

Curriculum Vitae

PERSONAL INFORMATION

Family name, First name: **Kalbáčová Vejpravová, Jana**

(maiden name: Vejpravová, previous: Poltierová Vejpravová)

Born 3rd August 1980 in Vlašim, Nationality: Czech

DEGREES

2015 'habilitation' in condensed matter physics, Charles University (CU)

2003 - 2007 **Ph.D.** in condensed matter physics, Faculty of Mathematics and Physics, CU

1998 - 2003 **Mgr.** (equiv. MSc.) in chemistry (with honours), Faculty of Science, CU

CURRENT POSITION(S)

2017 – **Senior scientist**, Department of Condensed Matter Physics (DCMP), CU

part-time:

2017 – Senior scientist, Department of Magnetic Nanosystems (MNS), Institute of Physics (IP), Czech Academy of Sciences (CAS)

2015 – **Associate professor**, Department of Inorganic Chemistry (DIC), CU

PREVIOUS POSITIONS

2013 – 2016 Head of Department of MNS, IP CAS

2011 – 2012 Senior scientists, Department of Functional Materials, IP CAS

2008 – 2010 Assistant professor, Faculty of Mathematics and Physics, DCMP CU

2000 – 2007 Junior researcher & lecturer, Faculty of Mathematics and Physics, DCMP CU

part time:

2011 – 2015 Researcher & lecturer, DIC CU

CAREER BREAKS

16th October 2013 – 29th December 2015: maternal leave

FELLOWSHIPS AND STAYS ABROAD

2012 Visiting scientist, Massachusetts Institute of Technology

2010 Research fellow, Institute for Materials Research, University Hasselt

2010 Research fellow, Quantum Beam Center, National Institute for Materials Research, Tsukuba

2005 Visiting scientist, Instytut Niskich Temperatur i Badań Strukturalnych, Wrocław

2002 Visiting junior scientist, Toyama Prefectural University

2000 – 2016 Frequent 2 – 8 week stays in large facilities (Helmholtz Zentrum Berlin, Institute Laue Langevin Grenoble, ANKA Karlsruhe, High-field laboratory Dresden, ELETTRA Trieste)

SUPERVISION OF STUDENTS, TEACHING ACTIVITIES

From 2002 lectures and practical courses in *Condensed matter physics, Magnetism, Nanomaterials, Magnetochemistry* (up to 180 hours/year) in CU; supervision of bachelor, master and doctoral theses:

2011 – 2016 IP CAS: 3 Ph.D. students (all defended), 4 postdoctoral fellows

2000 – 2010 DCMP, CU: 2 Ph.D. students, 5 diploma students, 5 bachelors (all defended)

2011 – 2016 DIC, CU: 1 Ph.D. student, 2 diploma students, 2 bachelors (all defended)

Currently: DCMP, CU: 1 Ph.D. student, 3 postdoctoral fellows

PUBLICATION RECORD

Research ID: G-1895-2014, ORCID ID: 0000-0002-6308-9992

1 book chapter, **140** papers with IF, other 32 in journals and proceedings and indexed in SCOPUS

Senior/corresponding author: 50

WOS records: 151, cited 840/731 times all/excluding auto citations, h-index 14

RECOGNITION

- 2003 **J. Heyrovsky Award**
 2004 **M. Odehnal Award** by the Union of Czech Mathematicians and Physicists
 2007 **Annual Award of the B. Bolzano foundation** in Physics
 2008 **Award of the Minister of Education, Youth and Sports** for extraordinary achievements in condensed matter physics and materials research
 2010 **Scopus/Elsevier Award** for results of major significance
 2014 **Otto Wichterle Award** for exceptionally outstanding young scientists at the Czech Academy of Sciences
 2015 **Representative of the Czech Academy of Sciences** in large medial campaign ‘Personalities’ in occasion of its **125th anniversary**

GRANTED PROJECTS (14)

TOTAL BUDGET ~ 2.300.000 EUR, the most important underlined

Abbreviations: GA UK – Grant Agency of Charles University, CSF – Czech Science Foundation, MEYS – Ministry of Education, Youths and Sports, 7FP – 7th framework program of the EU

PI (7):

1. ERC Starting Grant (2017 – 2022): Trans-spin Nanoarchitectures: from birth to functionalities in magnetic field (TSuNAMI), **2. Vakuum Praha (2002): Electrotransport treatment of metals in UHV**, **3. GA CU (2006 – 2008): Comparative study of transition metals and their nanoequivalents**, **4. CSF (2008 - 2010): Nanodimensional order in transition metals and their compounds**, **5. CSF (2010 – 2014): Multifunctional nanoparticles: advanced preparation methods and investigation of their physical properties**, **6. MEYS (2011): Advancement of interdisciplinary education in physics and chemistry of nanomaterials**, **7. MEYS (2011 – 2015): Multifunctional Nanotechnology for selective detection and Treatment of cancer**.

Co-applicant (3):

1. 7FP, theme NMP-2010-4.0-1 (2011 – 2015): Multifunctional Nanotechnology for selective detection and Treatment of cancer (MULTIFUN), **2. CSF (2010 – 2014): Magnetism of carbon nanostructures in the pure and doped state**, **3. CSF (2015 – 2017): Nanocomposite systems of plasmonic/magnetic nanoparticles-graphene-aromatic molecules for enhanced Raman scattering processes**.

Supervisor of student projects (4):

1. GA CU (2010 – 2012): Potential oxide - diluted magnetic semiconductor nanostructures, **2. GA CU (2013 – 2014) Study of graphene-nanoparticle based systems**, **3. Vakuum Praha (2007): Super-purified transitional metals and their nanostructures**, **4. Vakuum Praha (2012): Study of composite layers of nanocrystalline diamond and magnetic nanoparticles**.

COMMISSIONS OF TRUST, MEMBERSHIPS OF SCIENTIFIC SOCIETIES

2003– Reviewer in journals, where publishing as main author

2008 – Reviewer of national project applications: Ministry of Youth, Education and Sports, Czech Science Foundation (COST, CONTACT etc.)

2009 – Review panel member, EXPO SCIENCE AMAVET (national scientific competition for high-school students)

2012 – Review panel member, *Magnetism and low temperature laboratories* (large Czech national infrastructure), now: *Materials growth and measurement laboratory* (www.mgml.eu)

2013 – Member of the American Chemical Society, USA; Member of the Union of Czech Mathematicians and Physicists, Czech Republic

2015 – Member of the Committee for master and doctoral state exams (Inorganic Chemistry) CU; Reviewer of foreign project applications: Slovak Research and Development Agency and Slovak Academy of Sciences

2016 – Member of the council of the Ph.D. study program: Physics of Nanostructures (F13), Faculty of Mathematics and Physics, CU