



an Open Access Journal by MDPI

Advanced Nanomaterials and Nanocomposites for Energy Conversion

Guest Editors:

Dr. Xiong Zheng

Associate Professor, College of Mechanical and Vehicle Engineering, Hunan University, Changsha, China

Prof. Dr. Lang Liu

Key Laboratory of Low-Grade Energy Utilization Technologies and Systems, Ministry of Education, School of Energy and Power Engineering, Chongqing University, Chongqing, China

Deadline for manuscript submissions:

20 December 2024

Message from the Guest Editors

Dear Colleagues

The rapid growth of the global population has significantly increased energy consumption and pressure on the environment. New materials with intriguing physical and chemical properties provide opportunities to address these challenges. Nanomaterials and nanocomposites have wide application potentials in energy applications, and the research in this area is developing fast, including the synthesis of nanomaterials, design of micro-structured materials, and their applications in energy areas (energy production, energy conversion, energy storage, etc.). The field is rapidly advancing into new areas of discovery.

It is my pleasure to invite you to submit a manuscript to this Special Issue. Full papers, communications, and reviews are all welcome.

Dr. Xiong Zheng
Prof. Dr. Lang Liu
Guest Editors



mdpi.com/si/203215

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)