

Curriculum vitae of Mgr. **Filip Kadlec**, Dr.

Born: 1971, Prague
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Education

1988–1994 Faculty of Mathematics and Physics, Charles University, Prague; Condensed Matter
1993–1997 PhD. studies at Charles University, Prague and University of Orléans, France
1997 post-doc stay at Center for High-temperature Physics, CNRS Orléans
1997–2000 researcher at the Masaryk University Brno, Faculty of Science
since 1999 researcher in the terahertz spectroscopy group, Institute of Physics, Prague

Longer scientific stays:

2003, 2005 visiting professor at the University of Savoy, France

Awards:

2005 Otto Wichterle award
2006 Award of the Academy of Sciences of the Czech Republic for young researchers

Overall expertise:

Experimental studies of condensed matter (ferroelectric crystals, superionic conductors, polar solutions, semiconductors, microwave ceramics, phase-change materials) by means of infrared spectroscopy, Raman spectroscopy, neutron scattering, spectroscopic ellipsometry, time-domain terahertz (THz) spectroscopy. Tunable structures and materials for the THz range. Near-field THz imaging. Generation of THz radiation in metals. THz spectroscopy of magnetically active materials.

Recent and current activities:

Member of the Laboratory of THz spectroscopy at FZU. Design, setting up, operating and developing of custom-made setup for THz spectroscopy, in particular in magnetic fields, based on Oxford Instruments Optistat cryostat with superconducting coil. This apparatus is used for experimental studies of multiferroics, semiconductors and superconductors.

Author and co-author of 94 **scientific publications** in impacted peer-reviewed journals, and of one book chapter. More than 2200 citations without self-citations, h-index 29 (32) according to Web of Science (Google Scholar). Since 2005, principal investigator of four projects funded by Czech grant agencies. Supervisor of two PhD. theses, both successfully accomplished.