



materials



an Open Access Journal by MDPI

Biomaterials Research in Oral Health and Clinical Dentistry

Guest Editors:

Dr. Zohaib Khurshid

Dr. Sompop Bencharit

Dr. Jithendra Ratnayake

Dr. Butt Faaz Ahmad

Deadline for manuscript
submissions:

closed (20 December 2023)

Message from the Guest Editors

Biomedical implants are used for rehabilitating the loss function of the body, such as mastication, walking as well as aesthetics, able to be performed with traditionally available titanium-based implants. However, the current advancements of novel technologies (e.g., 3D or 4D printing, CAD–CAM, selective laser melting, additive manufacturing) have optimized the clinical gaps in using biomedical implants in dentistry and orthopaedics. The use of these technologies reduces the chances of stress shielding, implant failure due to load and antimicrobial coverage, and the coating of biomedical implants with the help of bone morphogenic proteins, hydroxyapatite, bioactive glasses, magnesium, graphene, carbon, metal, metallic oxide, metallic hydroxide, etc., can help in reducing microbial contamination, providing long-term clinical success. This Special Issue invites researcher/academicians to submit original full papers, communications and comprehensive reviews describing the latest progress in implant design, surface coating, surface modification and biomechanics for dentistry and orthopaedics.



mdpi.com/si/110126

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

Contact Us

Materials Editorial Office
MDPI, St. Alban-Anlage 66
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)