



materials



an Open Access Journal by MDPI

Bioactive Materials in Dentistry

Guest Editor:

Prof. Dr. Ivana Miletić

Department of Endodontics and
Restorative Dentistry, School of
Dental Medicine University of
Zagreb, 10000 Zagreb, Croatia

Deadline for manuscript
submissions:

closed (20 July 2022)

Message from the Guest Editor

The evolution of dental materials and dentistry go hand in hand. Historically, the development of materials has evolved by mainly focusing on the improvement of physical and mechanical properties and enhancing their clinical performance and longevity. In recent times, there has been more emphasis on the development of bioactive materials that elicit a biological response. Bioactivity of the materials and a specific response at the interface between tissues and the material results in the formation of a bond and an apatite-like material by strong chemical interaction. Bioactive materials are produced in different forms and with different compositions. These materials are broadly used in all fields of dental medicine. Bioactive materials are promoted as dentin replacements, mimicking properties of hard dental tissues, and enabling biomineralization in dentin. Furthermore, in contact with pulp tissues or periodontal ligament, bioactive materials stimulate repair processes, and deposition of osseous tissue in injured bone.



mdpi.com/si/59342

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)