Special Issue

New Developments in Perovskite Solar Cells

Message from the Guest Editor

Perovskite solar cells have been pursued as the next-generation photovoltaic technology. With excellent optoelectronic traits, such as high absorption coefficient, long charge carrier diffusion length, high charge carrier mobility, defect tolerance, low exciton binding energy, and ambipolar charge transport, perovskites are captivating. With the rapid increase in power conversion efficiency to 25.5% (at cell level) already demonstrated by this technology, perovskites have the potential to deliver affordable solar electricity and thereby compete with the mainstream silicon photovoltaics. For more details of the Special Issue, please click the following link: https://www.mdpi.com/journal/materials/special_issues/new_developments_perovskite_solar_celles

Guest Editor

Dr. Ashim Gurung

Department of Electrical Engineering and Computer Science, South Dakota State University, 1250 8th st., Brookings, SD 57007, USA

Deadline for manuscript submissions

closed (10 November 2022)

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/81303

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)