Special Issue

Layered Nano-Sheets: Synthesis and Applications

Message from the Guest Editor

Extraordinary physical and chemical properties are enabled by two dimensional (2D) anisotropy and confinement effects in layered nano-sheet materials. Layered nano-sheet materials are 2D crystals possessing properties that are useful in applications ranging from electronics and energy storage to structural load bearing nanocomposites. Nanoscale phenomena of relevance include rudimentary steps such as charge transfer, molecular rearrangement, and chemical reactions, to deformation mechanisms via interaction with dislocations. Contributions are solicited in but not limited to top-down or bottom-up development of new nano-sheet materials, and the methods to characterize, manipulate, and assemble them, which enable the development of potent nanotechnologies. Please **click here to submit your manuscript**.

Guest Editor

Dr. Muralidharan Paramsothy
Consultant, NanoWorld Innovations (NWI), 1 Jalan Mawar, Singapore 368931, Singapore

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Nanomaterials
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
nanomaterials@mdpi.com

mdpi.com/journal/nanomaterials

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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. We are proud of our increasing impact factor and ability to provide rapid decisions to authors.

Editor-in-Chief

Prof. Dr. Eugenia Valsami-Jones
School of Geography, Earth and Environmental Science, University of Birmingham, Birmingham B15 2TT, UK

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