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Graphene Up: From Single Layer to Applications and Devices

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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.

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Message from the Editor-in-Chief

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