Special Issue

Advances in Research on Graphene and Related Materials: From Preparation and Tuning Properties to Applications

Message from the Guest Editors

In this special Issue is intended to present from basis of Graphene properties towards advances in the cutting edge of knowledge focused on last studies in progress. It is intended to show and discuss Research in many topics such as; i)semiconductors, ii) Opto-electronics, iii) Nano-Optics; iv) Electromagnetic fields, v) Plasmonics, vi) Quantum Dots; vii) Quantum emissions; viii) Quantum phenomena; ix) Thermo-responsive properties, etc.. In this manner many approaches and strategies are attended to present and develop, as for example i) design and synthesis of Optical active Nanoplatforms; ii) chemical modifications of Graphene and derivatives; iii) chemical modification of substrates; iv) Hybrid Nanocomposites; ii) Heterojunctions; iii) Nano-, Micro-devices; etc. Moreover the implication of Graphene based materials within Bioapplications open the possibility to propose Research works focusing on Bioconjugation and uses in Nanotechnology from Nanomedicine to frontiers in Quantum Biology. In this manner it is attended to cover a wide spectrum of interest involucred. Click here to get more information or submit one paper.

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Message from the Editor-in-Chief

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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