
- Surface modification techniques;
- Bioactive coatings;
- Biomimetic coatings.

We look forward to receiving your contributions.

Guest Editors

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Deadline for manuscript submissions

closed (31 August 2023)



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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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