

Prof. RNDr. Petr Vanýsek, CSc.

Curriculum vitae

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ORCID ID: 0000-0002-5458-393X

ResearcherID: A-1949-2016

Scopus Author ID: 7004078600

Address: Work:

Northern Illinois University
Department of Chemistry and Biochemistry
418 LaTourette Hall
DeKalb, IL 60115 (USA)

visiting:

of CEITEC - Central European Institute of Technology Brno University
Technology, Purkyňova 123 CZ-612 00 Brno, Czech Republic and
Faculty of Electrical Engineering and Communication, Department of
Electrical and Electronic Technology, Technická 3058/10, Královo
Pole, 61600, Brno, Czech Republic

Private:

P.O. Box 173, DeKalb, IL 60115-0173, USA

Telephone: cell (US) +1815 314-0110, cell (CZ) +420732584310

e-mail: petr.vanysek@niu.edu, Petr.Vanysek@ceitec.vutbr.cz

Born: in Ostrava, Czechoslovakia, presently Czech Republic

Status: US naturalized citizen

EDUCATION

1971-1976 MSc. (Summa Cum Laude), physical chemistry. Charles University, Prague, Czechoslovakia.

1977-1982 Ph.D. (Summa Cum Laude), physical chemistry. Czechoslovak Academy of Sciences, J. Heyrovský Institute of Physical Chemistry and Electrochemistry, Prague, Czechoslovakia.

EXPERIENCE

Present position:

Assistant (8/85-5/91), Associate (6/91), Full (2008) and Emeritus Professor (2014)
Northern Illinois University, Department of Chemistry and Biochemistry, DeKalb, IL
60115.

visiting:

Researcher. CEITEC - Central European Institute of Technology BUT, Brno, Czech Republic and
Professor. Faculty of Electrical Engineering and Communication, Department of Electrical and Electronic Technology, Technická 3058/10, Královo Pole, 61600, Brno, Czech Republic

Past positions:

2009-2012 Director of Graduate Studies in the Department of Chemistry and Biochemistry and Assistant Chair.
1981-1982 Research Associate, J. Heyrovský Institute of Physical Chemistry and Electrochemistry, Prague, Czechoslovakia.
1982 Assistant Professor, Charles University of Prague, part time, Faculty of Philosophy. Prague.
1982-1984 Postdoctoral Research Associate, University of North Carolina, Chapel Hill, North Carolina.
1984 Undergraduate Laboratories Coordinator, University of North Carolina, Chapel Hill.
1984-1985 Faculty-in-residence, University of New Hampshire, Durham, NH.
1993-1994 Visiting Professor, University of Calgary, Alberta, Canada.
1998 Research visitor: Sandia National Laboratories, Sensor Group. June/July.
1999 Research visitor: Georgia Institute of Technology, Sensor research. July.
2000-2002 Principal Scientist, ACLARA BioSciences, (sabbatical/leave of absence).
2004 Visiting Professor, University of Concepción, Chile, June 29-July 9.
2007 Visiting Scientist, University of Calgary, Alberta, Canada September-October
2007 Visiting Lecturer, University of Concepción, Chile, November
2016 Visiting Lecturer, University of Concepción, Chile, January

RESEARCH OBJECTIVES

Electrochemistry on interfaces between two immiscible electrolytes (structure, energetics, analytical applications). Electrochemical techniques (all the standard and contemporary methods of experimental inquiry with emphasis on interpretation of impedance and noise signal). Studies of oxides on metal surfaces, corrosion inhibition. Chemical sensors - Gas and liquid - principles, measurements, response evaluation. Electrochemical and interpretational aspects of quartz crystal microbalance oscillators. Applied electrochemistry – fuel cells and corrosion protection.

