Special Issue

Advanced Technologies for Processing Functional Biomaterials

Message from the Guest Editor

Biomaterials processing is a crucial stage that involves mechanical and chemical treatment of the source material to be developed into a biocompatible and bioactive product for a specific medical application. The processing of biomaterials involves changing the bulk or surface properties, obtaining a desired shape, or improving the biocompatibility of the material. Manufacturing and processing techniques for various biomaterials and structures are different. For example, for metal biomaterials, alloying, strain hardening, and annealing methods are common, Injection molding, melt extrusion, and electrospinning are suitable methods for processing polymeric biomaterials. Porous structures can be obtained using either the foaming process or the particle-leaching technique. The fabrication of 3D structures is important in tissue engineering; it is common to use freeze drying, gas foaming, electrospinning, laser-assisted techniques, and so on. This Special Issue aims to provide readers recent advances in the processing techniques of all kinds of biomaterials. It is our pleasure to invite you to submit a manuscript for this Special Issue.

Guest Editor

Dr. Daniel Sola

- 1. Instituto de Nanociencia y Materiales de Aragón, Universidad de Zaragoza-CSIC, 50018 Zaragoza, Spain
- 2. Aragonese Foundation for Research and Development (ARAID), 50018 Zaragoza, Spain

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Journal of Functional Biomaterials Editorial Office MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 jfb@mdpi.com

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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

Prof. Dr. Pankaj Vadgama

School of Engineering and Materials Science, Queen Mary University of London, London, UK

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