

Special Issue

Recent Progress in Bioceramics and Their Composites

Message from the Guest Editor

The field of bioceramics and their composites has advanced significantly to restore, substitute, or regenerate not only skeletal hard but also soft tissues. These innovative materials have been studied to be applied for orthopaedic implants, bone substitutes, bone cements, dental prostheses, drug delivery carriers, and even for cancer treatments. In addition, the development and use of nanostructured materials, biomimetic materials, and inorganic–organic structures resulted in considerable scientific interest in the bioceramics field. Thus, this Special Issue focuses on topics covering the processing of novel bioceramics, and the synthesis of bio-hybrids and bioactive or bioresorbable composites in addition to the study of their biodegradability and biocompatibility. Contributions on innovative approaches such as the additive manufacturing of bioceramics and biocomposites, layer deposition techniques, tissue engineering, and drug delivery systems are also welcome.

Guest Editor

Dr. Csaba Balázs

Centre for Energy Research, Institute of Technical Physics and Materials Science, 1121 Budapest, Hungary

Deadline for manuscript submissions

closed (20 September 2025)



Materials

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed



mdpi.com/si/195170

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

[mdpi.com/journal/
materials](https://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](https://mdpi.com/journal/materials)



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)