

Advances in Surface Engineering and Biocompatible Coatings for Biomedical Applications

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Message from the Guest Editors

Dear Colleagues,

The surface properties of biomaterials play a significant role in biomaterial performance. Surface engineering via bulk materials' surface property modification and applying biocompatible coatings to bulk materials has demonstrated substantial synergistic improvements in the performance and service life of biomaterials via the alteration of their surface properties.

The present Special Issue aims to highlight the recent advances in surface engineering and biocompatible coatings for biomedical applications. Research areas may include the following:

- Mechanical and physical surface treatment, including grit blasting, polishing, shot peening, surface mechanical attrition treatment, laser peening, sputtering, laser/electron beam patterning, and plasma electrolyte oxidation.
- Chemical and electrochemical surface treatment, including etching, anodizing, electrophoretic deposition, and chemical vapor deposition.
- Biocompatible coatings, including hydroxyapatite-based, bioactive glass-based, and polymer-based coatings.

We look forward to receiving your contributions.



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Message from the Editorial Board

Now more than ever, research is called for to produce technologies and improve knowledge 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 at the center of most contemporary research. Surface science and engineering play a key role in this regard. Refining surfaces and their modifications provides new materials, architectures and processes with a huge potential to aid most societal challenges. *Coatings* is a well-established, peer-reviewed, online journal that focuses on the dissemination of publications in the field of surface science and engineering. *Coatings* publishes original research articles that report cutting-edge results and review papers on the hottest topics.

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