ACADEMIC HONORS

Fellow of the Electrochemical Society 2012

SELECTED EXAMPLES OF DISTINGUISHED SERVICE

Electrochemical Society (ECS), Chair, Europe Section 2017-2018
Electrochemical Society (ECS), Co-Editor *Interface* 2014-
Electrochemical Society (ECS), Editor in Chief 2012-2013
Federation of Materials Societies, President 2011-2013
Electrochemical Society (ECS), member of the Audit Committee 2010-2014
Electrochemical Society (ECS), Trustee to the Federation of Materials Societies 2009-2012

Electrochemical Society (ECS), member of the Financial Policy Advisory Committee 2008-2010.

Electrochemical Society (ECS), Secretary of the Society, Member of the Executive Committee. 2004-2008

Electrochemical Society (ECS), Publications Committee 2004-2008

Electrochemical Society (ECS), Society Meetings Committee 2004-2008

Electrochemical Society (ECS), Financial Committee 2004-2008

Electrochemical Society (ECS), Physical and Electroanalytical Division, Secretary 2015-

Electrochemical Society (ECS), European Section, Vice-Chair, 2015-

International Society of Electrochemistry, National Representative (USA) 2006-2008, elected for second term 2009-2011

Electrochemical Society, Physical Electrochemistry Division, secretary/treasurer 2003-2005

Society for Electroanalytical Chemistry, Member at large, Board of Directors 2003-2008

Society for Electroanalytical Chemistry, Treasurer, 2010-

Electrochemical Society – nominated for the Treasurer 2002

Electrochemical Society Chicago Section, Chairman 2002-2005

Electrochemical Society, Council of Sections, Chair 2002-2003

Electrochemical Society, Council of Sections, Secretary 2001-2002

Electrochemical Society - Technical affairs committee May 1999-May 2003

ECS Sensor Group, Chairman, 1996-1998

Electrochemical Society - Graduate awards committee - 1996

ECS Local Section (Chicago) Counselor, 1995-present

ECS Sensor Group, Vice-chairman, October 1994-96

Chairman, Local Section of ECS June 1994-95

Vice chairman, Local Section of ECS June 1993

Interface, Advisory Board, 1992-1996

Sensor Group, Newsletter editor, 1992-1996

Sensor Group, Member-at-large, 1992-1994

Treasurer, Local Section of the Electrochemical Society (ECS) 1992-1993

American Chemical Society – Past Member

TEACHING

34 years of teaching experience at the university level, both graduate and undergraduate, in following subjects:

Introductory chemistry (for nonchemists)

General chemistry (1st and 2nd semester sequence)

Quantitative analytical chemistry

Instrumental analytical chemistry

Electronics in chemical instrumentation

Graduate electroanalytical chemistry

Graduate applied electrochemistry

Graduate physical electrochemistry

Graduate special topics in electrochemistry (Fuel cells, Impedance measurements)

Introduction to research – a service course

Introduction to preparation of successful visual presentations – a service course
Short course on impedance spectroscopy
Short course on instrumental analysis
Interdisciplinary introductory course on nanoscience and nanotechnology (team teaching at the College of Engineering)
Chemistry for Electrical Engineers

SCIENTIFIC PUBLICATIONS

Results from Web of Science

Results found: 104
Sum of the Times Cited: 1952
Sum of Times Cited without self-citations: 1774
Citing Articles: 1297
Citing Articles without self-citations: 1244
Average Citations per Item: 18.77
h-index: 24

