

Petr VanĀ^{1/2}sek

List of Publications by Year in descending order

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1437
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#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Encountering Spurious Elements in Electrical Impedance Spectroscopy Data Fitting. Journal of the Electrochemical Society, 2021, 168, 106512.	1.3	0
4	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. Journal of Energy Storage, 2021, 44, 103246.	3.9	3
5	Electromigration and Flux Residues. ECS Transactions, 2021, 105, 401-409.	0.3	0
6	Visualizing Impedance Spectroscopy Response for Interpretation of Collected Data. ECS Transactions, 2021, 105, 109-118.	0.3	0
7	Perovskite Single Crystals for Energy Conversion of Solar Radiation. ECS Transactions, 2021, 105, 261-267.	0.3	0
8	Historic and suppressed technologies for energetics. Journal of Energy Storage, 2020, 27, 101105.	3.9	3
9	Ligand-to-metal charge transfer (LMCT) complex: New approach to non-enzymatic glucose sensors based on TiO ₂ . Journal of Electroanalytical Chemistry, 2020, 878, 114589.	1.9	10
10	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. Journal of Energy Storage, 2020, 29, 101318.	3.9	9
11	Redox and optically active carbohelicene layers prepared by potentiodynamic polymerization. Electrochemistry Communications, 2020, 113, 106689.	2.3	11
12	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
13	Recent Progress in High-Voltage Cathode Materials for Lithium-Ion Batteries. ECS Transactions, 2020, 99, 17-23.	0.3	0
14	Nanostructured Gold Microelectrodes for Non-enzymatic Glucose Sensor. Electroanalysis, 2019, 31, 1680-1689.	1.5	12
15	Synthesizing a LiFePO ₄ /graphene composite with electrochemically prepared few-layer graphene. Journal of Energy Storage, 2019, 22, 373-377.	3.9	12
16	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
17	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
18	Electrical Impedance Spectroscopy and Its Application in the Study of Electrochemical Sensors. ECS Meeting Abstracts, 2019, . .	0.0	0

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19	Effect of negative potential on the extent of PID degradation in photovoltaic power plant in a real operation mode. <i>Microelectronics Reliability</i> , 2018, 85, 12-18.	0.9	22
20	Fibrous Materials Prepared by Centrifugal Force Spinning. <i>ECS Transactions</i> , 2018, 87, 261-267.	0.3	1
21	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
22	Graphene Oxide from Improved Hummers's™ 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
23	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
24	Boosting of the output voltage of a galvanic cell. <i>Electrochimica Acta</i> , 2018, 282, 331-335.	2.6	10
25	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
26	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
27	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
28	Redox flow batteries as the means for energy storage. <i>Journal of Energy Storage</i> , 2017, 13, 435-441.	3.9	47
29	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
30	ECS Classics: Acheson, Silicon Carbide, and the Electric Arc. <i>Electrochemical Society Interface</i> , 2017, 26, 36-39.	0.3	0
31	Preface to the special issue on electrochemical energy storage discussed at the NZEE conference 2016 in Czech Republic. <i>Journal of Energy Storage</i> , 2017, 14, 363.	3.9	0
32	In-Situ Observations of Lead Sulfate Crystal Growth on the Surface of a Negative Electrode. <i>ECS Transactions</i> , 2017, 81, 145-150.	0.3	0
33	(Invited) Impedance Characterization of High-Temperature Spun Fiber Ceramic Materials. <i>ECS Meeting Abstracts</i> , 2017, , .	0.0	0
34	ECS Classics: Weston, the Weston Cell, and the Volt. <i>Electrochemical Society Interface</i> , 2017, 26, 36-38.	0.3	0
35	From the Editor: 1917. <i>Electrochemical Society Interface</i> , 2017, 26, 3-3.	0.3	0
36	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. <i>ECS Meeting Abstracts</i> , 2017, , .	0.0	0

