Special Issue

Biomaterials and Implant Biocompatibility

Message from the Guest Editors

The scientific advances in life sciences and engineering constantly challenge, expand and redefine the concepts related to biocompatibility and safety of medical devices. New biomaterials, new products and new testing regimes are introduced in the scientific research practices. In order to provide clinically predictive results and to ensure a high benefit-risk ratio for the patients we need to optimize the material and implant characteristics, and to adapt the performance and safety evaluation practices for these innovative medical devices. We aim to focus on the recent progress in development, material testing, and biocompatibility and bioactivity evaluation of various materials including, but not limited to, bioceramics, biopolymers, biometals, composite materials, biomimetic materials, hybrid biomaterials and drug/device combinations for implants and prostheses with medical applications spanning from soft to hard tissue regeneration.

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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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