Special Issue

Orthopedic Materials and Bone Medicine

Message from the Guest Editor

Musculoskeletal diseases affect over 100 million Americans and represent the highest burden to the healthcare system in the USA. As the population ages, the prevalence of these incapacitating disorders will increase. Therefore, there is a great need to develop new orthopedic materials and approaches for the replacement of bones, teeth, and joints and for the repair and regeneration of bone and craniofacial defects. Over the last half century, we have witnessed the emergence and evolution of materials intended for biomedical purposes, from bioinert materials, to bioactive and biodegradable materials, to materials designed to interact with the host tissue and elicit specific responses at the molecular and cellular level. In this Special Issue, we will discuss the evolution of different materials and approaches commonly used in orthopedic/craniofacial applications.
It is my distinct pleasure to invite you to submit a manuscript for this exciting Special Issue. Full papers, communications, and reviews are all welcome.

Guest Editor

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Deadline for manuscript submissions

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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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