



## Biomaterials Special Coatings and Host Response

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### Message from the Guest Editor

Biomaterials, including orthopedic prostheses, are dental implants intensively investigated to increase biocompatibility and provide sufficient host tissue response. Bioactive coating has been used successfully to improve biocompatibility and to provide additional specific properties, e.g., antibacterial and anticorrosive. Polymers, ceramic materials, nanoparticles, and nanoconjugates are exploited to add specific host responses for medical devices. This Special Issue focuses on the development of special bioinspired coatings for biomedical application and investigation of host response to modified materials. Biointerfaces are also under the focus of this Special Issue. In particular, the topic of interest includes but is not limited to:

- Bioinspired coatings for medical devices;
- Coatings with special functions (antibacterials, anticorrosive, antifouling, etc.);
- Coating–tissue interactions;
- Host tissue response to special 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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