Special Issue

Recent Advances in Functional Coatings and Biomaterials Surfaces

Message from the Guest Editors

Notably, biopolymers of a natural origin exhibiting heightened biocompatibility, bioactivity, and antibacterial attributes are gaining prominence. Chitosan, a derivative of chitin sourced from crustacean exoskeletons, insects, and fungal cell walls, stands out in this regard. Chitosan-based coatings are garnering increasing attention in implantology for their potential applications in controlled drug delivery systems, wound healing, and facilitation of bone tissue integration processes. However, the development of a homogeneous coating that fully envelops the often developed implant surface, ensuring robust resistance to the corrosive human body environment, proves to be a formidable task. Furthermore, ensuring the robust adhesion of such coatings to the implant and their resistance to wear presents additional challenges. Articles addressing solutions to these issues will be the focal point of this Special Issue. However, submissions need not be confined exclusively to these topics.

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Message from the Editor-in-Chief

The biomaterials field is one of the largest and fastest growing research areas both in the scientific community and in the industrial one. Biomaterials are the result of collaborations between different disciplines: chemistry, medicine, pharmacology, engineering and biology. The objective of this collaboration is to lead to the implementation of new devices to restore form and human body functions. The mission of the *Journal of Functional Biomaterials* (*JFB*) is to focus attention on physico-chemical characteristics and their importance in the interactions between biomaterials and living tissues. *JFB* seeks to publish studies on the preparation, performance and use of biomaterials in biomedical devices, as well as regarding their behavior in physiological environments. We are pleased to welcome you as our authors.

Editor-in-Chief

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