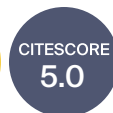




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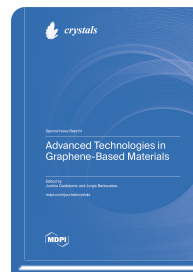
Special Issue Reprint

Advanced Technologies in Graphene-Based Materials

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Graphene-based materials, including single-layer and laser-induced graphene, carbon nanotubes, and graphene oxide, have revolutionized modern materials science due to their exceptional properties and diverse applications. These materials are driving innovations in electronics, catalysis, biosensors, and biomedicine, among others. Continuous advancements in synthesis techniques, functionalization methods, and characterization approaches are essential for fully unlocking their potential.

This Special Issue on “Advanced Technologies in Graphene-Based Materials” gathers groundbreaking research delving into the multifunctional nature of graphene and its derivatives. This collection includes a mix of original research and review articles, covering topics such as the biocompatibility of graphene in drug delivery systems, the use of graphene-supported metal hydrides in energy storage, and the role of graphene oxides in enhancing the mechanical properties of composites. Additionally, it explores the electronic tuning of graphene for advanced devices, environmental applications, and the synthesis of novel graphene-like materials.

This reprint offers valuable insights into the latest advancements and future possibilities of graphene-based technologies, making it an essential resource for researchers and professionals in the field.



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