





an Open Access Journal by MDPI

Sustainability in Nanomaterials and Photonics Research

Guest Editors:

Dr. Kunyan Zhang

Department of Chemistry, University of California, Berkeley, CA 94720, USA

Dr. Na Zhang

Department of Physics, The Pennsylvania State University, State College, PA 16801, USA

Dr. Bartolomeu Cruz Viana

Department of Physics, Federal University of Piaui, Teresina 64049-550, Brazil

Deadline for manuscript submissions:

closed (27 April 2024)

Message from the Guest Editors

In recent years, the fields of nanomaterials and photonics have witnessed remarkable progress, enabling breakthroughs in numerous scientific and technological domains, including advanced electronics, biomedical diagnostics, and environmental remediation. These advancements have sparked a growing interest in exploring sustainable approaches within these research areas. Sustainability has become a paramount concern, emphasizing the urgent need to develop environmentally friendly and energy-efficient solutions. The synergy between nanomaterials and photonics presents an extraordinary opportunity to address sustainability challenges.

This Special Issue aims to explore the intersection of sustainability and nanomaterials and photonics research. By focusing on key aspects such as the controllable synthesis of low-dimensional materials using green fabrication techniques, sustainable investigations into the fundamental properties of these materials, and their application in catalysis, energy storage and conversion, sensing, and water purification, this Special Issue will shed light on cutting-edge research efforts that align with the principles of sustainability.









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, 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, metalorganic 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