

Valentin Mirceski

List of Publications by Year in descending order

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120
papers

3,279
citations

126901

33
h-index

182417

51
g-index

120
all docs

120
docs citations

120
times ranked

1972
citing authors

#	ARTICLE	IF	CITATIONS
1	Square-Wave Voltammetry. Monographs in Electrochemistry, 2007, , .	0.2	198
2	Square-Wave Voltammetry: A Review on the Recent Progress. Electroanalysis, 2013, 25, 2411-2422.	2.9	184
3	An electrochemical method for determination of the standard Gibbs energy of anion transfer between water and n-octanol. Electrochemistry Communications, 2002, 4, 277-283.	4.7	123
4	Split square-wave voltammograms of surface redox reactions. Electroanalysis, 1997, 9, 1283-1287.	2.9	93
5	Standard partition coefficients of anionic drugs in the n-octanol/water system determined by voltammetry at three-phase electrodes. Physical Chemistry Chemical Physics, 2003, 5, 3748-3751.	2.8	85
6	Determination of Standard Gibbs Energies of Transfer of Organic Anions across the Water/Nitrobenzene Interface. Langmuir, 2002, 18, 8000-8005.	3.5	79
7	New Approach to Electrode Kinetic Measurements in Square-Wave Voltammetry: Amplitude-Based Quasireversible Maximum. Analytical Chemistry, 2013, 85, 5586-5594.	6.5	76
8	Protein film voltammetry: electrochemical enzymatic spectroscopy. A review on recent progress. Journal of Solid State Electrochemistry, 2012, 16, 2315-2328.	2.5	69
9	Surface Catalytic Mechanism in Square-Wave Voltammetry. Electroanalysis, 2001, 13, 1326-1334.	2.9	66
10	New aspects of the electrochemical-catalytic (EC TM) mechanism in square-wave voltammetry. Electrochimica Acta, 2015, 167, 219-225.	5.2	65
11	Calcium Binding and Transport by Coenzyme Q. Journal of the American Chemical Society, 2011, 133, 9293-9303.	13.7	64
12	Square-wave voltammetry. ChemTexts, 2018, 4, 1.	1.9	63
13	Voltammetry of Organic Microparticles. Mikrochimica Acta, 1999, 132, 67-77.	5.0	57
14	The surface catalytic mechanism: a comparative study with square-wave and staircase cyclic voltammetry. Journal of Solid State Electrochemistry, 2003, 7, 157-165.	2.5	57
15	Kinetics of Anion Transfer across the Liquid Liquid Interface of a Thin Organic Film Modified Electrode, Studied by Means of Square-Wave Voltammetry. Analytical Chemistry, 2005, 77, 1940-1949.	6.5	56
16	Direct determination of metformin in urine by adsorptive catalytic square-wave voltammetry. Journal of Pharmaceutical and Biomedical Analysis, 2007, 45, 275-281.	2.8	49
17	Square-wave voltammetry of 5-fluorouracil. Journal of Electroanalytical Chemistry, 2000, 490, 37-47.	3.8	48
18	Quantification of the chiral recognition in electrochemically driven ion transfer across the interface water/chiral liquid. Electrochemistry Communications, 2002, 4, 659-662.	4.7	44

