

PERSONAL INFORMATION

Vladimír Šepelák



Affiliations Institute of Nanotechnology, Karlsruhe Institute of Technology (KIT), Hermann-von-Helmholtz-Platz 1, 76344 Eggenstein-Leopoldshafen, Germany
Institute of Geotechnics, Slovak Academy of Sciences, Watsonova 45, 04001 Košice, Slovakia

E-mail vladimir.sepelak@kit.edu

Interests

non-conventional synthesis of nanomaterials; mechanochemistry; high-energy milling; mechanochemistry; nanocrystalline material; nanoglass; metastable material; complex oxide; structural characterization of nanomaterials; disordered nanomaterial; local structure; Mössbauer spectroscopy; solid-state NMR; functional behavior of nanomaterials on a macroscopic scale; the particle size- and shape-dependent functional properties; nanomagnetism; electrochemical properties; thermal stability; correlations between the local structure and macroscopic properties of nanostructured materials

EDUCATION / QUALIFICATION

1981 - 1986

University

Study at the P. J. Šafárik University, Košice, Slovakia; Diploma (RNDr.) in *Solid State Physics* in 06/1986

1991 - 1995

Doctorate

PhD study at the Institute of Solid State Chemistry and Mechanochemistry, Russian Academy of Sciences, Novosibirsk, Russia; PhD degree in *Solid State Chemistry* in 06/1995

1998 - 2003

PostDoc

Alexander von Humboldt (AvH) Fellow in the Solid State Chemistry Group at the Institute of Physical and Theoretical Chemistry, Braunschweig University of Technology, Braunschweig, Germany

07/2002

Habilitation

DrSc. in *Materials Science* at the Technical University Košice, Košice, Slovakia

08/2004

Mercator Professor

Mercator Professor of the Deutsche Forschungsgemeinschaft (DFG) at the Centre for Solid State Chemistry and New Materials, Leibniz University Hannover, Hannover, Germany

WORK EXPERIENCE / CAREER

09/1986 - 12/1990

Junior researcher at the Institute of Geotechnics, Slovak Academy of Sciences, Košice

01/1991 - 06/1995

PhD student at the Institute of Solid State Chemistry and Mechanochemistry, Russian Academy of Sciences, Novosibirsk

07/1995 - 05/1998

Head of the Department of Mechanochemistry, Institute of Geotechnics, Slovak Academy of Sciences, Košice

06/1998 - 08/2003

AvH Fellow at the Institute of Physical and Theoretical Chemistry, Braunschweig University of Technology, Braunschweig

09/2003 - 07/2004

Leading researcher at the Institute of Physical and Theoretical Chemistry, Braunschweig University of Technology, Braunschweig

08/2004 - 07/2005

Mercator Professor of the DFG at the Centre for Solid State Chemistry and New Materials, Leibniz University Hannover, Hannover

08/2005 - 06/2009

Leading researcher at the Institute of Physical and Theoretical Chemistry, Braunschweig University of Technology, Braunschweig

since 07/2009

Principal Investigator at the Institute of Nanotechnology, Karlsruhe Institute of Technology, Eggenstein-Leopoldshafen

ADDITIONAL INFORMATION

Peer-reviewed publications > 150

Citations > 4000

h-index: 37

Research projects VŠ has competed nationally and internationally in the multidisciplinary fields of *Materials Science*, *Solid State Chemistry* and *Physics* for many years, as demonstrated, for example, by his participation in highly competitive programs such as *Priority Program of the DFG*, *DFG Mercator Professorship*, *Alexander von Humboldt Fellowship* as well as in numerous national (APVV, VEGA) and international research projects (AVČR, V4-Japan).

Honours, awards

- 1986: Prize of the Ministry of Education of the Slovak Republic, Bratislava; • 1987: Prize of the Slovak Literary Fund for Diploma Thesis: *Theoretical Description of Crystallization of Amorphous Phase*, Bratislava; • 1994: Prize of the President of the International Union of Crystallography (IUCr), Dresden; • 1995: Prize of the Slovak Literary Fund for PhD Thesis: *Thermal Stability and Reactivity of Mechanically Activated Zinc Ferrite*, Bratislava; • 1997: Prize of the Society for New Materials and Technologies of the Slovak Republic, Kosice; • 1998: AvH Fellow, Bonn; • 2001: AvH Fellow for Long-Term Cooperation, Bonn; • 2002: Prize for Outstanding Presentation, International Conference on Nanostructured Advanced Magnetic Materials, Irsee; • 2002: United Engineering Foundation Conference Fellow, Irsee; • 2003: Chairman of 4th International Conference on Mechanochemistry and Mechanical Alloying (INCOME), Braunschweig; • 2004: Specialist Guest Editor of Special Issue of the Journal of Materials Science (V. Šepelák, K. D. Becker, Z. A. Munir, Mechanochemistry and Mechanical Alloying 2003, Kluwer Academic Publishers, Norwell, 2004, 633 pp); • 2004: Mercator Professor of the DFG, Bonn; • 2004: Prize of the Literary Fund (Prémia za trojročný vedecký ohlas), Bratislava; • 2006: INCOME Prize for Achievements in Mechanochemistry, Novosibirsk; • 2007: Prize of the Literary Fund (Prémia za trojročný vedecký ohlas), Bratislava; • 2009: Prize for Outstanding Presentation, 3rd International Conference on the Fundamental Bases of Mechanochemical Technologies, Novosibirsk; • 2009: Physical Chemistry Chemical Physics (PCCP) Hot Topic Prize, Bunsentagung, Köln; • 2010: Prize of the Literary Fund (Prémia za trojročný vedecký ohlas), Bratislava; • 2011: Elsevier Best Poster Award, Colloquium Spectroscopicum Internationale XXXVII, Rio de Janeiro; • 2011: Elected Vice President of the International Mechanochemical Association (IMA) under the International Union of Pure and Applied Chemistry (IUPAC); • 2012: Member of The Learned Society of Slovakia; • 2013: Honorable Insignia of Aurel Stodola for Excellence in Technical Sciences, Bratislava; • 2013: Commemorative Medal 60 Years of the Slovak Academy of Sciences, Smolenice; • 2013: International Center for Diffraction Data (ICDD) Recognition Award, Newtown Square; • 2013: Prize of the Literary Fund (Prémia za výnimočný vedecký ohlas na jedno dielo), Bratislava; • 2014: Prize of the Slovak Academy of Sciences, Bratislava; • 2015: Significant Personality of Lastomír, Lastomír; • 2015: Elected President of IMA under IUPAC; • 2016: Prize of the Literary Fund (Prémia za výnimočný vedecký ohlas na jedno dielo), Bratislava; • 2017: Chairman of 9th INCOME, Košice; • 2018: Prize for Best Presentation, 19th International Symposium on the Reactivity of Solids, Bayreuth

Membership

- President of IMA under IUPAC; • The Learned Society of Slovakia; • Scientific Board of the Slovak Academy of Sciences for Electronics, Materials Research and Technologies; • American Nano Society; • German Bunsen Society for Physical Chemistry; • International Society for Solid State Ionics; • Czech and Slovak Crystallographic Association; • French Mechanochemical Network; • Slovak Chemical Society; • Centre for Solid State Chemistry and New Materials, Leibniz University Hannover; • Slovak Mining Society; • Alexander von Humboldt Club; • Editorial Board of Nanomaterials (IF 2019: 4.034)

Košice, February 2020