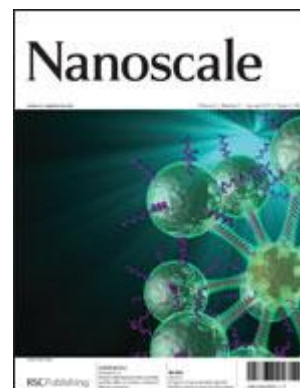


## Theme Issue on “Recent Advances in Semiconductor Nanowires Research”



### I. Scope of the Theme Issue

*Nanoscale* is delighted to be collaborating with the International Conference on Materials for Advanced Technologies (ICMAT 2011) and will be publishing a collection of papers resulting from the high-quality research presented at the conference (symposium I) on ‘Recent Advances in Semiconductor Nanowires Research’. The scope covers progress in the growth, assembly, fundamental properties and applications of semiconducting NWs. Special emphasis will be given to methods to add functionality, such as modulated (radial and axial) heterostructures, hybrid NWs, NW surface engineering and heterogeneous nanowire-nanoparticle, nanowire-nanocrystal complex. Functional applications include chemical and biosensing, high-mobility transistors, light-emitting diodes, solar cells, and batteries where the semiconducting properties play a role. Specifically,

- Nanowire growth control and mechanism
- Heterostructure nanowires
- Heterogeneous nanowire-nanoparticle, nanowire-nanocrystal complex
- Novel characterization techniques
- Electronic, optical and mechanical properties
- Nanowire-based electronic, photonic and optoelectronic devices
- Nanowires for energy applications
- Nanowires for sensing applications

### II. Co-editors

- Hongjin FAN, *Nanyang Technological University, Singapore*
- Qihua XIONG, *Nanyang Technological University, Singapore*

### III. Manuscript Submission

Please submit via *Nanoscale* online submission service at [www.rsc.org/nanoscale](http://www.rsc.org/nanoscale), indicating that your paper is from this ICMAT 2011. All articles will be handled by the Editors-in-Chief who are professional researchers and subject to rigorous peer-review according to the journal’s usual standards. Contributing authors will be provided with hardcopies of the theme issue.

**Deadline for submissions: 1<sup>st</sup> July 2011**  
**Expected date of publication: End of 2011**

### IV. About *Nanoscale*

Since its launch in late 2009, *Nanoscale* has quickly established itself as a platform for high-quality community-spanning research which bridges the various disciplines involved with nanoscience and nanotechnology.

*Nanoscale* is fully-indexed in ISI, MEDLINE and all other leading databases and will get its first impact factor in June 2011. Like all RSC Publishing journals, *Nanoscale* is published on a not-for-profit basis.

For more details about the journal and to read the latest issue, please visit [www.rsc.org/nanoscale](http://www.rsc.org/nanoscale).