Special Issue

Mechanical Characterization, Behavior and Analysis of Biomedical Materials

Message from the Guest Editor

Biomedical materials are widely used for clinical diagnosis, treatment, and the repair or replacement of damaged tissues. At present, biomedical materials have become one of the fastest developing areas in medicine with the greatest potential. Many types of new materials have been developed and applied to medicine because of their physical/chemical properties, pathological effects, or structural/ultrastructural properties. Many studies have contributed to material design, manufacture, and characterization. Mechanical behavior is one of the most important properties for biomedical materials. Understanding the basic relationship between the functions, properties, structures, and components of various biomedical materials through theoretical analysis, numerical simulation, and experimental research will help in designing new materials and promoting their clinical application. This Special Issue is focused on the mechanical characterization, behavior, and analysis of biomedical materials. Researchers from both the academic and clinical environments are welcomed to publish results of their theoretical modeling, numerical simulation, and experimental tests in this field.

Guest Editor

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Message from the Editorial Board

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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