

Petr VanĀ^{1/2}sek

List of Publications by Year in descending order

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114
papers

1,726
citations

279701

23
h-index

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37
g-index

116
all docs

116
docs citations

116
times ranked

1437
citing authors

#	ARTICLE	IF	CITATIONS
1	Ion Distributions near a Liquid-Liquid Interface. <i>Science</i> , 2006, 311, 216-218.	6.0	229
2	Tuning ion correlations at an electrified soft interface. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 20326-20331.	3.3	74
3	Valinomycin mediated transfer of potassium across the water/nitrobenzene interface. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1983, 148, 117-121.	0.3	63
4	INTERFACE BETWEEN TWO IMMISCIBLE LIQUID ELECTROLYTES: A REVIEW. <i>Journal of the Chilean Chemical Society</i> , 2008, 53, .	0.5	61
5	Charge transfer processes on liquid/liquid interfaces: The first century. <i>Electrochimica Acta</i> , 1995, 40, 2841-2847.	2.6	51
6	The Effect of Film Thickness and Growth Method on Polyaniline Film Properties. <i>Journal of the Electrochemical Society</i> , 1999, 146, 3324-3334.	1.3	49
7	Redox flow batteries as the means for energy storage. <i>Journal of Energy Storage</i> , 2017, 13, 435-441.	3.9	47
8	New developments in liquid/liquid interface transport. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1984, 163, 1-9.	0.3	46
9	Properties of the Interface Between Two Immiscible Electrolytes in the Presence of Proteins. <i>Journal of the Electrochemical Society</i> , 1984, 131, 1788-1791.	1.3	42
10	Ion distributions at the nitrobenzene-water interface electrified by a common ion. <i>Journal of Electroanalytical Chemistry</i> , 2006, 593, 142-158.	1.9	42
11	X-ray studies of the interface between two polar liquids: neat and with electrolytes. <i>Faraday Discussions</i> , 2005, 129, 23.	1.6	39
12	Structure of the Interface between Two Polar Liquids: Nitrobenzene and Water. <i>Journal of Physical Chemistry B</i> , 2006, 110, 4527-4530.	1.2	39
13	Interfacial potential differences at mixed conductor interfaces: Nernst, Nernst-Donnan, Nernst Distribution and generalizations. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1990, 292, 73-91.	0.3	36
14	Ion Distributions at the Water/1,2-Dichloroethane Interface: Potential of Mean Force Approach to Analyzing X-ray Reflectivity and Interfacial Tension Measurements. <i>Journal of Physical Chemistry B</i> , 2013, 117, 5365-5378.	1.2	36
15	Synthesis and characterization of Na ₂ Ti ₆ O ₁₃ and Na ₂ Ti ₆ O ₁₃ /Na ₂ Ti ₃ O ₇ sodium titanates with nanorod-like structure as negative electrode materials for sodium-ion batteries. <i>Journal of Energy Storage</i> , 2017, 14, 391-398.	3.9	35
16	Investigation of acetylcholine, choline and acetylcholinesterase at the interface of the two immiscible electrolyte solutions. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1981, 130, 287-292.	0.3	34
17	Bovine serum albumin adsorption on a water/nitrobenzene interface. <i>Bioelectrochemistry</i> , 1990, 23, 177-194.	1.0	33
18	An In Vitro Corrosion Study of Open Cell Iron Structures with PEG Coating for Bone Replacement Applications. <i>Metals</i> , 2018, 8, 499.	1.0	30