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19	The Silver Amalgam Film Electrode in Adsorptive Stripping Voltammetric Determination of Palladium(II) as Its Dimethyldioxime Complex. <i>Electroanalysis</i> , 2009, 21, 36-40.	2.9	43
20	Charge Transfer Kinetics in Thin-Film Voltammetry. Theoretical Study under Conditions of Square-Wave Voltammetry. <i>Journal of Physical Chemistry B</i> , 2004, 108, 13719-13725.	2.6	41
21	Studying the kinetics of the ion transfer across the liquid liquid interface by means of thin film-modified electrodes. <i>Electrochemistry Communications</i> , 2005, 7, 1122-1128.	4.7	41
22	Lutetium Bis(tetra-tert-butylphthalocyaninato): A Superior Redox Probe To Study the Transfer of Anions and Cations Across the Water Nitrobenzene Interface by Means of Square-Wave Voltammetry at the Three-Phase Electrode. <i>Journal of Physical Chemistry B</i> , 2005, 109, 1262-1267.	2.6	41
23	Electrode kinetic measurements with square-wave voltammetry at a constant scan rate. <i>Electrochimica Acta</i> , 2013, 114, 667-673.	5.2	41
24	Quasireversible Maximum in Cathodic Stripping Square-Wave Voltammetry. <i>Electroanalysis</i> , 1999, 11, 984-989.	2.9	40
25	Determination of the standard Gibbs energies of transfer of cations across the nitrobenzene water interface utilizing the reduction of iodine in an immobilized nitrobenzene droplet. <i>Electrochemistry Communications</i> , 2002, 4, 814-819.	4.7	40
26	Hydroxylated derivatives of dimethoxy-1,4-benzoquinone as redox switchable earth-alkaline metal ligands and radical scavengers. <i>Scientific Reports</i> , 2013, 3, 1865.	3.3	40
27	Diagnostics of Anodic Stripping Mechanisms under Square-Wave Voltammetry Conditions Using Bismuth Film Substrates. <i>Analytical Chemistry</i> , 2012, 84, 4429-4436.	6.5	39
28	Ohmic drop effects in square-wave voltammetry. <i>Journal of Electroanalytical Chemistry</i> , 2001, 497, 114-124.	3.8	38
29	Square-wave thin-film voltammetry: influence of uncompensated resistance and charge transfer kinetics. <i>Journal of Electroanalytical Chemistry</i> , 2004, 566, 351-360.	3.8	38
30	Review – Quantification of Hydrogen Peroxide by Electrochemical Methods and Electron Spin Resonance Spectroscopy. <i>Journal of the Electrochemical Society</i> , 2019, 166, G82-G101.	2.9	38
31	A Comparative Study of the Anion Transfer Kinetics Across a Water/Nitrobenzene Interface by Means of Electrochemical Impedance Spectroscopy and Square-Wave Voltammetry at Thin Organic Film-Modified Electrodes. <i>Langmuir</i> , 2006, 22, 3404-3412.	3.5	36
32	An in situ microscopic spectroelectrochemical study of a three-phase electrode where an ion transfer at the water nitrobenzene interface is coupled to an electron transfer at the interface ITO nitrobenzene. <i>Journal of Electroanalytical Chemistry</i> , 2004, 566, 371-377.	3.8	35
33	Theoretical and experimental study of the catalytic hydrogen evolution reaction in the presence of an adsorbed catalyst by means of square-wave voltammetry. <i>Journal of Electroanalytical Chemistry</i> , 2005, 585, 97-104.	3.8	35
34	Theoretical study of a surface electrode reaction preceded by a homogeneous chemical reaction under conditions of square-wave voltammetry. <i>Electrochemistry Communications</i> , 2005, 7, 515-522.	4.7	35
35	Determination of the standard Gibbs energies of transfer of cations and anions of amino acids and small peptides across the water nitrobenzene interface. <i>Amino Acids</i> , 2003, 24, 149-154.	2.7	34
36	Reduction of iodine at the organic liquid aqueous solution graphite electrode three-phase arrangement. <i>Journal of Electroanalytical Chemistry</i> , 2002, 522, 189-198.	3.8	33