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37	Titanium Oxide Filled Carbon Fibres for Lithium and Sodium Ion Insertion. ECS Meeting Abstracts, 2017, , .	0.0	0
38	Interface at Twenty-Five: The Editors of Interface – The First Twenty-Five Years. Electrochemical Society Interface, 2016, 25, 20-23.	0.3	0
39	Redox – Pair – Defined Electrochemical Measurements: Biparametric Setup for Elimination of Interferent Effects and for Sensing of Unstable Redox Systems. ChemElectroChem, 2016, 3, 877-882.	1.7	8
40	Mixed Sodium Titanate As an Anode for a Sodium-Ion Battery. ECS Transactions, 2016, 74, 331-337.	0.3	11
41	Curing of Positive Electrode Mass of Lead Acid Battery Studied by XRD. ECS Transactions, 2016, 74, 131-136.	0.3	0
42	XRD Study of Lead Sulphate Crystal Growth in a Sulphuric Acid Solution. ECS Transactions, 2016, 74, 147-155.	0.3	2
43	Pulse Deposition of Zinc in Electrolytes with Reduced Zinc Oxide Solubility. ECS Transactions, 2016, 74, 137-146.	0.3	2
44	Sintering of Ce, Sm, and Pr Oxide Nanorods. Journal of the American Ceramic Society, 2016, 99, 1155-1163.	1.9	4
45	From the Editor: – Use What You Need, but Need What You Use –. Electrochemical Society Interface, 2016, 25, 3-3.	0.3	0
46	Electrochemical Properties of Mo Doped High Voltage Cathode for Lithium-Ion Battery. ECS Meeting Abstracts, 2016, , .	0.0	0
47	Using of Finite Elements Modeling Computer Simulation in Impedance Prediction and Data Evaluation. ECS Meeting Abstracts, 2016, , .	0.0	0
48	Ion Distributions at Electrified Water-Organic Interfaces: PB-PMF Calculations and Impedance Spectroscopy Measurements. Journal of the Electrochemical Society, 2015, 162, H890-H897.	1.3	11
49	Electric Field Effect on Phospholipid Monolayers at an Aqueous – Organic Liquid – Liquid Interface. Journal of Physical Chemistry B, 2015, 119, 9319-9334.	1.2	11
50	Electrochemical Impedance Spectroscopy - Just One of Many Tools to Study Batteries and Power Sources. ECS Transactions, 2014, 48, 33-42.	0.3	0
51	From the Editor: Working with Stuff. Electrochemical Society Interface, 2014, 23, 3-3.	0.3	0
52	Ion Distributions at the Water/1,2-Dichloroethane Interface: Potential of Mean Force Approach to Analyzing X-ray Reflectivity and Interfacial Tension Measurements. Journal of Physical Chemistry B, 2013, 117, 5365-5378.	1.2	36
53	Editorial: ECS Journals Are Focused on the Future. Journal of the Electrochemical Society, 2013, 160, Y1-Y1.	1.3	24
54	Triphenyl[(triphenylphosphoranylidene)amino]phosphonium tetrakis(pentafluorophenyl)borate. Acta Crystallographica Section E: Structure Reports Online, 2013, 69, o87-o87.	0.2	0

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55	Tuning ion correlations at an electrified soft interface. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 20326-20331.	3.3	74
56	Two Common Electroanalytical Techniques - Cyclic Voltammetry and Impedance Capacitance Data from Cyclic Voltammetry. ECS Transactions, 2012, 41, 15-24.	0.3	3
57	(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
58	New insights in the dihydroxybenzenes-driven Fenton reaction: electrochemical study of interaction between dihydroxybenzenes and Fe(III). Water Science and Technology, 2011, 64, 2103-2108.	1.2	9
59	Communications: Monovalent ion condensation at the electrified liquid/liquid interface. Journal of Chemical Physics, 2010, 132, 171101.	1.2	28
60	Liquid/liquid Electrochemistry in Electroanalysis: Fundamentals Revisited. ECS Meeting Abstracts, 2009, , .	0.0	0
61	DC Compliance Bias Introduced by a Potentiostat: Effects During AC Impedance Measurements and Possible Prevention. ECS Transactions, 2009, 19, 43-54.	0.3	1
62	Liquid/liquid Electrochemistry in Electroanalysis: Fundamentals Revisited. ECS Transactions, 2009, 19, 55-63.	0.3	7
63	Impedance Data Masquerading as Unusual Circuit Elements: Instrumentation Artifacts. ECS Transactions, 2008, 13, 101-113.	0.3	5
64	ELECTROCHEMICAL AND ELECTROPHORETIC STUDY OF SODIUM METAMIZOLE. Journal of the Chilean Chemical Society, 2008, 53, .	0.5	6
65	INTERFACE BETWEEN TWO IMMISCIBLE LIQUID ELECTROLYTES: A REVIEW. Journal of the Chilean Chemical Society, 2008, 53, .	0.5	61
66	Data correction technique for using common electrochemical apparatus for the measurement of crystal impedance. Electrochimica Acta, 2007, 52, 8031-8038.	2.6	0
67	Structure of the Interface between Two Polar Liquids: Nitrobenzene and Water. Journal of Physical Chemistry B, 2006, 110, 4527-4530.	1.2	39
68	Ion Distributions near a Liquid-Liquid Interface. Science, 2006, 311, 216-218.	6.0	229
69	Ion distributions at the nitrobenzene-water interface electrified by a common ion. Journal of Electroanalytical Chemistry, 2006, 593, 142-158.	1.9	42
70	Impedance Characterization of a Quartz Crystal Microbalance. Electroanalysis, 2006, 18, 371-377.	1.5	7
71	The width of the water/2-heptanone liquid-liquid interface. Electrochemistry Communications, 2005, 7, 627-630.	2.3	25
72	X-ray studies of the interface between two polar liquids: neat and with electrolytes. Faraday Discussions, 2005, 129, 23.	1.6	39

