



## Semiconductor Nanowire Devices and Applications

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Deadline for manuscript  
submissions:

**closed (31 March 2022)**

### Message from the Guest Editors

Dear Colleagues,

This special issue of *Materials* focuses on semiconductor nanowires, hosting a manuscripts collection on different aspects of nanowire physics and technology.

The unique properties of nanowires, including large aspect ratio and surface area, strain relaxation allowing for uncharted material combinations, crystal phase engineering and facile quantum confinement, make these nanomaterials of rising interests for applications.

Semiconductor nanowires bear in fact enormous potential as building blocks for next generation devices in different fields including electronics, optoelectronics, energy harvesting and sensing at the nanoscale.

Nanowire researchers are invited to contribute with original research paper as well as review-style articles on technological and scientific aspects - both experimental and theoretical - of semiconductor nanowires.

Main topics include:

nanowire synthesis and growth modeling;  
advanced microscopies/spectroscopies;  
study of structure-properties relation;

phonon engineering;  
electronic and optoelectronic devices;

gated devices based on nanowires;

transport phenomena;  
sensing and chem-FETs.





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## Message from the Editor-in-Chief

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