Special Issue

Multifunctional Coatings for Bone Regenerative Medicine

Message from the Guest Editor

It remains a significant challenge to achieve an optimal biofunctionalized implant, mainly because they offer only a single functionality. On the other hand, because of recent progress in additive manufacturing technologies which allows researchers to design and fabricate rationally designed and topologically complex structures, it is now possible to introduce biomaterials with unprecedented combinations of mechanical, physical, and biological properties. Therefore, it is essential to focus on further developments in a new generation of biomaterials that offer multiple functionalities, including enhanced bone regeneration, infection prevention, and also render bespoke release profiles of the active agents to address unmet clinical needs.

This Special Issue aims to highlight the recent strategies in multifunctional coatings for bone regenerative medicine application. It is our pleasure to invite you to contribute your research article, communication or review for this Special Issue.

For more information, you can click the following link: https://www.mdpi.com/journal/materials/special_issues/multifunctional_coatings_bone_regenerative_medicine

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Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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