



Specialized Coatings on Biomedical Materials

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

We are seeking contributions to this Special Issue. Coatings play a prominent role in biomedical materials, enabling their use in challenging *in vivo* environments where these materials would not otherwise survive. Such coatings are used on implants, orthodontic wires, restorative materials, and instruments for dentistry, as well as on orthopedic implants and on other materials for a wide range of medical applications. Traditional materials science research on the composition—structure—property aspects of these coatings must be supplemented by an investigation of their performance under the harsh conditions of clinical environments, as well as by examination of retrieved materials after *in vivo* service.

The goals of this Special Issue are to examine the current status of special coatings on all types (metallic, ceramic, and polymeric) of biomedical materials, to provide information about advances in recent years, and to suggest directions where future research in this exciting area is needed.





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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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