Special Issue

Research on the Properties of Dental Composites

Message from the Guest Editor

Dental composites is currently the most frequently used class of materials for the aesthetic restoration of tooth structures. The composites is in continuous development to answer clinical needs; it includes four major components: an organic polymer, inorganic fillers, a coupling agent and an initiator–accelerator system.

In general, the clinical choice of a restorative composite is based on the priority that should be given to mechanical or aesthetic characteristics: if the mechanical parameters are mostly important, the material showing the highest percentage of filler is selected; in the case of special aesthetic needs, the particle size is the factor that influences the selection.

This Special Issue aims to highlight and discuss the most innovative and representative dental composites, including their composition, properties of the components, technologies of processing, as well as the mechanical, optical, chemical, biological characteristics of the directly and indirectly processed materials belonging to this group.

It is my pleasure to invite you to submit a manuscript for this Special Issue. Full papers, communications, and reviews are all welcome.

Guest Editor

Prof. Dr. Diana Dudea

Department of Prosthodontics and Dental Materials, University of Medicine and Pharmacy "Iuliu Hatieganu", 400006 Cluj-Napoca, Romania

Deadline for manuscript submissions

closed (20 September 2023)

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/61232

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)