Special Issue

Recent Developments in Multifunctional Biomaterials and Coatings

Message from the Guest Editors

The Special Issue aims to explore cutting-edge developments in the design and application of novel biomaterials and surface coatings that offer multiple functional attributes. The focus will be on innovative materials that not only support the basic requirements of biocompatibility and bioactivity but also integrate additional functionalities like self-healing. responsiveness to environmental stimuli, antimicrobial activity, and the ability to modulate cellular behaviors. Contributions to this Special Issue include innovative fabrication techniques such as layer-by-layer assembly. electrospinning, 3D printing, laser deposition, and nanoprecipitation. Papers may cover new synthetic approaches, material characterization, in vitro and in vivo performance assessments, and clinical translation efforts. We welcome innovative material formulations and their mechanisms of action for biomedical applications.

Guest Editors

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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.

Coatings is a well-established, peerreviewed, online journal dedicated to the vibrant field of surface science and engineering. Coatings publishes original research articles that report cutting-edge results and review papers that make the point on the hottest research topics.

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