Curriculum Vitae

Personal details	Ing. Jan Vlček, Ph.D.
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	ORCID 0000-0001-5292-8044
	Gender: male Nationality: Czech

Education	2009 - 2014 PhD study, Field of Study: Chemical and Process Engineering, University of Chemistry and Technology in Prague, Thesis: Study of Nanostructured Diamond Films
	2007 - 2009 Masters study, Field of Study: Engineering Informatics and Process Control, University of Chemistry and Technology in Prague, Thesis: Preparation of Thin Films by Pulsed Laser Deposition
	2004 - 2007 Bachelor study, Field of Study: Process Engineering, Informatics and Management, University of Chemistry and Technology in Prague, Thesis: Discovering of Gases and Vapors by Electronic Nose

Further training	06/2016 - research stay at Karlsruhe Institute of Technology (KIT), Institute of Nanotechnology, Germany, "Preparation and characterization of specific (n,m) SWCNTs for nano-carbon based electronics and opto-electronic applications "
	06/2017 - research stay at Weizmann Institute (WIS), Rehovot, Israel, research group of prof. Daniel H. Wagner

Work experience	2014 - Nowadays – Research Scientist, Institute of Physics AS CR
	2014 - Nowadays - Assistant Professor, Department of Physics and
	Measurements, University of Chemistry and Technology
	2013 - 2014 - Research Assistant, Department of Physics and Measurements,
	University of Chemistry and Technology
	2009 - 2014 - Doctoral Student, Institute of Physics AS CR

Research	Experience with design and construction of high vacuum and ultra-high
activities in last	vacuum deposition systems for thin films deposition by pulsed laser
5 vears	deposition, PVD and CVD.
- ,	Deposition techniques for thin films (PE CVD, MW PE CVD, PLD, sputtering,
	PVD). Vacuum technology. Expert experience in gas sensing by chemical
	conductivity sensors. Experience with diagnostic techniques: SEM, EDX, TEM,
	XRD, XPS, XRF, Raman Spectroscopy. Diagnostics of plasma by optical
	emission spectroscopy. Electrotransport and magnetic properties
	measurement by PPMS.
	Research in the field of organic thin film-based semiconductor for
	photovoltaic and optoelectronic applications. Nanocomposite thin films
	containing nanocarbons for electronics.
	Research in the safety field of solid-state gas sensors for detection of
	chemical warfare agents, taggants of explosives and harmful gases.

Projects	2023 – 2025 - Project GAČR (23-05878S) "Thin films of transition metal
(last 5 years)	complexes with vacant positions in the ligand field for gas sensing
	application"
	Principal Investigator
	2019 – 2021 - Project GAČR (19-02804S) "Nanostrukturované
	heteropřechody pro chemirezistory"
	member of research team
	2017 – 2021 - Project GAČR (17-19910Y) "Mn based Heusler alloys for
	spintronics"
	Member of research team
	2018 – 2020 – Project GAČR (18-09347S) "Black metals for utilization in
	quartz crystal microbalance sensors"
	member of research team
	2017 – 2019 - GAČR (17-13427S) "Detection mechanisms on chemiresistors
	with a sensitive layer based on nanostructured oxides"
	member of research team
	2017 – 2020 - Inter-Excelence (Inter-COST LTC 17058) MŠMT "Nano-Carbon
	Composite Materials for Thin Films Gas Sensors and Photovoltaics"
	Principal Investigator
	2016 – 2020 - COST Action CA15107 "Multi-Functional Nano-Carbon
	Composite Materials Network" (MultiComp)
	Member of management committee for Czech Republic

Teaching and	Supervising of students of Bc. (supervisor), MSc. (supervisor) a PhD
supervision	(supervisor, supervisor - specialist) at University of Chemistry and
•	Technology in Prague and Czech Technical University in Prague.
	Teaching in bachelors and masters study programmes - Nano and Micro
	Technology in Chemical Engineering, Sensors and Cybernetics in Chemistry,
	Process Engineering and Management at University of Chemistry and
	Technology in Prague, subject: Optical and Electron Microscopy.

Invited talks at international	UV Laser Modification of Nanodiamond Morphology, MATCON 2011 Oxford, University of Oxford, UK, March 28-31, 2011
conferences	
	Modification of Nanodiamond Seeded Surfaces before nano-crystalline diamond growth by UV-laser treatment, NIST Gaithersburg, MD, USA, December 7, 2010

Prizes and	Preciosa Foundation Award for doctoral students (2012)
awards	
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Conferences	MultiComp Autumn Prague Meeting 2019, September 12–13, 2019, Prague
organization	Conference chairs: Jan Vlček, František Fendrych, Sharali Malik
	http://multicomp.vscht.cz

Bibliography	H-index(WOS): 11
	Number of papers in international journals: 28
	Number of citation (WOS): 318