



Novel Synthesis Strategies and Phenomena in Low-Dimensional Structures Like Nanowires and Thin Films

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Deadline for manuscript
submissions:

closed (15 May 2020)

Message from the Guest Editor

Dear Colleagues,

This Special Issue will cover topics highlighting advancements in low-dimensional material synthesis and characterization. The nanostructures could be one-dimensional structures like nanotubes/nanowires or atomically thin films of metal-dichalcogenides. Novel phenomena could include electronic effects like Coulomb blockade, single-electron tunneling or promising linear/non-linear optical and phonon-related effects. This Special Issue welcomes all submissions from studies dealing with novel synthesis and characterization strategies of 1D nanostructures, including heterostructures and nanocomposites. Research on the design of nanoscale devices based on new principles related to size effects are strongly encouraged.





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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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