Special Issue

Advances in Machining of Biomedical Tissues

Message from the Guest Editors

Machining of biomedical tissues is a common procedure in the medical field. Efficiency, mechanical stress, and precision are crucial parameters in the machining of tissues, such as bone, because they strongly influence the postoperative results. At present, the machining technique has been improved by the development of new devices to reduce the time and increase the accuracy. In addition, the deformation of material during the machining has been well predicted with computational simulation (e.g., FEM). This Special Issue aims to explore and share new emerging concepts and technologies in the machining of biomedical tissues. Topics of interest include (but are not limited to) the following:

- Machining of biomedical tissues
- New concepts of surgical and clinical devices for bone and soft tissue
- Phenomena during machining
- Long-term follow-up studies on tissue regeneration
- Medical image analysis for bio-machining; navigation systems
- Biomedical applications of robotics
- Sensor technology
- Artificial intelligence and machine learning

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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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