

an Open Access Journal by MDPI

Perovskite Nanostructures: Synthesis, Properties and Applications

Guest Editors:

Prof. Dr. Jianxi Yao

1. State Key Laboratory of Alternate Electrical Power System, North China Electric Power University, Beijing, China 2. Beijing Laboratory of Energy and Clean Utilization, North China Electric Power University, Beijing, China

Dr. Jia Xu

Beijing Key Laboratory of Energy Safety and Clean Utilization, School of Renewable Energy, North China Electric Power University, Beijing, China

Deadline for manuscript submissions:

closed (20 September 2024)

Message from the Guest Editors

Dear Colleagues,

Perovskite nanostructures gained significant have attention in recent years due to their exceptional properties and promising applications in various fields. The enhanced light absorption, tunable bandgaps, high charge carrier mobility, and exceptional catalytic activity exhibited by perovskite nanostructures are results of their quantum confinement effects and surface/interface phenomena. They are affected strongly by synthesis approaches, so characterizing these properties and understanding their synthesis mechanisms, structure-property relationships, and manipulation techniques are vital for harnessing their full potential and advancing various technological domains

The Special Issue focuses on the latest developments in and practical applications of perovskite nanostructures. It aims to attract both academic and industrial researchers in order to enhance the current knowledge on perovskite nanostructures and present new ideas for a wide range of future applications and technologies.

Please see more details at the following link: mdpi.com/si/178799

Prof. Dr. Jianxi Yao Dr. Jia Xu Guest Editors









CITESCORE 9.2

an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Eugenia Valsami-Jones

School of Geography, Earth and Environmental Science, University of Birmingham, Birmingham B15 2TT, UK

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 (Physics, Applied) / CiteScore - Q1 (General Chemical Engineering)

Contact Us