

# Curriculum Vitae

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Birth:	27/03/1958   Prague, Nationality: Czech
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Language skills:	French B2-C1, English B2-C1, Russian A1-A2

<b>Education, degrees</b>	
1977	Johannes Kepler Grammar School, Praha
1982	Fellowship at the University of Bordeaux (1 year), Doctorate in Solid state chemistry.
1983	Master degree (Ing.), Faculty of Electrical Engineering, Czech Technical University, subject Technical Cybernetics
1988	PhD. (CSc), Institute of Physics ASCR & Institute of Chemical Technology , Pardubice, subject Materials engineering.

<b>Work experience</b>	
1984 - 2020	Senior Researcher, Institute of Physics ASCR v.v.i., Prague, since 2014 Head of the Department of magnetics and superconductors
1993 -1994	Post Doctoral stages at ICMCB (prof. P. Hagenmuller, J.Etourneau), Bordeaux, Université Catholique de Louvain, Institute of Condensed Matter (prof. J.P. Issi)
1999-2000	Visiting professor stay at CRISMAT, CNRS, Caen
2001-2010	Visiting professor stays , L'école des Mines de Nancy (later Institute Jean Lamour - CNRS, Nancy, France

<b>Research activity</b>	<ul style="list-style-type: none"> <li>• Experimental research of magnetic oxides and novel semiconductors</li> <li>• The comprehensive research of new materials, namely magnetic (conducting oxides, covalent semiconductors with narrow band-gap..).</li> <li>• Accent on thermoelectric energy conversion, study and analysis of the phenomena linked with the magnetic response, thermal and electrical transport and magnetotransport</li> <li>• Measurement metrology and instrumentation- goal is to obtain credible magnetic, thermal and electrical data from cryogenic temperatures up to 1000 °C.</li> </ul>
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<b>Awarded grants (recent)</b>	<p>Research of the recuperation and thermoelectric conversion of the waste heat of the combustion engine (2013-2015, The Technology Agency of the Czech Republic), co-investigator (FzU, Sobriety, Skoda Auto) TAČR participation 10 839 kKč</p> <p>Oxide Thermoelectric Materials for High Temperature Waste Heat Recovery (2013-2015, The Czech Science Foundation), investigator, total cost 6638 kKč</p> <p>Effective use of waste heat (2018-2020), OP Prague - Growth Pole of the Czech Republic, investigator, No: CZ.07.1.02/0.0/0.0/16_040/0000384, total cost 9 842 kKč</p> <p>Thermoelectric magnetic sulfides (2017-2020, , The Czech Science Foundation) , investigator , total cost 7535 kKč</p>
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<b>Teaching, pedagogy, membership....</b>	<p>Pedagogy- Lectures on the topic of "Metal Oxides" and "Chemical Aspects of Solids" for master's and PhD degree at CTU, Faculty of Nuclear Sciences and Physical Engineering, Department of Solid State Engineering</p> <p>Supervising- Master degree (1), PhD- co-supervisor (3)</p> <p>Member of The scientific board- CTU, Faculty of Nuclear Sciences and Physical Engineering</p>
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<b>Collaboration with industry</b>	Collaboration: Škoda auto a.s. since 2008 (Volkswagen.), Sobriety s.r.o since 2012, Municipal waste incineration factory –ZEVO Malesice, Prague since 2018 Goal: Increase the efficiency of the combustion engine via the recuperation of the waste heat of the exhaust gas by means of thermoelectric device, use of the waste heat for the electricity generation
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<b>International ties</b>	– Institut Jean Lamour (LPM) – Université de Lorraine, France
	– CRISMAT- Laboratoire CNRS in Caen, France
	– EMPA, Dübendorf, Switzerland
	– Iwate University, Morioka, Japan
	– Institut de Chimie de la Matière Condensée de Bordeaux, France

<b>Publication activity</b>	
200	Impacted peer-review articles
30	Conference, proceeding papers
3	Patents, utility models
4480	Total citations
4100	Citations without self-citations
33,34	H - Index (WOS, SCOPUS)
30, 159	Scientific activity since 2015 : Articles+Conf.papers, Times cited (WOS)

Praha, 23.4.2020