

Special Issue

Advanced Composite Biomaterials for Tissue Regeneration

Message from the Guest Editor

Biomaterials for tissue repair are continuously evolving; however, only a select few meet the rigorous demands for clinical application. Hence, there is an urgent need for composite biomaterials with superior properties, encompassing composite composition, spatial structure, porosity, degradation capability, surface morphology, and other crucial physical and chemical attributes at the interface. A significant challenge hindering the advancement of composite biomaterials lies in the incomplete understanding of the mechanisms governing tissue repair induced by these materials. Cutting-edge methodologies and innovative experimental designs are essential to overcome this bottleneck. This Special Issue aims to showcase recent advancements in composite biomaterials for tissue repair, emphasizing intelligent strategies to regulate cellular behavior and tissue responses. Original research articles and comprehensive reviews will cover a broad spectrum of topics including advancements in biomaterials for tissue repair, optimization of biomaterial properties, inflammation response, regulation of biomaterials in tissue repair processes, and other biological molecules.

Guest Editor

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Message from the Editor-in-Chief

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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