# Special Issue

# Implantable Biomaterials: Design, Properties and Performance Evaluation

## 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.

## Guest Editors

Dr. Monica Orsini

Department of Industrial, Electronic and Mechanical Engineering, Roma Tre University, Via Vito Volterra 62, 00146 Rome, Italy

Dr. Serena De Santis

Department of Engineering, Roma Tre University, 00146 Rome, Italy

## Deadline for manuscript submissions

closed (20 February 2022)

**Materials**

**an Open Access Journal by MDPI**

**Impact Factor 3.2**
**CiteScore 6.4**
**Indexed in PubMed**

mdpi.com/si/87644

*Materials*
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
materials@mdpi.com

mdpi.com/journal/materials

# Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/journal/materials

MDPI

# About the Journal

## 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.

## Editor-in-Chief

Prof. Dr. Maryam Tabrizian
1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada
2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

## Author Benefits

**Open Access:**

free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:**

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Ei Compendex, CaPlus / SciFinder, Inspec, Astrophysics Data System, and other databases.

**Journal Rank:**

JCR - Q2 (Metallurgy and Metallurgical Engineering) / CiteScore - Q1 (Condensed Matter Physics)