Special Issue

Graphene Nanoelectronic Devices

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.

Guest Editor

Prof. Dr. Javier Martinez Rodrigo

Institute for Optoelectronics Systems and Microtecnology (ISOM), E.T.S.I.Telecomunicación, Technical University of Madrid (UPM), 28040 Madrid, Spain

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Micromachines
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
micromachines@mdpi.com

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Editor-in-Chief

Prof. Dr. Ai-Qun Liu
1. Department of Electrical and Electronic Engineering, The Hong Kong Polytechnic University, Hong Kong, China
2. School of Electrical and Electronic Engineering, Nanyang Technological University, Singapore 639798, Singapore

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