



materials



an Open Access Journal by MDPI

Advanced Functional Materials for Energy Harvesting and Storage Applications

Guest Editors:

Dr. Jibran Khaliq

Department of Mechanical and Construction Engineering, Faculty of Engineering and Environment, Northumbria University, Newcastle upon Tyne NE1 8ST, UK

Dr. Chunchun Li

Guangxi Universities Key Laboratory of Non-Ferrous Metal Oxide Electronic Functional Materials and Devices, College of Material Science and Engineering, Guilin University of Technology, Guilin 541004, China

Deadline for manuscript submissions:

20 December 2024

Message from the Guest Editors

Dear Colleagues,

This Special Issue is dedicated to exploring cutting-edge advancements in functional materials designed for energy harvesting and storage applications. Encompassing a broad spectrum of research, the aim is to present innovative approaches and breakthroughs in the development of materials that play a pivotal role in enhancing the efficiency and performance of energy harvesting and storage systems. Contributions covering a diverse range of materials, from nanomaterials to advanced composites, and their applications in renewable energy technologies are encouraged. The scope of this Special Issue extends to the synthesis, characterization, and application of these materials, fostering a deeper understanding of their potential impact on the sustainable energy landscape. Researchers and practitioners are invited to share their insights, paving the way for the next generation of materials poised to revolutionize energy harvesting and storage technologies.

Dr. Jibran Khaliq

Dr. Chunchun Li

Guest Editors



mdpi.com/si/204355

Special Issue



an Open Access Journal by MDPI

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

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.

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 - Q1 (Metallurgy and Metallurgical Engineering) / CiteScore - Q2 (*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)