

Special Issue

Graphene-Based Nanomaterials: Synthesis, Properties, and Applications

Message from the Guest Editor

Graphene is a 2D material of carbon atoms arranged in a honeycomb lattice, it has been proposed as an ideal candidate for a great number of applications. However, some applications require graphene-based materials with different properties than graphene. Graphene oxide and reduced graphene oxides are the most studied derivatives, however, graphene quantum dots, doped graphene with electron-deficient or electron-rich atoms, hybrid nanostructures based on graphene have aroused great interest in recent years. This Special Issue has the purpose of addressing the recent fundamental and applied aspects used in the design of new materials based on graphene to solve important challenges in advanced applications.

- Graphene oxide and reduced graphene oxide
- Doped graphene
- Graphene quantum dots
- Graphene-based hybrids
- Physical and chemical properties and characterization
- Applications in different fields such energy, catalysis, optoelectronics, biomedicine, sensing, etc.

Guest Editor

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About the Journal

Message from the Editorial Board

Now more than ever, research is asked to deliver knowledge and technologies to solve the major challenges faced by our society. The development of new materials and devices for (without the ambition to be exhaustive) energy, health and food technology, together with the need for establishing processes that reduce the impact on critical resources and the environment, is indeed in the spotlight of most contemporary research. Surface science and engineering play a key role in this regard, with an incredible potential in delivering new and deep scientific understanding and technical solutions essential to solve most of the major societal challenges.

Coatings is a well-established, peerreviewed, online journal dedicated to the vibrant field of surface science and engineering. Coatings publishes original research articles that report cutting-edge results and review papers that make the point on the hottest research topics.

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