Special Issue

Manufacturing and Applications of 2D Photoelectric Materials and Devices

Message from the Guest Editors

The discovery of graphene signified a new era of two-dimensional (2D) materials research. Two-dimensional semiconductor materials with suitable bandgap have excellent electrical, optical, and mechanical properties, showing great application prospects in the fields of new-generation, high-performance electronic, optoelectronic, and flexible devices. In the past decade, a great deal of research has been devoted to controllable fabrication of 2D semiconductor materials, as well as the construction of various optoelectronic devices. However, the large-scale fabrication of high-quality 2D semiconductor materials and the reliable evaluation of high-performance optoelectronic devices still require further exploration. This Special Issue will focus on state-of-the-art works in 2D semiconductor materials and advanced optoelectronic devices. It will mainly report on the high-quality, large-scale fabrication of novel 2D semiconductor materials and the construction of advanced optoelectronic devices. In order to promote the development of 2D semiconductor materials and optoelectronic devices, we cordially invite you to contribute to this Special Issue.

Guest Editors

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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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