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Synthesis Methods of Graphene Nanoplatelets and Their Applications in Metal and Polymer (Epoxy) Based Nanocomposites

Guest Editor:

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Deadline for manuscript submissions:
closed (31 December 2021)

Message from the Guest Editor

Graphene nanoplatelets have in recent years become one of the most intensively studied materials. This is due to their unique electrical and mechanical properties, as well as their various fields of application, which include as composite materials based on metals and polymers (including epoxy), in catalysis, as sorbents, as material for supercapacitors, and in solving various other problems. This Special Issue of *Nanomaterials* aims to cover the newest methods of synthesis of GNP and recent advancements in the use of GNP nanoparticles for composite materials, supercapacitors, and conductive polymers, as well as their lightweight but durable plastic form and possibility to increase thermal conductivity, electrical conductivity, strength properties of different materials, and capacitive properties of batteries and supercapacitors.

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Editor-in-Chief

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Message from the Editor-in-Chief

Nanoscience and nanotechnology are exciting fields of research and development, with wide applications to electronic, optical, and magnetic devices, biology, medicine, energy, and defense. At the heart of these fields are the synthesis, characterization, modeling, and applications of new materials with lower nanometer-scale dimensions, which we call "nanomaterials". These materials can exhibit unusual mesoscopic properties and include nanoparticles, coatings and thin films, metal–organic frameworks, membranes, nano-alloys, quantum dots, self-assemblies, 2D materials such as graphene, and nanotubes. Our journal, *Nanomaterials*, has the goal of publishing the highest quality papers on all aspects of nanomaterial science to an interdisciplinary scientific audience. All of our articles are published with rigorous refereeing and open access.

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