



Multifunctional Coatings on Medical Devices

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Message from the Guest Editor

Dear Colleagues,

This Special Issue is dedicated to highlighting the important progress achieved in the development of multifunctional coatings on the surface of biomaterials used in medical devices, such as implants, scaffolds for tissue engineering, etc. Multifunctional coatings can give an implantable system certain properties, depending on the function and location of the medical device. Thus, many coatings on implantable devices can promote interactions with adjacent cells and tissue fluids. For this Issue, the following biomaterials are considered, but not limited to: metals (Ti, Mg, etc.) and their alloys, polymers, ceramics, hydroxyapatite.

Potential topics:

The scope of this Special Issue will serve as a forum for papers in the following concepts regarding multifunctional coatings on the surface of the biomaterials used in medical devices, such as implants, scaffolds for tissue engineering, and others:

- Composite coatings;
- Smart coatings;
- Antimicrobial coatings;
- Antifouling coatings;
- Immobilization of biofunctional molecules and biomolecules to form biofunctional coatings;
- Drug delivery coatings.





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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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