



an Open Access Journal by MDPI

Biomaterials, Implants and Scaffolds in Additive Manufacturing

Guest Editors:

Dr. Dohyung Lim

Department of Mechanical
Engineering, Sejong University,
Seoul 05006, Republic of Korea

Vice Director Dr. Bongju Kim

Dental Life Science Research
Institute, Clinical Translational
Research Center for Dental
Science, Seoul National
University Dental Hospital, Seoul,
Korea

Deadline for manuscript
submissions:

closed (30 June 2021)

Message from the Guest Editors

Dear Colleagues,

Additive manufacturing (AM) is revolutionizing the production of implants and scaffolds with complex or intricate geometries for advanced functionality. Nevertheless, the AM processing conditions for manufacturing implants and scaffolds that fulfill clinical, material, and mechanical requirements requires further investigation. This can lead to undesirable material and mechanical characteristics that result in lower functionality. It is, therefore, importance to focus research efforts on the inter/post-processing optimization of the production of implants and scaffolds specialized for AM.

It is important to assess aspects of advanced/optimized biomaterials (surface morphology, design, geometry, porosity, and mechanical properties, material properties and materials composition) in AM in biomedical applications, including implants and scaffolds for the further development of high biocompatibility and safety.

This Special Issue will focus on recent progress in the development of implants and scaffolds using AM. Submitted manuscripts may cover all aspects of AM for the development of implants and scaffolds.



mdpi.com/si/29798

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)