

Special Issue

Modifications of Glasses and Glass-Ceramics

Message from the Guest Editor

A powerful tool of tailoring properties of glassy materials (glasses and glass ceramics) is to subject these to external influences such as heat treatment, ion exchange, a DC and AC electric (or magnetic) field, stress and deformation, extrusion, any type of irradiation, ion implantation, etc., which result in modification of either their structure or composition, or any properties, including thermal, mechanical, chemical, optical, electric, or others. These modifications of glassy materials are of interest in the context of developing modern technologies related to graded-index optics, diffractive optics, plasmonics, fluidics, electrooptic and non-linear optic materials and devices, lithography, as well as photonics and optical communications. This Special Issue, "Modification of Glasses and Glass-Ceramics", will address advances in glassy material processing, characterization, and modeling, as well as technology development and applications of glassy materials modified by various types of external influence. Articles and reviews are welcome.

Guest Editor

Prof. Dr. Dmitry K. Tagantsev

High School of Physics and Technologies of Materials, Peter the Great St.-Petersburg Polytechnic University, Saint-Petersburg, Russia

Deadline for manuscript submissions

closed (30 September 2021)



Materials

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed



mdpi.com/si/57814

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)