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73	The Effect of Film Thickness and Growth Method on Polyaniline Film Properties. Journal of the Electrochemical Society, 1999, 146, 3324-3334.	1.3	49
74	Transport studies of β -lactam antibiotics and their degradation products across electrified water/oil interface. Journal of Pharmaceutical and Biomedical Analysis, 1999, 19, 183-192.	1.4	14
75	Impact of electrode geometry, depth of immersion, and size on impedance measurements. Canadian Journal of Chemistry, 1997, 75, 1635-1642.	0.6	9
76	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
77	Charge transfer processes on liquid/liquid interfaces: The first century. Electrochimica Acta, 1995, 40, 2841-2847.	2.6	51
78	Interfacial Ion Transport between Immiscible Liquids. Advances in Chemistry Series, 1994, , 55-81.	0.6	10
79	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
80	Impedance characterization of thin electrochemically formed palladium oxide films. Journal of Electroanalytical Chemistry, 1994, 378, 63-75.	1.9	19
81	Impedance and voltammetric studies of electrogenerated polyaniline conducting films. Synthetic Metals, 1994, 64, 1-8.	2.1	24
82	Transport of Zn ²⁺ and OH ⁻ ions across a Polyolefin Microporous Membrane. Journal of the Electrochemical Society, 1993, 140, 2279-2283.	1.3	15
83	Polarization phenomena at ionic membrane/electrolyte interfaces. Journal of Electroanalytical Chemistry, 1992, 332, 349-355.	1.9	13
84	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
85	Uncertainty in the potential of a reference interface in liquid/liquid measurements. Electroanalysis, 1990, 2, 409-413.	1.5	6
86	Bovine serum albumin adsorption on a water/nitrobenzene interface. Bioelectrochemistry, 1990, 23, 177-194.	1.0	33
87	Electrochemical determination of lead and lead ion transfer at liquid-liquid interfaces. Analytica Chimica Acta, 1990, 228, 241-249.	2.6	14
88	Determination of choline, picrate, dodecyl sulfate, and several quaternary ammonium salts on an electrified liquid/liquid microinterface. Microchemical Journal, 1990, 41, 327-339.	2.3	14
89	Supporting electrolytes for electrochemistry at liquid/liquid interfaces: Crystal violet and tetrabutylammonium tetraphenylborate in nitrobenzene. Journal of Colloid and Interface Science, 1990, 139, 527-534.	5.0	3
90	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. Journal of Colloid and Interface Science, 1990, 135, 272-282.	5.0	5

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91	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
92	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
93	Ion Transport across a Microscopic Interface between two Immiscible Electrolytes. <i>Journal of the Electrochemical Society</i> , 1990, 137, 2763-2768.	1.3	20
94	Microscopic Interface Between Two Immiscible Electrolytes: A Parallelism to an Ultramicroelectrode. <i>Analytical Letters</i> , 1990, 23, 771-785.	1.0	2
95	Electrochemical processes at liquid interfaces. <i>Analytical Chemistry</i> , 1990, 62, 827A-835A.	3.2	11
96	Structure of crystal violet tetraphenylborate. <i>Journal of Crystallographic and Spectroscopic Research</i> , 1989, 19, 589-596.	0.3	10
97	Spectroscopic and Fluorometric Characterization of Oxocyanine Dyes in Water and Nitrobenzene. <i>Applied Spectroscopy</i> , 1988, 42, 958-961.	1.2	7
98	Structure of the Double Layer and Rates of Ion Crossings at a Single Immiscible Liquid/Liquid (L/L) Interfaces. , 1986, , 103-185.		1
99	Prediction of deuterium abundance in comets. <i>Icarus</i> , 1985, 61, 57-59.	1.1	14
100	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
101	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
102	New developments in liquid/liquid interface transport. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1984, 163, 1-9.	0.3	46
103	Potential dependence of capacitance at a polarizable (blocked) liquid/liquid interface. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1984, 161, 1-15.	0.3	20
104	Properties of the Interface of Two Immiscible Electrolytes Mediated by Molecules of Biological Importance: A Literature Review. <i>Journal of the Electrochemical Society</i> , 1984, 131, 1792-1796.	1.3	24
105	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
106	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. <i>Faraday Discussions of the Chemical Society</i> , 1984, 77, 209-216.	2.2	19
107	Mobilities of some univalent ions in aqueous and nitrobenzene media. <i>Collection of Czechoslovak Chemical Communications</i> , 1984, 49, 1277-1281.	1.0	4
108	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

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109	Diversity of ion carrier functions of monensin: A study using voltammetry at the interface of two immiscible electrolyte solutions. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1983, 159, 413-420.	0.3	14
110	Proton transfer across the water/nitrobenzene interface facilitated by $\hat{\pm}$ -hexylate anion. <i>Electrochimica Acta</i> , 1983, 28, 575-577.	2.6	17
111	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
112	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
113	311 - A new model of membrane transport: electrolysis at the interface of two immiscible electrolyte solutions. <i>Bioelectrochemistry</i> , 1980, 7, 61-68.	1.0	23
114	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