Special Issue

Graphene Up: From Single Layer to Applications and Devices

Message from the Guest Editor

Graphene possesses outstanding properties that can be further improved through controlled interaction with both organic and inorganic materials to create hybrids. This Special Issue is devoted to graphene as a building block and orienting material in nanoarchitectures for application and devices. Papers are welcome on the synthesis, characterization and applications of hybrid 2D–2D graphene, graphene–organic frameworks, graphene in vertically and perpendicularly oriented frameworks, graphene as a structure-directing material, layer-by-layer growth of graphene, graphene interlayered with hybrid materials, and supported and multilayered graphene materials. Graphene-hybrid devices may include, among others, adsorbent membranes, sieves, energy storage, and batteries. Applications of graphene nanoarchitectures may display enhanced electronic, thermal, transport, or mechanical properties or provide further insight into the mechanisms subtending the graphene–hybrid properties.

Guest Editor

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Deadline for manuscript submissions

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Message from the Editorial Board

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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