

## Special Issue

# Carbon Nanomaterials: Graphene, Nanoribbons and Quantum dots

### Message from the Guest Editors

Graphene is a honeycomb carbon-based two-dimensional (2D) crystal consisting of benzene-like rings with a strong in-plane sp<sup>2</sup> bonding. When it is synthesized with the aid of a substrate, the carbon atoms rearrange in graphene structure due to a substrate mediated self-assembly process. To extend the range of applications and gain new insights into graphene family materials, graphene nanoribbons and quantum dots will be brought to the readers' attention.

This Special Issue will cover recent advances in material synthesis and theoretical modeling of graphene based structures. The main focus will be on phenomena and processes underlying growth mechanism, physical properties and sensing device performance. Keywords

- carbon nanostructures
- sp<sup>2</sup> bonding
- synthesis
- sensors
- modeling

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### Guest Editors

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### Deadline for manuscript submissions

closed (31 December 2019)



## Materials

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*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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