

Special Issue

Advanced Insulating Materials and Technologies

Message from the Guest Editor

Insulating materials are widely applied in power equipment, electronic device and energy storage situations. It is clear that the future development of power energy transfer and storage depends on advanced insulating materials which can be solid, liquid or gas. Solid insulating materials can be polymeric materials, ceramics, biomaterials or composite materials. Although a large variety of materials is involved in the field of electric insulation, the main research interests have been the electrical performance of insulating materials such as polarization in electric field, dielectric loss, electric conductance and electric breakdown. Therefore, an exploration of the electrical performance and its dependence on the structure and components of varied materials is a key issue in the fields of both material science and electrical engineering. This Special Issue aims to present the state-of-the-art in and perspectives on advanced insulating materials for future electrical and electronic applications. Full papers, communications, and reviews are all welcome.

Guest Editor

Prof. Dr. Jianying Li

State Key Laboratory of Electrical Insulation and Power Equipment,
Xi'an Jiaotong University, Xi'an, China

Deadline for manuscript submissions

closed (31 January 2022)



Materials

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed



mdpi.com/si/72926

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)