



Surface Properties of Implants and Biomedical Devices

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Message from the Guest Editors

Dear Colleagues,

The current development of technologies requires a constant analysis of emerging materials. In this sense, the surfaces of implants and biomedical devices are constantly being improved by being subjected to physical, biochemical, and/or chemical treatments. The use of additive manufacturing has increased considerably in the last few years, as has the use of innovative devices.

This Special Issue is open to all medical specializations that can contribute information about advanced surface analyses for implants and biomedical devices, the characterization of ceramic devices, new metal alloys to be used as implant materials, innovations in microscopy software, the interpretation of soft tissue interactions with composites, bioceramics, polymers, and metal alloys.

The scope of this Special Issue will serve as a forum for research on the following concepts:

- Surface treatments and tissue interactions.
- Surface functionalization of biomedical devices.
- Surfaces and materials for implants.
- Recent insights into biomedical devices.
- Surface characterization of dental materials.





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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.

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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