Special Issue

Advances and Applications of Light-Driven Heterojunction Built-In Nanomaterials

Message from the Guest Editors

The material science domain contains a variety of photocatalysts that can address this versatile area of application. This prospect has led to a large amount of multidisciplinary research on the built-in heterojunction photocatalyst with improved structural, morphological and electronic properties, effectively increasing their efficiency. This Special Issue will provide an overview of the latest advances in this field, offering insights into the latest generation of photocatalytic materials. It plans to focus on the challenges, future directions and strategies for designs within the area of heterojunction photocatalysts and will be a useful resource for promoting research in this field. Therefore, the Special Issue will focus on:

- Advanced materials and their heterojunctions for enhanced photocatalysis;
- Photocatalyst modification (e.g., by noble metal, C nanotubes, etc.) and doping;
- Photoelectrochemical, photocatalytic and photobiological solar fuel production;
- Innovative synthesis and characterization methodologies.

Guest Editors

Dr. Leong Kah Hon

Department of Environmental Engineering, Faculty of Engineering and Green Technology, Universiti Tunku Abdul Rahman Kampar Campus, Jalan Universiti, Bandar Barat, Kampar 31900, Perak, Malaysia

Dr. Saravanan Pichiah

Indian Institute of Technology (Indian School of Mines), Dhanbad, India

Deadline for manuscript submissions

closed (20 November 2023)

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/165330

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

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)