



an Open Access Journal by MDPI

Structure-Property Relationships in Polymer Networks and Related Materials for Dental and Medical Application

Guest Editor:

**Prof. Dr. Izabela
Barszczewska-Rybarek**

Department of Physical
Chemistry and Technology of
Polymers, Silesian University of
Technology, Strzody 9, 44-100
Gliwice, Poland

Deadline for manuscript
submissions:
closed (20 October 2023)

Message from the Guest Editor

Dear Colleagues,

Materials based on polymer networks have a superior status in dentistry and orthopedy. Dentistry and orthopedy are interested in the highest possible quality of materials offered, which must meet a number of physicochemical, mechanical and biological requirements throughout the service life.

As the chemical structure of monomers and the molecular structure of the resulting polymer networks determine the physicochemical, mechanical and biological properties of the material, comprehensive studies are essential for explaining and understanding these properties and their interrelations.

This Special Issue aims to highlight research within the structure–property relationships in polymer networks and related materials with commercial and potential applicability in dentistry and medicine. Studies on the newly designed systems, as well as chemically or physically modified well-known systems, are welcome. Model studies providing deeper investigations on structure–property relationships of well-known systems are also in demand.

Prof. Dr. Izabela Barszczewska-Rybarek
Guest Editor



mdpi.com/si/76706

Special Issue



an Open Access Journal by MDPI

Editors-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

Prof. Dr. Yuguang Ma

State Key Laboratory of Luminescent Materials and Devices, South China University of Technology, Guangzhou 510640, China

Message from the Editorial Board

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 and Metallurgical Engineering) / CiteScore - Q1 (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)