Special Issue

Graphene and other Two-dimensional Materials in Nanoelectronics and Optoelectronics

Message from the Guest Editor

Graphene and other two-dimensional (2D) materials have been one of the hottest research areas in the past decade. Giant projects, e.g., the EU Graphene Flagship led by Chalmers, have been launched. Today, commercial graphene products are readily available. However, most of them are graphene-based powders, paints, and composites. They are exciting, but one should not forget that the original motivation of Geim et al. to explore graphene was to study its field effect, hoping it would play a key role in post-silicon electronics. After all, nanoelectronics and optoelectronics are the main thread for 2D materials. That is the field where scientists tell the public 2D materials could replace, or at least complement the dominant role of Si in electronics. For more details, please click the following link: http://www.mdpi.com/journal/materials/special_issues/graphene_2d

Guest Editor

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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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