

Call for Papers

Focus Issue

Semiconductor Nanowires

Guest Editors

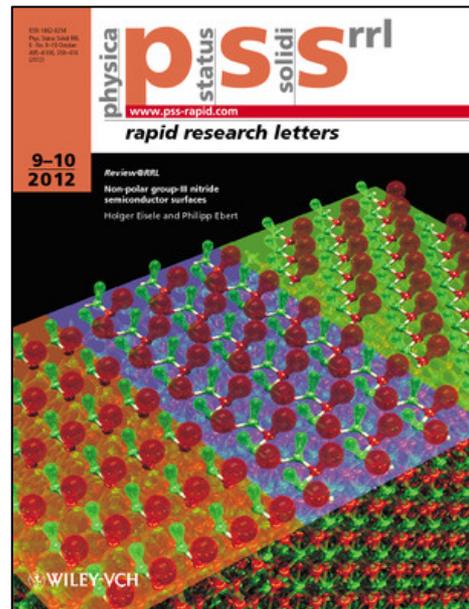
Chennupati Jagadish

Lutz Geelhaar

Silvija Gradecak

Open for submissions immediately

Deadline: May 31, 2013



Dear Colleague,

Due to your active research in the field we cordially invite you to submit a manuscript to our forthcoming Focus Issue on *Semiconductor Nanowires*. It will be published in *physica status solidi – Rapid Research Letters*, i.e. *pss* (RRL). Semiconductor nanowires are considered as building blocks for the next generation of electronics, photonics, energy, sensors and biomedical applications. One-dimensional nanowire structures offer unique opportunities to control properties of semiconductors such as density of states, transport of electrons and interaction with photons. Another important feature of nanowires is to enable growth of heterostructures of materials with large lattice and thermal mismatch without creating dislocations. This provides an unprecedented flexibility to create a broad range of structures with a combination of materials for a variety of applications. Nanowires may lead to the integration of microelectronic devices on silicon with optoelectronic and photonic devices based on compound semiconductors.

Topics covered in the Focus Issue include (but are not limited to):

- group IV, II–VI, III–V semiconductors, nitrides, oxides, chalcopyrites, chalcogenides and other electronic as well as optical materials
- growth, synthesis, fabrication, patterning and assembly
- control of size, crystal structure, geometry, shape, position, composition, doping, and heterostructures (axial and radial)
- electronic, optical, and optoelectronic properties
- theory, modeling and simulations
- transistors, sensors, lasers, LEDs, detectors, solar cells, waveguides, optical switches, non-linear optical devices and others
- electronics, photonics, plasmonics, energy and sensor applications
- hybrid organic and inorganic nanowire structures

You may either submit your latest results as a letter or, after confirmation by the editors, write a short overview/review article, for details see below.

We hope to spark your interest, and look forward to receiving your manuscript soon.
For questions please do not hesitate to contact us.

Best regards, the Guest Editors

Chennupati Jagadish, Australian National University, Canberra, *pss* Editorial Advisory Board Member

Lutz Geelhaar, Paul-Drude-Institut für Festkörperelektronik, Berlin

Silvija Gradecak, Massachusetts Institute of Technology, Cambridge, MA

Important: Please tick one of the following options and reply to pss.rapid@wiley-vch.de by March 31, 2013:

- Yes, I will submit a Letter (maximum length: 3000 words and 4 figures/tables, typically 4 journal pages)
- Yes, I will submit a short overview/review (Review@RRL)
- No, thanks, I am currently not interested

About the Journal

The journal *physica status solidi – Rapid Research Letters* is the fastest, double peer-reviewed journal in solid state physics. Median publication times are 17 days from submission to first editorial decision, and 6 days from acceptance to online publication.

Peer review and publication occur on individual article basis. Once published, your article is citable immediately, hence there is no waiting for the remainder of the Focus Issue contributions. At the time that all articles of the Focus Issue are accepted, we will assign them to a specific monthly issue of pss (RRL), i.e. the Focus Issue. Such a clustering of related articles will raise the visibility of these articles tremendously. In addition, we will provide the articles with free access within a given time period.

In general, articles in *physica status solidi* benefit from high visibility, as pss is one of the largest publication platforms in solid state physics with 2000 articles and approaching one million full-text downloads per year.

Editorial handling includes Editorial Office and typesetting service, listing on major citation databases (ISI WoS, SCOPUS etc.), content promotion (graphical Table of contents, cover pictures, newsletters, news items on Wiley's online portal Materials Views <http://bestofpss.materialsviews.com>, etc.)

Article Format

Regular Rapid Research Letter

Letters aim at original work with a demand for express publication due to its novelty and significance. Rapid yet thorough double peer review combined with speedy post-acceptance handling allow for very short median publication times: 17 days from submission to first editorial decision, and 6 days from acceptance to online publication. From 2013, page limits will be increased to a maximum length of 3000 words and 4 figures/tables (typically 4 journal pages).

Review@RRL

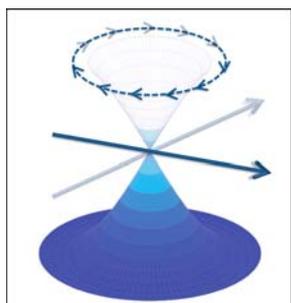
This *short overview/review* category shall present a snapshot of the state of the art of a very hot topic at the forefront of research for a readership with solid state, materials, and applied physics background.

A Review@RRL is supposed to succinctly summarize selected and very recent important findings, to give an orientation towards ongoing and highly promising developments as well as open questions, and to present an outlook to future trends. Please make sure to put your work into perspective with the literature by discussing results that were achieved by other research groups, too, and by presenting some of their key figures etc., all together on a length scale of as short as 6 up to 15 journal pages maximum. The rapid and double peer-reviewed publication ensures fastest possible dissemination, as these articles target at very dynamic fields. Publication includes author CV and photo if desired.

For a list of Reviews@RRL published since its start in 2011 click [here](#).

Author Guidelines

- Please compile your manuscript in double-column format. Word or LaTeX templates are available at <http://www.pss-rapid.com>.
- Register and submit to pss (RRL) at <http://www.manuscriptXpress.com/osm>. Please mention the Focus Issue in the cover letter.
- The submission is open immediately. It will close on May 31, 2013.
- The content for Letters must be original, i.e. not published or under consideration elsewhere.
- Focus Issue submissions will be handled with pss (RRL) priority by experienced Editorial Office staff. Each accepted Letter will be published online immediately in EarlyView ahead of the complete Focus Issue.
- There are no submission fees or page charges.



Previous Focus Issue [Topological Insulators - From Materials Design to Reality](#)
Eds.: Claudia Felser, Shoucheng Zhang, Binghai Yan

[List of all Focus Issues in pss \(RRL\)](#)