

# Sándor Bordács

## Curriculum vitae

Assistant Professor

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### Education

- 2007-2011 Ph.D. student, Budapest University of Technology and Economics  
(Ph.D. thesis: "Exotic magneto-optical effects in solids")
- 2002-2007 Diploma of Physics (MS), Budapest University of Technology and Economics  
(M.Sc. thesis: "Gigantic magneto-optical activity in chromium spinels")

### Employments

- 2014- Budapest University of Technology and Economics, Department of Physics,  
assistant professor
- 2012-2014 The University of Tokyo, Department of Applied Physics, QPEC,  
research assistant
- 2010-2014 Budapest University of Technology and Economics, Department of Physics,  
scientific co-worker

### Research visits

- 2014 Laboratoire National des Champs Magnétiques Intenses, Grenoble, France (2 weeks)
- 2011 National Institute of Chemical Physics and Biophysics, Tallinn, Estonia (4 weeks)
- 2010 University of Augsburg, Experimental Physics II., Augsburg, Germany (2 weeks)
- 2009-2010 The University of Tokyo, Department of Applied Physics, Tokyo, Japan (3 months)
- 2009 University of Augsburg, Experimental Physics II., Augsburg, Germany (2 weeks)
- 2008 University of Augsburg, Experimental Physics II., Augsburg, Germany (3 weeks)
- 2008 The University of Tokyo, Department of Applied Physics, Tokyo, Japan (2.5 months)
- 2007 The University of Tokyo, Department of Applied Physics, Tokyo, Japan (1.5 months)

### Research interest

Optical and magneto-optical spectroscopy in solids, THz spectroscopy

### Bibliometric data

Number of publications (peer reviewed): 22, Number of independent citations: >186, Cumulative impact factor: >105

Out of the 22 publications most of them appeared in high impact journals of the field: 1 in Nature Physics, 1 in Nature Communications, 7 in PRL, 6 in PRB, 1 in Scientific Reports.

### **Teaching Experiences**

Introductory laboratory course (1st-year physics students)

Experimental physics laboratory II.-III. (2nd-year physics students)

Condensed matter physics laboratory (4th-year physics students)

Condensed matter physics exercises (3rd-year physics students)

Co-supervised 3 “TDK” works (research program for undergraduate students): Dániel Varjas, Vilmos Kocsis, Dávid Szaller

### **Awards**

2014 Junior Prima prize in Science

2014 Bólyai Postdoctoral Fellowship

2010-2011 Scholarship of the “ProProgressio” Foundation

2007 1<sup>st</sup> place on the National Scientific Students Associations Conference

2006 Scholarship of the Hungarian Republic

2005 3<sup>rd</sup> place on the National Scientific Students Associations Conference

2004-2006 BUTE University Scholarship

2004-2006 „Excellent Student of the Faculty” award

### **Founds**

2014-2017 OTKA PD 111756: “Optical study of new materials for information technology”,  
70 kEUR