Special Issue

Advance in Biomaterials for Tissue Engineering

Message from the Guest Editor

Biomaterials for tissue repair are constantly emerging; however, only a few of them really meet the requirements of clinical application. Therefore, biomaterials with high-performance properties are urgently required. Further, one major obstacle to the development of biomaterials is the imperfection of the mechanism for tissue repair induced by biomaterials, and the interaction between biomaterials and proteins or other biological molecules is little known. Advanced methods and outstanding experimental design are needed to break through this choke point. This Special Issue aims to present recent advanced biomaterials for tissue repair, focusing on intelligent methods to regulate cellular behavior and tissue response. Original articles and review papers will deal with the following themes, without being limited to them: advances in biomaterials for tissue repair, optimization of the properties of biomaterials, inflammation response and regulation of biomaterials in tissue repair processes, and the interaction between biomaterials and proteins, peptides, and other biological molecules.

Guest Editor

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Message from the Editorial Board

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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