nanomaterials

IMPACT FACTOR 4.4

Indexed in: PubMed

CITESCORE 8.5

an Open Access Journal by MDPI

Quantum Materials for Photonic Devices

Guest Editor:

Prof. Dr. Chun-Feng Lai
Department of Photonics, Feng Chia University, Seatwen, Taichung 40724, Taiwan

Deadline for manuscript submissions:
closed (20 May 2023)

Message from the Guest Editor

In recent years, quantum materials have emerged concept across diverse fields of science and engineering. Quantum materials are a promising and broad class of materials that feature optical and electronic properties that can be engineered through their composition and crystal structure, such as quantum dots, quantum rods, quantum wells, etc. From a material and photophysics perspective, exciting opportunities remain in the understanding and harnessing of electrons in highly confined materials. In addition, photonic devices are components for creating, manipulating, or detecting light, such as laser diodes, light-emitting diodes, solar or photovoltaic cells, displays, optical amplifiers, etc. Therefore, “quantum materials” developed for photonic device applications could drive the commercialization of display and lighting applications and provide promising developments in the related fields

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