

# Call for Papers

Focus Issue

## Functional Oxides

Guest Editors

**Thomas Frauenheim**

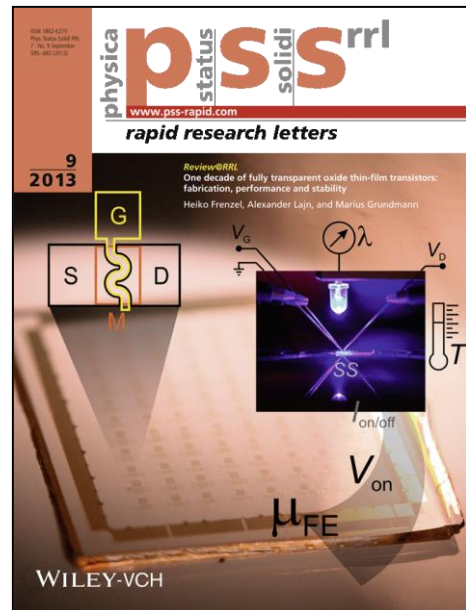
**Jan M. Knaup**

**Peter Broqvist**

**Shriram Ramanathan**

Open for submissions immediately

Deadline: January 10, 2014



Dear Colleague,

Due to your active and outstanding research in the field we cordially invite you to submit a manuscript to our forthcoming Focus Issue on *Functional Oxides*. It will be published in *physica status solidi – Rapid Research Letters*, i.e. *pss (RRL)*.

At the current state of the art functional oxides offer exciting new possibilities for emerging technologies and possible applications in a wide variety of fields. The upcoming focus issue will concentrate on effects related to ionic motions and defect dynamics, and applications with the potential to lead to technological revolutions.

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

- Properties of oxide point defects, ionic motions and dynamics
- Redox reactions and related phase transitions
- Applications and devices such as, for example
  - oxide catalysts
  - memristors, resistive switching memories, neuromorphic electronics
  - ferroelectrics, multiferroics, spintronics, ferromagnetism
- Fundamental properties of functional oxides, e.g. structure, electronic properties, surfaces and interfaces
- Fabrication and characterization of oxide materials and structures
- Computational advances in modeling functional oxides

You are invited to 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 have sparked your interest, and look forward to receiving your manuscript soon.

For questions please do not hesitate to contact us.

Best regards, the Guest Editors

Thomas Frauenheim and Jan M. Knaup, BCCMS, Universität Bremen

Peter Broqvist, Angström Laboratory, Uppsala University

Shriram Ramanathan, School of Engineering and applied Sciences, Harvard University

**Important:** Please tick one of the following options and reply to [pss.rapid@wiley-vch.de](mailto:pss.rapid@wiley-vch.de) by October 31, 2013:

Yes, I will submit a Letter (maximum length: 3000 words and 4 figures/tables, typically 4 journal pages)

Yes, I intend to submit a short overview/review (Review@RRL) and provide details below

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. Page limits comprise 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, optionally in double-column format using our Word or LaTeX templates available at <http://www.pss-rapid.com>.
- Register and submit to pss (RRL) at <http://www.editorialmanager.com/pssrri-journal>. During online submission please select the appropriate section/category **Focus Issue on Functional Oxides** and mention the Focus Issue in the cover letter.
- The submission is open immediately. It will close on **January 10, 2014**.
- 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 Issues:

### [Topological Insulators - From Materials Design to Reality](#)

Eds.: Claudia Felser, Shoucheng Zhang, Binghai Yan

### [Semiconducting Nanowires](#)

Eds.: Chennupati Jagadish, Lutz Geelhaar, Silviya Gradecak

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