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Graphene Nanoelectronic Devices

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Message from the Guest Editor

Graphene has attracted increasing attention since 2004 due to its excellent mechanical, optical and electrical properties. Its high theoretical specific surface area and high electrical conductivity make it an attractive material for many industrial applications. Also, it is a transparent material that can be used for electrodes, solar cells, light emitting diodes (LEDs, OLEDs), touchscreens and LCD displays, and in the near future, its flexibility will let to create foldable and wearable devices. Its biocompatibility has also allowed the development of new sensors for the biomedical industry. In addition, as a consequence of the increasing demand for more efficient, longer-lasting and more compact portable electronic devices, the use of graphene in energy storage devices is one of the most promising applications. Finally, the combination of graphene with other 2D materials allows the creation of new devices.

This Special Issue seeks to showcase research papers, short communications, and review articles that focus on novel graphene nanoelectronic devices towards challenging applications in electronics, sensors, solar cells, optoelectronics, transducers and energy.

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Message from the Editor-in-Chief

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