Special Issue

The Application of Biomaterials in Surgery

Message from the Guest Editor

The current evolution of nanomedicine and new materials has an outstanding impact on new applications in medicine. Of particular significance is the possibility of using such materials in various fields of surgery.

Biomaterials can act as a substitute for certain anatomical structures, but also as a replacement for the healing process or even for an organ. Bioengineering performed impressive steps in the development of new technologies with an important impact in current medicine.

The main topics of this Special Issue are to be covered include implantable devices, scaffolds for tissue engineering, 3D organ bioprinting, microelectronic devices, and also developments of new materials used for special applications in surgery: metals, ceramics, synthetic polymers, biopolymers, or nanostructures with special properties.

In this context, I am pleased to invite you to submit a manuscript (original research article, communication, or review) for this Special Issue of Materials MDPI "The Application of Biomaterials in Surgery".

Guest Editor

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Deadline for manuscript submissions

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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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