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Implantable Biomaterials: Design, Properties and Performance Evaluation

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Deadline for manuscript submissions:
closed (20 February 2022)

Message from the Guest Editors

Implantable biomaterials undoubtedly play a central role in a wide variety of healthcare issues. These materials provide biocompatible supports to replace missing parts, deliver and protect biological active products (drugs and cells), and easily tune chemical and physicochemical properties to a specific target. Outstanding achievements have been made in the wide field of biomaterials research, yet the demand for further advances and a deeper understanding of the mechanisms underlying biocompatibility and bioactivity remains high.

This Special Issue of *Materials* on "Implantable Biomaterials: Design, Properties and Performance Evaluation" aims at bringing together recent advances in all the relevant aspects of the design of a successful biomedical implant that can be readily translated into clinical applications. Thus, we invite all colleagues to share contributions ranging from biomaterials development and characterization to the evaluation of biological performance, passing for surface functionalization and mechanical properties assessment.

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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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