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19	Communications: Monovalent ion condensation at the electrified liquid/liquid interface. Journal of Chemical Physics, 2010, 132, 171101.	1.2	28
20	The width of the water/2-heptanone liquid-liquid interface. Electrochemistry Communications, 2005, 7, 627-630.	2.3	25
21	Properties of the Interface of Two Immiscible Electrolytes Mediated by Molecules of Biological Importance: A Literature Review. Journal of the Electrochemical Society, 1984, 131, 1792-1796.	1.3	24
22	Multi-ion Nernst distribution potential equations: interfacial potentials at equilibrium liquid/liquid and membrane interfaces. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1991, 297, 19-35.	0.3	24
23	Impedance and voltammetric studies of electrogenerated polyaniline conducting films. Synthetic Metals, 1994, 64, 1-8.	2.1	24
24	An electrochemical study of the composition of thin, compact Pd oxide films. Journal of the Chemical Society, Faraday Transactions, 1996, 92, 4041-4047.	1.7	24
25	Editorial: ECS Journals Are Focused on the Future. Journal of the Electrochemical Society, 2013, 160, Y1-Y1.	1.3	24
26	311 - A new model of membrane transport: electrolysis at the interface of two immiscible electrolyte solutions. Bioelectrochemistry, 1980, 7, 61-68.	1.0	23
27	Study of zinc deposited in the presence of organic additives for zinc-based secondary batteries. Journal of Energy Storage, 2019, 21, 295-300.	3.9	23
28	Effect of negative potential on the extent of PID degradation in photovoltaic power plant in a real operation mode. Microelectronics Reliability, 2018, 85, 12-18.	0.9	22
29	Potential dependence of capacitance at a polarizable (blocked) liquid/liquid interface. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1984, 161, 1-15.	0.3	20
30	Ion Transport across a Microscopic Interface between two Immiscible Electrolytes. Journal of the Electrochemical Society, 1990, 137, 2763-2768.	1.3	20
31	Transfer of alkali-metal and hydrogen ions across liquid/liquid interfaces mediated by monensin. A voltammetric study at the interface of two immiscible electrolyte solutions. Faraday Discussions of the Chemical Society, 1984, 77, 209-216.	2.2	19
32	Impedance characterization of thin electrochemically formed palladium oxide films. Journal of Electroanalytical Chemistry, 1994, 378, 63-75.	1.9	19
33	Effect of zinc and iron ions on the electrochemistry of nickel oxide electrode: slow cyclic voltammetry. Journal of Power Sources, 1994, 47, 79-88.	4.0	18
34	Proton transfer across the water/nitrobenzene interface facilitated by β -hexylate anion. Electrochimica Acta, 1983, 28, 575-577.	2.6	17
35	Transport of Zn^{2+} (OH^{-}) 4×10^{-4} M ions across a Polyolefin Microporous Membrane. Journal of the Electrochemical Society, 1993, 140, 2279-2283.	1.3	15
36	Diversity of ion carrier functions of monensin: A study using voltammetry at the interface of two immiscible electrolyte solutions. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1983, 159, 413-420.	0.3	14

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37	Prediction of deuterium abundance in comets. <i>Icarus</i> , 1985, 61, 57-59.	1.1	14
38	Electrochemical determination of lead and lead ion transfer at liquid-liquid interfaces. <i>Analytica Chimica Acta</i> , 1990, 228, 241-249.	2.6	14
39	Determination of choline, picrate, dodecyl sulfate, and several quaternary ammonium salts on an electrified liquid/liquid microinterface. <i>Microchemical Journal</i> , 1990, 41, 327-339.	2.3	14
40	Transport studies of β -lactam antibiotics and their degradation products across electrified water/oil interface. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 1999, 19, 183-192.	1.4	14
41	Polarization phenomena at ionic membrane/electrolyte interfaces. <i>Journal of Electroanalytical Chemistry</i> , 1992, 332, 349-355.	1.9	13
42	Potential dependence of capacitance at a liquid/liquid interface. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1984, 170, 109-125.	0.3	12
43	Nanostructured Gold Microelectrodes for Non-enzymatic Glucose Sensor. <i>Electroanalysis</i> , 2019, 31, 1680-1689.	1.5	12
44	Synthesizing a LiFePO ₄ /graphene composite with electrochemically prepared few-layer graphene. <i>Journal of Energy Storage</i> , 2019, 22, 373-377.	3.9	12
45	Electrochemical processes at liquid interfaces. <i>Analytical Chemistry</i> , 1990, 62, 827A-835A.	3.2	11
46	Ion Distributions at Electrified Water-Organic Interfaces: PB-PMF Calculations and Impedance Spectroscopy Measurements. <i>Journal of the Electrochemical Society</i> , 2015, 162, H890-H897.	1.3	11
47	Electric Field Effect on Phospholipid Monolayers at an Aqueous-Organic Liquid-Liquid Interface. <i>Journal of Physical Chemistry B</i> , 2015, 119, 9319-9334.	1.2	11
48	Mixed Sodium Titanate As an Anode for a Sodium-Ion Battery. <i>ECS Transactions</i> , 2016, 74, 331-337.	0.3	11
49	Redox and optically active carbohelicene layers prepared by potentiodynamic polymerization. <i>Electrochemistry Communications</i> , 2020, 113, 106689.	2.3	11
50	Structure of crystal violet tetraphenylborate. <i>Journal of Crystallographic and Spectroscopic Research</i> , 1989, 19, 589-596.	0.3	10
51	Interfacial Ion Transport between Immiscible Liquids. <i>Advances in Chemistry Series</i> , 1994, , 55-81.	0.6	10
52	Boosting of the output voltage of a galvanic cell. <i>Electrochimica Acta</i> , 2018, 282, 331-335.	2.6	10
53	Ligand-to-metal charge transfer (LMCT) complex: New approach to non-enzymatic glucose sensors based on TiO ₂ . <i>Journal of Electroanalytical Chemistry</i> , 2020, 878, 114589.	1.9	10
54	Impact of electrode geometry, depth of immersion, and size on impedance measurements. <i>Canadian Journal of Chemistry</i> , 1997, 75, 1635-1642.	0.6	9