102. K. Lacina, O. Kubesa, P. Vanysek et al. *Electrochim. Acta* 2017 223 1-7.
101. T. Kazda and P. Vanysek, The Chalkboard: Lithium Batteries as Electrochemical Sources of Energy, *Electrochem. Soc. Interface* 2016 25(3) 47-49.
100. P. Vanýsek, Industry 4.0. *Electrochem. Soc. Interface* 2016 25(2) 3-4.
99. K. Lacina, P. Vanysek, P. Bednar et al. Redox-Pair-Defined Electrochemical Measurements: Biamperometric Setup for Elimination of Interferent Effects and for Sensing of Unstable Redox Systems. *ChemElectroChem* 2016 3(6) 877-882.
98. K. Castkova, A. Matousek, E. Bartonickova, J. Cihlar, P. Vanysek, J. Cihlar: Sintering of Ce, Sm, and Pr Oxide Nanorods, *Journal of the American Ceramic Society*, 2016 99 (4): 1155-1163. (published ahead of print DOI: 10.1111/jace.14087).
97. P. Vanýsek, P. Vyroubal, V. Novák and J. Haňka, Finite Elements Approach to Predicting Impedance Response of Geometrically Convolved Samples, *ECS Trans.* 2015 69(41): 11-17.
96. Ladislav Chladil, Petr Vanýsek, and Ondrej Cech: Effect of Zinc Ions on the Second Voltage Plateau of Non-Sintered Ni(OH)₂ Electrodes, *ECS Trans.* 2015 70(1): 53-57
95. Petr Vanýsek, Vitězslav Novák, and Ladislav Chladil: Investigation of Vanadium Oxidation States in Sulfuric Acid by Voltammetry and Electrochemical Impedance Spectroscopy. *ECS Trans.* 2015 70(1): 13-20

94. Hou, Binyang; Bu, Wei; Luo, Guangming; Vanysek, Petr and Schlossman, Mark L., Ion Distributions at Electrified Water-Organic Interfaces: PB-PMF Calculations and Impedance Spectroscopy Measurements, *J. Electrochem. Soc.* 162(12) (2015) H890-H897.
93. Hao Yu, Irena Yzeiri, Binyang Hou, Chiu-Hao Chen, Wei Bu, Petr Vanysek, Yu-Sheng Chen, Binhua Lin, Petr Král, and Mark L. Schlossman, Electric Field Effect on Phospholipid Monolayers at an Aqueous–Organic Liquid–Liquid Interface, *J. Phys. Chem. B*, 119(29) (2015) 9319-9334.
92. V. Novak, P. Vanysek and J. Cihlar, New Electrochemistry for New Materials at CEITEC, *ECS Transactions* 63 (1) 307-313 (2014).
91. P. Vanysek, H. Tavasol and K. L. Pilson, Electrochemistry in the Electrochemical Cells: There is more than just the working electrode. *ECS Transactions* 63 (1) 145-155 (2014).
90. P. Vanýsek: Electrochemical Impedance Spectroscopy – Just One of Many Tools to Study Batteries and Power Sources. *ECS Transactions* 48(1) (2014) 33-42.
89. P. Vanýsek, Editorial: ECS Journals Are Focused on the Future. *J. Electrochem. Soc.* 160 (5) Y1-Y1 (2013).
88. B. Hou, N. Laanait, H. Yu, W. Bu, J. Yoon, B. Lin, M. Meron, G Luo, P. Vanysek, and M. L. Schlossman, Ion Distributions at the Water/1,2-Dichloroethane Interface: Potential of Mean Force Approach to Analyzing X-ray Reflectivity and Interfacial Tension Measurements. *J. Phys. Chem. B*, 117, 5365-5378 (2013).
87. P. Vanysek. Electrochemical Impedance Spectroscopy – Just one of many tools to study batteries and power sources *Proceedings of the 13th ABAF Meeting, Brno, Czech Republic, 2012, p. 33-42.*
86. P. Vanysek, Society news: On Capitol Hill, *ECS Interface*, Summer 2012, p. 49. Not refereed.
85. P. Vanysek, Subra Suresh Receives FMS National Materials Advancement Award. *ECS Interface* Summer 2012 p. 25. Not reviewed
84. Petr Vanýsek and Chong Zheng, Triphenyl[(triphenylphosphoranylidene)amino]-phosphonium tetrakis(pentafluorophenyl)borate, *Acta Cryst.*, (2013) E69, o87. Published on line in December 2012.
83. N. Laanait, M. Mihaylov, B. Hou, H. Yu, P. Vanýsek, M. Meron, B. Lin, I. Benjamin, and M. L. Schlossman, Tuning ion correlations at an electrified soft interface, *Proceedings of the National Academy of Sciences*, 109(50) (2012) 20326-20331.

