



materials



an Open Access Journal by MDPI

Advanced Energy Materials for Solar Cells, Photocatalysis, and Optoelectronic Devices

Guest Editor:

Dr. Zhonglin Du

Institute of Hybrid Materials,
National Center of International
Joint Research for Hybrid
Materials Technology, National
Base of International Sci. & Tech.
Cooperation on Hybrid Materials,
Qingdao University, 308 Ningxia
Road, Qingdao 266071, China

Deadline for manuscript
submissions:

closed (10 October 2023)

Message from the Guest Editor

Dear Colleagues,

The dual pressure of energy crisis and environmental pollution is driving people to pay special attention to cost-effective and environmentally friendly energy resources. Among these types of renewable energy, solar energy has the largest potential owing to its wide-range coverage and environmental friendliness. In the last few decades, the development and use of solar energy have received tremendous attention and become a hot research topic. The evolution of new functional materials enhances technological advancement in modern-day society, and it has been observed in the past that advanced energy materials play an essential role in technological development. All kinds of materials have been developed and used in the field of energy conversion. This Special Issue focuses on materials related to solar cells, photocatalysis, and optoelectronic devices in research. We warmly welcome contributions of manuscripts reporting the development of all kinds of advanced energy materials, insights into energy conversion, as well as materials characterization.

Dr. Zhonglin Du
Guest Editor



mdpi.com/si/123900

Special Issue



an Open Access Journal by MDPI

Editors-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

Prof. Dr. Yuguang Ma

State Key Laboratory of Luminescent Materials and Devices, South China University of Technology, Guangzhou 510640, China

Message from the Editorial Board

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