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55	New insights in the dihydroxybenzenes-driven Fenton reaction: electrochemical study of interaction between dihydroxybenzenes and Fe(III). <i>Water Science and Technology</i> , 2011, 64, 2103-2108.	1.2	9
56	In-situ AFM observations of the effect of addition of glass fibers and lignosulfonates on performance of the negative active mass of a lead-acid storage battery. <i>Journal of Energy Storage</i> , 2020, 29, 101318.	3.9	9
57	Proton transfer across the water/nitrobenzene interface facilitated by aniline. <i>Journal of Colloid and Interface Science</i> , 1983, 96, 548-550.	5.0	8
58	Redox-Defined Electrochemical Measurements: Biamperometric Setup for Elimination of Interferent Effects and for Sensing of Unstable Redox Systems. <i>ChemElectroChem</i> , 2016, 3, 877-882.	1.7	8
59	Spectroscopic and Fluorometric Characterization of Oxacyanine Dyes in Water and Nitrobenzene. <i>Applied Spectroscopy</i> , 1988, 42, 958-961.	1.2	7
60	Impedance Characterization of a Quartz Crystal Microbalance. <i>Electroanalysis</i> , 2006, 18, 371-377.	1.5	7
61	Liquid/liquid Electrochemistry in Electroanalysis: Fundamentals Revisited. <i>ECS Transactions</i> , 2009, 19, 55-63.	0.3	7
62	In-Situ X-Ray Study of Carbon Coated LiFePO ₄ for Li-Ion Battery in Different State of Charge. <i>ECS Transactions</i> , 2018, 87, 107-114.	0.3	7
63	A new model of membrane transport: Electrolysis at the interface of two immiscible electrolyte solutions. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1980, 116, 61-68.	0.3	6
64	Uncertainty in the potential of a reference interface in liquid/liquid measurements. <i>Electroanalysis</i> , 1990, 2, 409-413.	1.5	6
65	ELECTROCHEMICAL AND ELECTROPHORETIC STUDY OF SODIUM METAMIZOLE. <i>Journal of the Chilean Chemical Society</i> , 2008, 53, .	0.5	6
66	Changes of temperature during pulse charging of lead acid battery cell in a flooded state. <i>Journal of Energy Storage</i> , 2017, 14, 364-371.	3.9	6
67	Selective electrocatalysis of reduced graphene oxide towards hydrogen peroxide aiming oxidases-based biosensing: Caution while interpreting. <i>Electrochimica Acta</i> , 2017, 223, 1-7.	2.6	6
68	Determination of aniline traces in nitrobenzene by the facilitated proton transfer across the water/nitrobenzene interface. <i>Microchemical Journal</i> , 1984, 29, 162-167.	2.3	5
69	Distribution of oxacyanine dyes between water and nitrobenzene: Determination of the partition constants, association, and potentials of transfer of the dye cations on liquid/liquid interfaces. <i>Journal of Colloid and Interface Science</i> , 1990, 135, 272-282.	5.0	5
70	Impedance Data Masquerading as Unusual Circuit Elements: Instrumentation Artifacts. <i>ECS Transactions</i> , 2008, 13, 101-113.	0.3	5
71	Mobilities of some univalent ions in aqueous and nitrobenzene media. <i>Collection of Czechoslovak Chemical Communications</i> , 1984, 49, 1277-1281.	1.0	4
72	Bovine serum albumin adsorption on a water / nitrobenzene interface. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1990, 298, 177-194.	0.3	4

