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Carbon Nanomaterials: Graphene, Nanoribbons and Quantum dots

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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^2 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^2 bonding
- synthesis
- sensors
- modeling

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Message from the Editor-in-Chief

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