Special Issue

Graphene and Other 2D Materials Integration in Photovoltaic Devices

Message from the Guest Editor

Graphene and several other two-dimensional materials, such as carbon based materials, silicate clays, transition metal dichalcogenides and transition metal oxides, carbides, nitrides, or carbonitrides are commonly used as active layers, electrodes, dopants or interface layers in solar cells. The purpose of this Special Issue is to collect high-quality articles dealing with the design, fabrication and characterization of graphene and other two-dimensional materials integrated in photovoltaic devices based on different technologies such as silicon heteroiunction, organic and perovskite solar cells and tandem devices. Currently, this research topic is among the hottest in material and device science, from both a technological and a fundamental perspective. Although the Special Issue is focused mainly on practical applications, it also includes theoretical aspects. We strongly encourage the submission of both research papers and review articles.

Guest Editor

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Deadline for manuscript submissions

closed (20 October 2023)



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Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. Materials provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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