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73	Sintering of Ce, Sm, and Pr Oxide Nanorods. <i>Journal of the American Ceramic Society</i> , 2016, 99, 1155-1163.	1.9	4
74	The effect of post-treatment on the composition of formed negative electrode mass in lead acid batteries studied by XRD. <i>Journal of Energy Storage</i> , 2017, 14, 378-382.	3.9	4
75	Graphene Oxide from Improved Hummersâ€™™ Method: Is This Material Suitable for Reproducible Electrochemical (Bio)Sensing?. <i>ECS Journal of Solid State Science and Technology</i> , 2018, 7, M166-M171.	0.9	4
76	Supporting electrolytes for electrochemistry at liquid/liquid interfaces: Crystal violet and tetrabutylammonium tetraphenylborate in nitrobenzene. <i>Journal of Colloid and Interface Science</i> , 1990, 139, 527-534.	5.0	3
77	Two Common Electroanalytical Techniques - Cyclic Voltammetry and Impedance Capacitance Data from Cyclic Voltammetry. <i>ECS Transactions</i> , 2012, 41, 15-24.	0.3	3
78	Historic and suppressed technologies for energetics. <i>Journal of Energy Storage</i> , 2020, 27, 101105.	3.9	3
79	In-Situ Atomic Force Microscopy Observations of the Effect of Addition of Graphite and Titanium Dioxide on Performance of the Negative Active Mass of a Lead-Acid Battery. <i>Journal of Energy Storage</i> , 2021, 44, 103246.	3.9	3
80	Microscopic Interface Between Two Immiscible Electrolytes: A Parallelism to an Ultramicroelectrode. <i>Analytical Letters</i> , 1990, 23, 771-785.	1.0	2
81	XRD Study of Lead Sulphate Crystal Growth in a Sulphuric Acid Solution. <i>ECS Transactions</i> , 2016, 74, 147-155.	0.3	2
82	Pulse Deposition of Zinc in Electrolytes with Reduced Zinc Oxide Solubility. <i>ECS Transactions</i> , 2016, 74, 137-146.	0.3	2
83	DC Compliance Bias Introduced by a Potentiostat: Effects During AC Impedance Measurements and Possible Prevention. <i>ECS Transactions</i> , 2009, 19, 43-54.	0.3	1
84	Fibrous Materials Prepared by Centrifugal Force Spinning. <i>ECS Transactions</i> , 2018, 87, 261-267.	0.3	1
85	Structure of the Double Layer and Rates of Ion Crossings at â€œSingleâ€ Immiscible Liquid/Liquid (L/L) Interfaces. , 1986, , 103-185.		1
86	Data correction technique for using common electrochemical apparatus for the measurement of crystal impedance. <i>Electrochimica Acta</i> , 2007, 52, 8031-8038.	2.6	0
87	Liquid/liquid Electrochemistry in Electroanalysis: Fundamentals Revisited. <i>ECS Meeting Abstracts</i> , 2009, , .	0.0	0
88	Electrochemical Impedance Spectroscopy - Just One of Many Tools to Study Batteries and Power Sources. <i>ECS Transactions</i> , 2014, 48, 33-42.	0.3	0
89	From the Editor: Working with Stuff. <i>Electrochemical Society Interface</i> , 2014, 23, 3-3.	0.3	0
90	Interface at Twenty-Five: The Editors of <i>Interface</i> â€™™ The First Twenty-Five Years. <i>Electrochemical Society Interface</i> , 2016, 25, 20-23.	0.3	0

