Special Issue

Surface and Electrochemical Characterization of Nanomaterials

Message from the Guest Editors

In the last couple of decades, we have witnessed an improvement in multifunctional applications of nanomaterials. The nature of various applications has given birth to nanoscience and nanotechnology, integrating fundamental and applied scientific research from a range of fields, such as medicine, biology, chemistry, physics, etc. Nanomaterial primary research and technological applications pave the way for emerging research in various disciplines involving and recognizing the nature of precise and improved outcomes at the nanoscale. Today, surface and electrochemical characterization methods involve the addressal of the dynamic nature of a nanomaterial's surface chemistry and other properties impacting its interaction with different materials, as well as exploring its behavior in the surrounding environment. Advanced electrochemical and surface characterization tools can address challenging issues associated with nanomaterials. The Special Issue aims to cover topics ranging from quantum effects to fluorescence, electrocatalysis to energy harvesting, corrosion to gas evolution, self-healing, and electromagnetic shielding to electro-thermal conductivity.

Guest Editors

Dr. Edward Song
Dr. Gaurab Dutta
Dr. Erica Perry Murray

Deadline for manuscript submissions

closed (20 January 2023)

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/116198

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)