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Growth and Characterization in Nanowires

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Nanowires, as an innovative one-dimensional (1D) nanostructure, have recently attracted great interest in a wide range of technological applications from photovoltaics, thermoelectrics, electronics, and optics to electrochemical energy storage and conversion devices due to their peculiar physical, morphological, mechanical. and structural properties. At present, a great variety of nanowire-based materials, such as polymers, oxides, nitrides, metals or semiconductors, among others, were achieved by means of numerous experimental procedures. In this direction, a large spectrum of synthesis techniques and theoretical models has allowed us to understand and unveil the enormous potential of nanowires in terms of their performances. However, in spite of the tremendous efforts conducted in the last decade in this domain, important technical challenges regarding the synthesis of novel materials and the comprehension of their performances are critical to accomplish the new perspectives of nanowires in the near future.

Dr. David Aradilla
Guest Editor

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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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