Special Issue

Electrochromic Materials Research and Devices

Message from the Guest Editors

This Special Issue “Electrochromic Materials Research and Devices” will address recent advances and challenging issues regarding electrochromic materials and devices. Electrochromic materials can exhibit tunable transmission, absorption, and reflection towards solar irradiation under external electric fields. They have high-potential applications in the creation of energy-efficient windows for buildings and automobiles, and bright displays, as well as in optoelectronic and medical industries, and environmental technology. In terms of electrochromic materials and devices, researchers' main challenges are achieving high color contrast, quick color-changing speed, wide wavelength response range, long cycling stability and service life, and a high utilization efficiency of solar energy.

This Special Issue encourages the submission of articles and reviews dealing with recent advances in electrochromic materials research including, but not limited to, the following: inorganic, organic, and hybrid electrochromic materials and devices; electrochromic/energy storage/energy conversion dual or multi-functional materials and devices; simulation of electrochromic structures.

Guest Editors

Prof. Dr. Yong Zhang

School of Materials Science and Engineering, Hefei University of Technology, Hefei, China

Dr. Ye Yang

Ningbo Institute of Materials Technology and Engineering, Chinese Academy of Sciences, Ningbo, China

Deadline for manuscript submissions

closed (20 August 2024)

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/175740

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)