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Semiconductor nanowires attracted great interests in recent years because of their potential applications in many fields, including electronics, optoelectronics, sensors, catalysts, etc. The field expands very fast and great developments have been obtained during the past several years. Recent exciting progresses such as nanowires for renewable energy applications, and high performance nanowire sensors suggest that there are still a lot of areas which need to be exploited.

This special issue is focused entirely on recent development in all topics related to nanowires. We will accept both experimental and theoretical works. We invite submission of original research articles/communications and comprehensive review papers to this special issue on the following related topics: the synthesis of semiconductor nanowires and nanotubes, fundamental studies, and their diverse applications. The topics to be covered in this special issue include, but are not limited to:

- Synthesis, characterizations and mechanism understanding of semiconductor nanowires
- Nanofabrication and processing of semiconductor nanowires
- Structure analysis at atomic, molecular, and nanometer range
- Applications in LEDs, displays, solar cells, batteries, photocatalysts, etc.
- Electronic and optoelectronic devices based on nanowires
- Assembly and integration of semiconductor nanowires

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