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37	Square-wave voltammetry of an EC reaction of a partly adsorbed redox couple. <i>Journal of Electroanalytical Chemistry</i> , 2001, 508, 138-149.	3.8	32
38	Theoretical and experimental study of the surface redox reaction involving interactions between the adsorbed particles under conditions of square-wave voltammetry. <i>Journal of Electroanalytical Chemistry</i> , 2001, 515, 91-100.	3.8	32
39	Studying electrode mechanism and analytical determination of cocaine and its metabolites at the mercury electrode using square-wave voltammetry. <i>Analytica Chimica Acta</i> , 2004, 512, 49-56.	5.4	31
40	Redox Chemistry of Ca-Transporter 2-Palmitoylhydroquinone in an Artificial Thin Organic Film Membrane. <i>Journal of Physical Chemistry C</i> , 2007, 111, 6068-6076.	3.1	29
41	Measuring the Electrode Kinetics of Surface Confined Electrode Reactions at a Constant Scan Rate. <i>Electroanalysis</i> , 2015, 27, 67-73.	2.9	29
42	Studying the coupled electron-ion transfer reaction at a thin film-modified electrode by means of square-wave voltammetry. <i>Journal of Electroanalytical Chemistry</i> , 2006, 586, 86-97.	3.8	27
43	A Cathodic Stripping Square-Wave Voltammetry of a Second-Order Redox Reaction and Its Application to the Mercury-Cysteine System. <i>Electroanalysis</i> , 1998, 10, 976-984.	2.9	26
44	Comparative Study of the Thermodynamics and Kinetics of the Ion Transfer Across the Liquid Liquid Interface by Means of Three-Phase Electrodes. <i>Journal of Physical Chemistry B</i> , 2005, 109, 13228-13236.	2.6	26
45	A new rapid and simple method to determine the kinetics of electrode reactions of biologically relevant compounds from the half-peak width of the square-wave voltammograms. <i>Biophysical Chemistry</i> , 2008, 138, 130-137.	2.8	26
46	Development of a rapid and simple voltammetric method to determine total antioxidative capacity of edible oils. <i>Food Chemistry</i> , 2013, 138, 116-121.	8.2	26
47	Protein-film voltammetry: A theoretical study of the temperature effect using square-wave voltammetry. <i>Biophysical Chemistry</i> , 2008, 137, 49-55.	2.8	25
48	Differential Square-Wave Voltammetry. <i>Analytical Chemistry</i> , 2019, 91, 14904-14910.	6.5	25
49	EC mechanism of an adsorbed redox couple. Volume vs surface chemical reaction. <i>Journal of Electroanalytical Chemistry</i> , 2004, 565, 191-202.	3.8	24
50	Square-wave voltammetry of a cathodic stripping reaction complicated by adsorption of the reacting ligand. <i>Analytica Chimica Acta</i> , 1999, 386, 47-62.	5.4	23
51	Modification of the step-function method for solving linear integral equations and application in modelling of a voltammetric experiment. <i>Journal of Electroanalytical Chemistry</i> , 2003, 545, 29-37.	3.8	23
52	Studying ion transfers across a room temperature ionic liquid-aqueous electrolyte interface driven by redox reactions of lutetium bis(tetra-tert-butylphthalocyaninato). <i>Journal of Electroanalytical Chemistry</i> , 2007, 611, 192-200.	3.8	23
53	Voltammetry Based on Fractional Diffusion. <i>Journal of Physical Chemistry B</i> , 2009, 113, 2794-2799.	2.6	23
54	Mechanisms and kinetics of electrode processes at bismuth and antimony film and bare glassy carbon surfaces under square-wave anodic stripping voltammetry conditions. <i>Electrochimica Acta</i> , 2013, 105, 254-260.	5.2	23

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55	Characterizing electrode reactions by multisampling the current in square-wave voltammetry. <i>Electrochimica Acta</i> , 2016, 213, 520-528.	5.2	23
56	Square-wave protein-film voltammetry: new insights in the enzymatic electrode processes coupled with chemical reactions. <i>Journal of Solid State Electrochemistry</i> , 2019, 23, 2493-2506.	2.5	23
57	Electrocatalysis of the first and second kind: Theoretical and experimental study in conditions of square-wave voltammetry. <i>Electrochimica Acta</i> , 2010, 55, 8696-8703.	5.2	22
58	Modeling of a voltammetric experiment in a limiting diffusion space. <i>Journal of Solid State Electrochemistry</i> , 2011, 15, 197-204.	2.5	21
59	Studying the Thermodynamics and Kinetics of Ion Transfers Across Water-2-nitrophenyloctyl Ether Interface by Means of Organic-solution-modified Electrodes. <i>Journal of Physical Chemistry C</i> , 2008, 112, 15553-15561.	3.1	20
60	Redox kinetic measurements of glutathione at the mercury electrode by means of square-wave voltammetry. The role of copper, cadmium and zinc ions. <i>Bioelectrochemistry</i> , 2004, 65, 69-76.	4.6	19
61	Square-Wave Voltammetry of Cathodic Stripping Reactions. Diagnostic Criteria, Redox Kinetic Measurements, and Analytical Applications. <i>Electroanalysis</i> , 2004, 16, 832-842.	2.9	18
62	Simple Electrochemical Method for Deposition and Voltammetric Inspection of Silver Particles at the Liquid-Liquid Interface of a Thin-Film Electrode. <i>Journal of Physical Chemistry B</i> , 2006, 110, 2812-2820.	2.6	18
63	Measuring the Electrode Kinetics of Vitamin B2 at a Constant Time Window of a Square Wave Voltammetric Experiment. <i>Electroanalysis</i> , 2016, 28, 385-393.	2.9	17
64	Electrochemical Faradaic Spectroscopy. <i>ChemElectroChem</i> , 2018, 5, 187-194.	3.4	17
65	Mercury Beating Heart: Modifications to the Classical Demonstration. <i>Journal of Chemical Education</i> , 2007, 84, 1292.	2.3	16
66	Electrochemical study of the thermodynamics and kinetics of hydrophilic ion transfers across water n-octanol interface. <i>Journal of Solid State Electrochemistry</i> , 2007, 12, 31-39.	2.5	16
67	Application of voltammetry in biomedicine - Recent achievements in enzymatic voltammetry. <i>Macedonian Journal of Chemistry and Chemical Engineering</i> , 2020, 39, 153.	0.6	16
68	Electrochemical study of hydrophilic ion transfers across cholesterol modified water-nitrobenzene interface by means of thin film electrodes. <i>Electrochemistry Communications</i> , 2007, 9, 2489-2495.	4.7	15
69	Cathodic Stripping Voltammetry of Uracil. Experimental and Theoretical Study Under Conditions of Square-Wave Voltammetry. <i>Electroanalysis</i> , 2009, 21, 87-95.	2.9	15
70	Theoretical Treatment of a Cathodic Stripping Mechanism of an Insoluble Salt Coupled with a Chemical Reaction in Conditions of Square Wave Voltammetry. Application to 6-Mercaptopurine-Riboside in the Presence of Ni(II). <i>Electroanalysis</i> , 2011, 23, 1365-1375.	2.9	15
71	Catalytic Adsorptive Stripping Voltammetry of Molybdenum: Redox Kinetic Measurements. <i>Electroanalysis</i> , 2004, 16, 1690-1696.	2.9	14
72	Homogeneous versus Heterogeneous Catalysis at Electrodes Modified with a Thin Organic Layer: Theoretical and Experimental Study under Conditions of Square-Wave Voltammetry. <i>Journal of Physical Chemistry C</i> , 2007, 111, 8283-8290.	3.1	14

