Special Issue

Innovative Restorative Dental Materials and Fabrication Techniques

Message from the Guest Editors

In recent decades, the development of restorative materials has led to reliable and aesthetic restorations. Furthermore, multifunctional materials have been developed to inhibit secondary caries and dentin regeneration in operative dentistry. New dental materials are constantly being developed for operative and endodontic treatment. Recent technological developments are expected to have future applications in aesthetic restoration, offering the appearance of natural teeth and functionality in preventing infectious diseases such as secondary caries and periodontal disease, combined with bioactivity properties such as the regeneration of dentin. In addition, advanced clinical data and meta-analysis have provided new insights into several dental materials already used in operative dentistry. For this Special Issue, we solicit current research that examines approaches to developing new or improved biomaterials in preventive medicine, bioengineering, health sciences, materials science, basic science, and clinical science related to operative dentistry. In addition, we invite reports highlighting new perspectives on dental materials using novel analytical methods.

Guest Editors

Prof. Dr. Yasuhiro Matsuda

Division of Clinical Cariology and Endodontology, Department of Oral Rehabilitation, School of Dentistry, Health Sciences University of Hokkaido, Hokkaido, Japan

Prof. Dr. Katsushi Okuyama

Department of Dental Materials Science, Division of Oral Functional Sciences and Rehabilitation, Asahi University School of Dentistry, Mizuho, Japan

Deadline for manuscript submissions

20 December 2025

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/237292

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

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

MDPI

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)