82. P. Vanýsek: Something old, something new (Editorial). *J. Electrochem. Soc.* 159(7) (2012) 159.
81. P. Vanýsek: The Thermodynamic and Practical Limits to Energy Conversion: Considerations in the Search for Alternative Energy Sources. *ECS Transactions* 40(1) (2012) 13-23.
80. P. Vanýsek: Two common electroanalytical techniques - cyclic voltammetry and impedance. Capacitance data from cyclic voltammetry. *ECS Transactions*, 41(28) (2012) 15-24.
79. D. Contreras, J. Rodríguez, L. Basaez, J. Freer, R. Valenzuela, H. Mansilla and P. Vanýsek: New insights in the dihydroxybenzenes-driven Fenton reaction: electrochemical study of interaction between dihydroxybenzenes and Fe(III). *Water Sci. Technol.* 64 (2011) 2103-2108.
78. N. Laanait, J. Yoon, B.-Y. Hou, P. Vanysek, M. Meron, B. Lin, G. Luo, I. Benjamin, and M. L. Schlossman. Monovalent ion condensation at the electrified liquid/liquid interface. *J. Chem. Phys.* (2010), 132(17), 171101/1-171101/4.
77. P. Vanýsek and H. Tavassol: Impedance in Electrochemistry--From Analytical Applications to Mechanistic Speculation. *ECS Transactions* 19(20) (2009) 43-54. (Published, refereed.)
76. P. Vanýsek and V. Novák: Liquid/liquid Electrochemistry in Electroanalysis: Fundamentals Revisited. In J. Li, P. Vanýsek, R. Brown, C. Bruckner-Lea, D. Hatchet and M. Josowicz [Eds.] 35 Years of Chemical Sensors. *ECS Transactions*, 19(6) (2009) 55-63.
75. P. Vanýsek: Impedance Data Masquerading as Unusual Circuit Elements: Instrumentation Artifacts. *ECS Transactions*, 13(13) (2008) 101-113.
74. Luis A. Basaez, Ivan M. Peric, Paola A. Jara, Cesar A. Soto, David R. Contreras, Carolina Aguirre and Petr Vanýsek: Electrochemical and Electrophoretic Study of Sodium Metamizole. *Journal of the Chilean Chemical Society*, 53 (2) (2008) 1126-1121.
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72. Petr Vanýsek and Philippe Gauthier: Disposable graphite electrodes for studies of catalytic layers of platinum. *Journal of New Materials for Electrochemical Systems* 11 (2008) 157-163. (Refereed)

71. Petr Vanýsek and Luis Basaez Ramirez: Interface between two immiscible liquid electrolytes: A review. *Journal of the Chilean Chemical Society*, 53 (2) (2008) 1455-1463.
70. G. Luo, S. Malkova, J. Yoon, D. G. Schultz, B. Lin, M. Meron, I. Benjamin, P. Vanýsek and M. L. Schlossman: Ion Distribution at the Nitrobenzene-Water Interface Electrified by a Common Ion. *J. Electroanal. Chem.*, 593 (2006) 142-158. [Invited paper.]
69. G. Luo, S. Malkova, S. V. Pingali, D. G. Schultz, B. Lin, M. Meron, I. Benjamin, P. Vanýsek and M. L. Schlossman: Structure of the Interface between Two Polar Liquid: Nitrobenzene and Water. *J. Phys. Chem. Lett. B.*, 110 (2006) 4527-4530.
68. P. Vanýsek and L. A. Delia, Impedance Characterization of a Quartz Crystal Microbalance. *Electroanalysis*, 18 (2006) 371-377.
67. G. Luo, S. Malkova, J. Yoon, D. G. Schultz, B. Lin, M. Meron, I. Benjamin, P. Vanýsek and M. L. Schlossman, Ion distributions near a liquid-liquid interface, *Science*, 311 (2006) 216-218.
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65. L. Basáez, P. Vanýsek, B. L. Rivas: Electrode polymer materials based on aniline. Influence of Ni²⁺, Co²⁺ and Cu²⁺ ions on its formation. *J. Chil. Chem. Soc.*, 50 (2005) 613-616.
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61. P. Vanýsek: Meeting reports – Paris Attracts Analytical Chemists. Report on the 203rd Meeting of the Electrochemical Society, held in Paris, France, 26 April – 2 May 2003. *Trends in Analytical Chemistry*, Vol 22, Nos. 7 + 8, 2003, pp. x-xii.
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57. J. Janata, M. Josowicz, P. Vanýsek, D. M. DeVaney, "Chemical Sensors," *Anal. Chem.* 70 (1998) 179R-208R.
56. P. Vanýsek, "Sensor Division: After a Decade and Into the Next Century," *Interface*, 7(4) (1998) 17 et 32.
55. L. Basáez and P. Vanýsek: Electrochemical studies of β -lactam antibiotics and their degradation products. *J. Pharm. Biomed. Anal.*, 19 (1999) 183-192.
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49. P. Vanýsek: Charge transfer processes on liquid/liquid interfaces: The first century. *Electrochim. Acta*, 40 (1995) 2841-2847.
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47. P. Vanýsek: The Sensor Division: Past, Present and Future. *Interface* 3 (1994) 19-27.
46. Petr Vanýsek: Analytical applications of electrified interfaces between two immiscible solutions. *TRAC - Trends in Analytical chemistry*, 12 (1993) 357-363.

