

Surface Modification of Medical Implants

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Message from the Guest Editor

The main goal of this Special Issue is to present the latest developments in the field of the surface modification of medical implants for enhancing the specific functionality in human aggressive media.

The topics of interest include, but are not limited to:

- Surface science of bioactive coatings
- Deposition and growth of biocompatible coatings
- Coatings-based polymers
- Surface modification by directed energy deposition (lasers, ion, or electron beams) or other techniques such as plasmas
- Friction performance, corrosion, and wear resistance of coated load-bearing implants and/or dental implants



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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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