

Special Issue

Bioceramics and Related Hybrid Materials for Tissue Reconstruction

Message from the Guest Editor

Bioceramics have been clinically used for repairing hard tissues such as bone, teeth, and joints because they have a high biocompatibility to bond to bone.

Hybridization, such as bioceramic coating on metal implants for artificial joints to impart osteoconduction and the improvement of mechanical properties by bioceramics-polymer hybrids is also extensively promoted. In the future, we expect that bioceramics and hybrid materials with a highly hierarchical structure through biomimetic processes that mimics the process of tissue formation in the living body, and novel biological functions including as antibacterial properties and sensing/imaging properties will be developed. In this Special Issue, we are looking for papers on the latest achievements in bioceramics and related hybrid materials.

Guest Editor

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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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