45. Ivan Krejčí and Petr Vanýsek: Effect of zinc and iron ions on the electrochemistry of nickel oxide electrode: Slow cyclic voltammetry. *J. Power Sources*, 47 (1994) 79-88.
44. Giselle Sandí and Petr Vanýsek: Impedance and voltammetric studies of electrogenerated polyaniline conducting film. *Synthetic Metals*, 64 (1994) 1-8.
43. Ivan Krejčí, Petr Vanýsek and Antonín Trojánek: Transport of Zn(OH)^- ions across a polyolefin microporous membrane. *J. Electrochem. Soc.*, 14 (1993) 2279-2283.
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40. Petr Vanýsek and Richard P. Buck: Multi-ion Nernst distribution potential equations: Interfacial potentials at equilibrium liquid/liquid and membrane interfaces. *J. Electroanal. Chem.*, 297 (1991) 19-35.
39. Petr Vanýsek, Irma C. Hernandez and Jianjiang Xu: Determination of choline, picrate, dodecylsulfate and several quarternary ammonium salts on an electrified liquid/liquid microinterface. *Microchem. J.*, 4 (1990) 327-339.
38. Petr Vanýsek: Analytical applications of electrochemical processes on the interface between two immiscible electrolyte solutions, *Anal. Chem.*, 62 (1990) 827A-835A.
37. Petr Vanýsek and Irma C. Hernandez: Ion transport across a microscopic interface between two immiscible electrolytes, *J. Electrochem. Soc.*, 137 (1990) 2763-2768.
36. Petr Vanýsek, Irma C. Hernandez and Jianjiang Xu, Supporting electrolytes for electrochemistry on liquid/liquid interfaces: Crystal violet and tetrabutylammonium tetraphenylborate in nitrobenzene. *J. Colloid Interface Sci.*, 139 (1990) 527-534.
35. Petr Vanýsek and Irma Hernandez: Microscopic interface between two immiscible electrolytes: A parallelism to an ultramicroelectrode. *Anal. Lett.*, 23 (1990) 771-785.
34. Petr Vanýsek and Zhisheng Sun: Bovine serum albumin adsorption on a water/nitrobenzene interface. *Bioelectrochem. Bioenerget.*, 2 (1990) 177-194.
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- potentials of transfer of dye cations on liquid/liquid interfaces. *J. Colloid Interface Sci.*, 135 (1990) 272-282.
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 24. P. Vanýsek and R. P. Buck: Properties of the interface of two immiscible electrolytes mediated by molecules of biological importance. *J. Electrochem. Soc.*, 131, (1984) 1792-1796.
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1. J. Koryta, P. Vanýsek and M. Březina: Electrolysis with an electrolyte dropping electrode. *J. Electroanal. Chem. Interfacial Electrochem.*, 67 (1976) 263-266.