Special Issue

Advances in Bone Substitute Biology, Production, and Materials

Message from the Guest Editor

Over the past decade, we have witnessed new developments in bone substitute materials and their production by additive manufacturing. These developments aim towards a better application of osteoinduction, osteoconduction, and stem cells for bone tissue engineering. However, autologous bone grafts are still the gold standard for daily clinical treatments. The main focus of the forthcoming 'Advances in Bone Substitute Biology, Production, and Materials' issue is to present a comprehensive overview of these new developments. The various topics encompass all kinds of new materials their interaction with biological systems and production methodologies like additive manufacturing/3D-printing, osteoconduction, surface modifications, osteoinduction, and the application of stem cells. Moreover, I would like to include sophisticated examples of successful combinations already tested for their application in dentistry and orthopedics. With immense pleasure, I invite you to submit a manuscript for this Special Issue. Full papers, communications, and reviews are welcome.

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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