Special Issue

Nanoribbons

Message from the Guest Editor

In recent years, nanoribbons have attracted increasing interest for their peculiar electrical and thermal properties. For instance, graphene nanoribbons exhibit an electrical conductivity much larger than that of graphene itself, and a thermal conductivity that can be modulated at will by engineering their shape. As another example, nanoribbons made of ultrathin alkali titanates provide superior performance when employed as electrodes in ion batteries. On the one hand, those discoveries have stimulated further studies on the electron and phonon behavior at the nanoscale, on the other hand they pave the way to technological achievements that span from sub-micrometric electronic devices to next-generation energy storing systems. This Special Issue of *Nanomaterials* is aimed at describing the recent advances in nanoribbon chemistry, physics, and technology, from the growth techniques to the experimental and theoretical investigations of their intriguing electronic properties.

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Deadline for manuscript submissions

closed (15 December 2019)

Nanomaterials

an Open Access Journal by MDPI

Impact Factor 4.3
CiteScore 9.2
Indexed in PubMed

mdpi.com/si/23728

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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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