nanomaterials

IMPACT FACTOR 4.4

Indexed in: PubMed

CITESCORE 8.5

an Open Access Journal by MDPI

Advanced Nanomaterials for Water Splitting

Guest Editor:

Prof. Dr. Chung-Li Dong
Department of Physics, Tamkang University, Tamsui 25137, Taiwan

Deadline for manuscript submissions:
closed (31 August 2022)

Message from the Guest Editor

The research on solar hydrogen generation by water splitting is growing rapidly. This special issue will focus on the recent progress and latest advanced research on photocatalysts, electrocatalysts, photoelectrochemical cells, which have great potential for clean and sustainable energy. For this special issue, we solicit original research manuscripts on, but not limited to, the following research areas: (1) Emerging photocatalysts, electrocatalysts, or photoelectrochemical cells for water splitting; (2) Advanced in situ/operando characterizations; (3) Synthesis and characterization of novel nanoscale photoelectrodes for solar energy materials; (4) Plasmonic nanostructures for solar energy applications; (5) Defect engineering and surface passivation for efficient water splitting redox reactions; (6) Electronic structures and physicochemical properties of surface and interface of hybrid nanostructures for solar energy conversion; (7) Charge carrier dynamics in photocatalysts and photoelectrodes; (8) New concepts and modelling of materials and devices for efficient water splitting.

nanomaterials

IMPACT FACTOR 4.4 | Indexed in: PubMed | CITESCORE 8.5

an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Shirley Chiang
Department of Physics, University of California Davis, One Shields Avenue, Davis, CA 95616-5270, USA

Message from the Editor-in-Chief

Nanoscience and nanotechnology are exciting fields of research and development, with wide applications to electronic, optical, and magnetic devices, biology, medicine, energy, and defense. At the heart of these fields are the synthesis, characterization, modeling, and applications of new materials with lower nanometer-scale dimensions, which we call "nanomaterials". These materials can exhibit unusual mesoscopic properties and include nanoparticles, coatings and thin films, metal–organic frameworks, membranes, nano-alloys, quantum dots, self-assemblies, 2D materials such as graphene, and nanotubes. Our journal, *Nanomaterials*, has the goal of publishing the highest quality papers on all aspects of nanomaterial science to an interdisciplinary scientific audience. All of our articles are published with rigorous refereeing and open access.

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, CAPlus / SciFinder, Inspec, and other databases.
Journal Rank: JCR - Q2 (*Chemistry, Multidisciplinary*) / CiteScore - Q1 (General Chemical Engineering)

Contact Us

Nanomaterials Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/nanomaterials
nanomaterials@mdpi.com
𝕏@nano_mdpi