

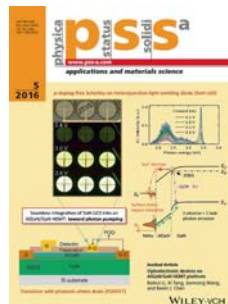
## Highlights – Special Issues



### Carbonics – integrating electronics, photonics and spintronics with graphene quantum dots

Guest Editors: Pawel Hawrylak, François Peeters, and Klaus Ensslin

Phys. Status Solidi RRL  
10, No. 1 (2016),  
DOI 10.1002/pssr.2016.v10.1



### Nitride Semiconductors

Guest Editors: Guoyi Zhang, Tongjun Yu, Ning Tang, Xuelin Yang, and Shunfeng Li

Phys. Status Solidi A  
213, No. 5 (2016),  
DOI 10.1002/pssa.2016.v213.5



### Non-volatile memories: Materials, nanostructures and integration approaches

Guest Editors: Judit G. Lisoni, Damien Deleruyelle, Ludovic Goux, Massimo Longo, and Dafiné Ravelosona

Phys. Status Solidi A  
213, No. 2 (2016),  
DOI 10.1002/pssa.2016.v213.2



### Amorphous and Nanocrystalline Semiconductors

Guest Editors: Rui N. Pereira, Urs Aeberhard, and Thomas Kirchartz

Phys. Status Solidi A  
213, No. 7 (2016),  
DOI 10.1002/pssa.2016.v213.7



### Nanostructured Thermoelectrics

Guest Editors: Heiko Reith and Kornelius Nielsch

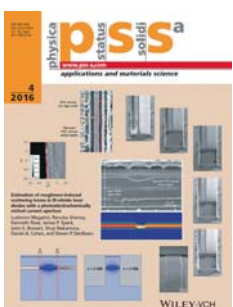
Phys. Status Solidi A  
213, No. 3 (2016),  
DOI 10.1002/pssa.2016.v213.3



### Novel Aspects of Diamond

Guest Editors: Nianjun Yang and Philippe Bergonzo

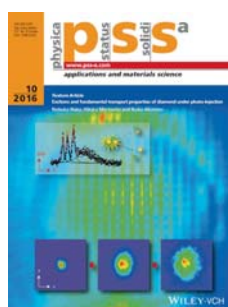
Phys. Status Solidi A  
213, No. 8 (2016),  
DOI 10.1002/pssa.2016.v213.8



### Compound Semiconductors

Guest Editors: Tomás Palacios, Elison Matioli, Roberto Myers, Siddharth Rajan, and Han Wang

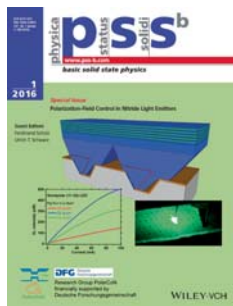
Phys. Status Solidi A  
213, No. 4 (2016),  
DOI 10.1002/pssa.2016.v213.4



### Recent Advances in Diamond Science and Technology

Guest Editors: Shannon S. Nicley, Miloš Nesládek, and Paulius Pobodinskas

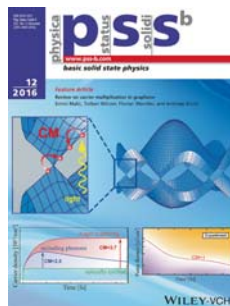
Phys. Status Solidi A  
213, No. 10 (2016),  
DOI 10.1002/pssa.2016.v213.10



### Polarization-Field Control in Nitride Light Emitters

Guest Editors:  
Ferdinand Scholz and  
Ulrich Schwarz

Phys. Status Solidi B  
**253**, No. 1 (2016),  
DOI 10.1002/pssb.2016.v253.1



### Electronic Properties of Novel Materials: Molecular Nanostructures

Guest Editors:  
Christian Thomsen,  
Andreas Hirsch, Hans Kuzmany,  
Janina Maultzsch,  
Stephanie Reich, Siegmund Roth,  
and Antonio Setaro

Phys. Status Solidi B  
**253**, No. 12 (2016),  
DOI 10.1002/pssb.2016.v253.12



### Auxetics and other systems of “negative” characteristics

Guest Editors:  
Krzysztof W. Wojciechowski,  
Fabrizio Scarpa,  
Joseph N. Grima,  
and Andrew Alderson

Phys. Status Solidi B  
**253**, No. 7 (2016),  
DOI 10.1002/pssb.2016.v253.7

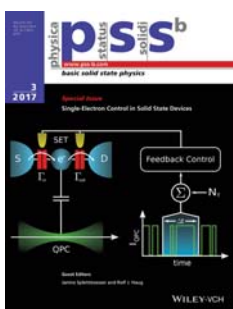


### High-temperature superconductivity in iron-based compounds

Guest Editors:  
Bernd Büchner,  
Rudi Hackl, and  
Dirk Johrendt

Phys. Status Solidi B  
**254**, No. 1 (2017),  
DOI 10.1002/pssb.2017.v254.1

#### Coming soon:



### Single-Electron Control in Solid-State Devices

Guest Editors: Janine Splettstoesser and Rolf J. Haug

Phys. Status Solidi B **254**, No. 3 (2017), DOI 10.1002/pssb.2017.v254.3

Our skill to release and manipulate charge in solids has advanced to the level of single electrons, offering exciting opportunities both for advanced understanding of their physics and novel device concepts at small scales. The research activity induced by these prospects throughout the solid state community was reflected in a lively Focus Session “Single-particle sources in electronic devices” at the DPG spring meeting 2016 in Regensburg. In order to further showcase current achievements, this Special Issue focussing on single-particle control in solid-state devices was assembled.



### Antiferromagnetic Spintronics

Guest Editors: Jairo Sinova, Tomas Jungwirth, and Olena Gomonay

Phys. Status Solidi RRL **11**, Spring 2017, <http://goo.gl/9Av6K8>

The emerging field of antiferromagnetic spintronics focuses on making antiferromagnets active elements of spintronic devices. From an application point of view, it emphasizes how to read, manipulate, and store information in these systems robustly. From the basic science point of view, it exploits the larger range of spin physics in this material due to the higher complexity of the ordered phase and order parameters. This Focus Issue aims to summarize recent progress in the rapidly developing field of antiferromagnetic spintronics and more importantly to present future perspectives.

