





an Open Access Journal by MDPI

Graphene-Semiconductor Composites: Preparation and Applications

Guest Editor:

Dr. Luisa Pastrana-Martínez

Department of Inorganic Chemistry, University of Granada, Granada, Spain

Deadline for manuscript submissions:

closed (31 March 2021)

Message from the Guest Editor

Dear Colleagues,

Because of the unique structure and excellent properties of graphene derivatives (such as graphene oxide (GO) or reduced graphene oxide (rGO)), the coupling of graphene with semiconductor materials presents the possibility to design and fabricate novel graphene-based materials. These composites have attracted extensive attention for their potential in environmental and energy applications. The Special Issue will be devoted to new developments and fundamental advances on graphene-semiconductor composites with tuned textural and surface chemical properties, and their applications in the photodegradation of organic pollutants, photocatalytic splitting of H2O, and photocatalytic reduction of CO2, as well as carbon electrodes for energy production and storage, among others.

It is our pleasure to invite you to submit a manuscript for this Special Issue. Full papers, short communications, and reviews are welcome.

Dr. Luisa M. Pastrana-Martínez Guest Editor









CITESCORE 7.4

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

Contact Us