

## Sándor Bordács

### Curriculum vitae

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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 interest

Multiferroics, magnetic skyrmions, TD-THz spectroscopy, optical and magneto-optical spectroscopy of solids

### Research visits

- Institute Laue-Langevin, Grenoble, France (2015-, 3 weeks in total)
- Paul Scherrer Institute, Villigen, Switzerland (2014-, 1 month in total)
- Laboratoire National des Champs Magnétiques Intenses, Grenoble, France (2014-, 2 months in total)
- National Institute of Chemical Physics and Biophysics, Tallinn, Estonia (2011-, 1.5 month in total)
- University of Augsburg, Augsburg, Germany (2008-, 2 months in total)
- The University of Tokyo, Tokyo, Japan (2007-, 7 months in total)

### Bibliometric data

Number of publications: 40 (among them 1 Nature Materials, 1 Nature Physics, 1 Nature Communications, 9 Physical Review Letters), Number of independent citations: >478

Complete list of publications: <https://vm.mtmt.hu/search/slist.php?AuthorID=10042008>

### Fellowships and awards

- 2018 Young Scientist Award of the Hungarian Academy of Sciences
- 2017-2020 Premium Postdoctoral Program of the Hungarian Academy of Sciences
- 2016 Budo Agoston Award of the Hungarian Physical Society
- 2014 Junior Prima prize (Hungarian Development Bank)
- 2014-2017 Bolyai Janos Research Fellowship (Hungarian Academy of Sciences)

### Teaching activity

- 2017- Optical spectroscopy in material science (BME, MSc physics)
- 2014- Introduction to physics laboratory (BME, BSc 1st year in physics)
- 2014 Physics laboratory III (BME, BSc 2nd year in physics)
- 2011 Physics laboratory II (BME, 2nd year in physics-engineers)
- 2007 - 2010 Condensed matter physics laboratory (BME, 4th year in physics-engineers)
- 2008 - 2009 Solid-state physics practice (BME, 3rd year in physics-engineers)

### Supervision

PhD: Dániel Gergely Farkas (in progress), Jakub Vít (in progress, joint program with Dr. Stanislav Kamba)

MSc: Dániel Gergely Farkas (2016)

TDK (research project for undergraduate students): Dániel Gergely Farkas (Faculty TDK 1. prize) - supervisor, Dániel Varjas (National TDK 1. prize), Vilmos Kocsis (Faculty TDK 1. prize), Dávid Szaller (National TDK 1. prize) - co-supervisor