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Semiconductor Nanowires: Fabrication, Characterization, and Applications

Guest Editors:

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Message from the Guest Editors

Semiconductor nanowires are designed materials showing one or more functionalities that can be significantly changed in a controlled fashion by external stimuli, such as stress, moisture, electric or magnetic fields, light, temperature, pH, or chemical compounds. dimensional nanomaterials are materials with typical size features in the lower nanometer size range and characteristic mesoscopic properties. These properties make them attractive objects of fundamental research and potential new applications. The scope of Special Issues includes but not limited to: (1) semiconductor nanowires; (2) 1D nanomaterials; (3) methodologies which include the synthesis of semiconductor nanowires, characterization of mesoscopic properties, and modeling computation of semiconductor nanowires (or 1D nanomaterials) or mesoscopic effects; (4) applications of semiconductor 1D nanomaterials









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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, 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, metalorganic 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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