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91	Curing of Positive Electrode Mass of Lead Acid Battery Studied by XRD. ECS Transactions, 2016, 74, 131-136.	0.3	0
92	ECS Classics: Acheson, Silicon Carbide, and the Electric Arc. Electrochemical Society Interface, 2017, 26, 36-39.	0.3	0
93	Preface to the special issue on electrochemical energy storage discussed at the NZEE conference 2016 in Czech Republic. Journal of Energy Storage, 2017, 14, 363.	3.9	0
94	In-Situ Observations of Lead Sulfate Crystal Growth on the Surface of a Negative Electrode. ECS Transactions, 2017, 81, 145-150.	0.3	0
95	Asymmetric bipolar electrochemistry: Detailed empirical description and determination of output characteristics of a galvanic system with multiple short-circuited cells in one electrolyte. Electrochimica Acta, 2019, 307, 269-274.	2.6	0
96	Light Intensity Modulated Photo-Electrochemical Methods and Distribution of Relaxation Times As Tools to Investigation Photovoltaic Materials. ECS Meeting Abstracts, 2021, MA2021-01, 1787-1787.	0.0	0
97	Impedance Evaluation By Distribution of Relaxation Times Applied to a Lead-Acid Storage Battery. ECS Meeting Abstracts, 2021, MA2021-01, 29-29.	0.0	0
98	Encountering Spurious Elements in Electrical Impedance Spectroscopy Data Fitting. Journal of the Electrochemical Society, 2021, 168, 106512.	1.3	0
99	Triphenyl[(triphenylphosphoranylidene)amino]phosponium tetrakis(pentafluorophenyl)borate. Acta Crystallographica Section E: Structure Reports Online, 2013, 69, o87-o87.	0.2	0
100	From the Editor: "Use What You Need, but Need What You Use". Electrochemical Society Interface, 2016, 25, 3-3.	0.3	0
101	Electrochemical Properties of Mo Doped High Voltage Cathode for Lithium-Ion Battery. ECS Meeting Abstracts, 2016, , .	0.0	0
102	Using of Finite Elements Modeling Computer Simulation in Impedance Prediction and Data Evaluation. ECS Meeting Abstracts, 2016, , .	0.0	0
103	(Invited) Impedance Characterization of High-Temperature Spinned Fiber Ceramic Materials. ECS Meeting Abstracts, 2017, , .	0.0	0
104	ECS Classics: Weston, the Weston Cell, and the Volt. Electrochemical Society Interface, 2017, 26, 36-38.	0.3	0
105	From the Editor: 1917. Electrochemical Society Interface, 2017, 26, 3-3.	0.3	0
106	Synthesis of Mixed Na ₂ Ti ₃ O ₇ /Na ₂ Ti ₆ O ₁₃ Sodium Titanates with Different Phase Ratios and Their Lithium Insertion Properties. ECS Meeting Abstracts, 2017, , .	0.0	0
107	Titanium Oxide Filled Carbon Fibres for Lithium and Sodium Ion Insertion. ECS Meeting Abstracts, 2017, , .	0.0	0
108	Electrical Impedance Spectroscopy and Its Application in the Study of Electrochemical Sensors. ECS Meeting Abstracts, 2019, , .	0.0	0

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109	(Keynote Lecture) The Thermodynamic and Practical Limits to Energy Conversion: Considerations in the Search for Alternative Energy Sources. ECS Transactions, 2012, 40, 13-23.	0.3	0
110	Light Intensity Modulated Photo-Electrochemical Methods As a Tool in Investigation of Perovskites for Photovoltaics. ECS Meeting Abstracts, 2020, MA2020-01, 2573-2573.	0.0	0
111	Recent Progress in High-Voltage Cathode Materials for Lithium-Ion Batteries. ECS Transactions, 2020, 99, 17-23.	0.3	0
112	Electromigration and Flux Residues. ECS Transactions, 2021, 105, 401-409.	0.3	0
113	Visualizing Impedance Spectroscopy Response for Interpretation of Collected Data. ECS Transactions, 2021, 105, 109-118.	0.3	0
114	Perovskite Single Crystals for Energy Conversion of Solar Radiation. ECS Transactions, 2021, 105, 261-267.	0.3	0