Special Issue

Bioabsorbable and Permanent Materials for Highly Loaded Implants

Message from the Guest Editor

Innovations and further improvements are required, especially for highly loaded implants. In line with these demands, the main focus of this Special Issue is to collect scientific contributions dealing with the development of biomaterials with improved and unique mechanical properties for applications in highly loaded implants, longer implant lifespans and implant miniaturization while maintaining strength. There is also a great need for research to improve the mechanical properties of permanent implant materials. In general, strength improvements combined with high ductility enable materials to withstand higher loads or implants to be miniaturized under a given load. Finally, as the biointerface plays a critical role in implant–tissue interactions, contributions to implant coating strategies and their effects on the implant biofunctionality and corrosion behaviour are equally highly welcome. It is my pleasure to invite you to contribute your research articles, communications or reviews to this Special Issue.

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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