Special Issue

Characterization and Application of 2D Materials

Message from the Guest Editor

Since the isolation of the first single layer of graphene and the confirmation of its eminent optical, electrical, and mechanical properties, intense interest has focused on the family of 2D nanomaterials and all existing layered materials. Two-dimensional materials hold remarkable promise for optics, optoelectronics, energy, life science, etc. In the past few years, tremendous efforts have been made toward the growth of high-quality and large domain films, as well as the realization of potential applications. However, the unique physical properties of 2D materials remain buried, and the diverse applications remain untapped. Therefore, 2D materials require further comprehensive and insightful work in making a substantial transition from the search for new candidates and optimization (breadth) to exploration of exquisite device architecture and exotic physical phenomena (depth). The aim of this Special Issue, entitled “Characterization and Application of 2D Materials”, is to offer the latest cutting-edge research and development of 2D materials.

Guest Editor

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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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