



materials



an Open Access Journal by MDPI

Metal and Ceramics Composite Materials for Prosthetic Hip and Knee Joint Replacement

Guest Editor:

Prof. Dr. Saverio Affatato

Laboratorio di Tecnologia
Medica, IRCCS – Istituto
Ortopedico Rizzoli, Via di
Barbiano 1/10, 40136 Bologna,
Italy

Deadline for manuscript
submissions:

closed (30 September 2020)

Message from the Guest Editor

Joint replacement surgery is a successful and consolidated branch of orthopaedics. It is a progressive achievement in alleviating pain and disability, helping patients to return to an active life. The research of new biomaterials plays an important role, and, as a consequence, in vitro tests for such materials are of great importance. Knowledge of the laboratory wear rate is an important aspect in the preclinical validation of prostheses. The research and development of wear-resistant materials continues to be a high priority, in order to evaluate the performance of the new materials intended to reduce wear it is essential to ascertaining their efficacy and to prevent the possibility of unexpected failure.

For more information, please click the following link:

https://www.mdpi.com/journal/materials/special_issues/metal_ceramics_joint-replcaement

Dr. Saverio Affatato
Guest Editor



[mdpi.com/si/26218](https://www.mdpi.com/si/26218)

Special *Issue*



an Open Access Journal by MDPI

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

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.

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

Contact Us

Materials Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/materials
materials@mdpi.com
[X@Materials_Mdpi](https://twitter.com/Materials_Mdpi)