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73	Voltammetric study of 2-guanidinobenzimidazole: Electrode mechanism and determination at mercury electrode. Collection of Czechoslovak Chemical Communications, 2011, 76, 1699-1715.	1.0	14
74	Electrochemical deposition of gold at liquid-liquid interfaces studied by thin organic film-modified electrodes. Journal of Solid State Electrochemistry, 2012, 16, 2373-2381.	2.5	14
75	Electrochemical Quantification of Extracellular Local H ₂ O ₂ Kinetics Originating from Single Cells. Antioxidants and Redox Signaling, 2018, 29, 501-517.	5.4	14
76	Paper-based diagnostic platforms and devices. Current Opinion in Electrochemistry, 2021, 27, 100726.	4.8	14
77	Bioactive Phenolic Compounds from Lingonberry (<i>Vaccinium vitis-idaea</i> L.): Extraction, Chemical Characterization, Fractionation and Cellular Antioxidant Activity. Antioxidants, 2022, 11, 467.	5.1	13
78	Analytical solutions of integral equations for modelling of reversible electrode processes under voltammetric conditions. Journal of Electroanalytical Chemistry, 2008, 619-620, 164-168.	3.8	12
79	Chiral recognition based on the kinetics of ion transfers across liquid/liquid interface. Electrochemistry Communications, 2009, 11, 1262-1264.	4.7	12
80	Step potential as a diagnostic tool in square-wave voltammetry of quasi-reversible electrochemical processes. Electrochimica Acta, 2019, 327, 134997.	5.2	12
81	Palladium-graphene hybrid as an electrocatalyst for hydrogen peroxide reduction. Applied Surface Science, 2022, 574, 151633.	6.1	11
82	Assisted Ion Transfer at Organic Film-Modified Electrodes. Journal of Physical Chemistry C, 2012, 116, 22885-22892.	3.1	10
83	Double-sampled differential square-wave voltammetry. Journal of Electroanalytical Chemistry, 2020, 872, 114384.	3.8	10
84	Square-Wave Voltammetry of a Second Order Cathodic Stripping Process Coupled by Adsorption of the Reacting Ligand. Electroanalysis, 2002, 14, 345-355.	2.9	9
85	Square-Wave Voltammetry of the Molybdenum-1,10 Phenanthroline-Fulvic Acids Complex: Redox Kinetics Measurements. Electroanalysis, 2003, 15, 270-277.	2.9	9
86	Electrochemistry of hydrogen peroxide reduction reaction on carbon paste electrodes modified by Ag- and Pt-supported carbon microspheres. Journal of Solid State Electrochemistry, 2019, 23, 1257-1267.	2.5	9
87	Electrode kinetics from a single square-wave voltammogram. Macedonian Journal of Chemistry and Chemical Engineering, 2015, 34, 181.	0.6	9
88	Reversible and Quasireversible Electron Transfer under Conditions of Differential Square-Wave Voltammetry. Journal of Physical Chemistry C, 2022, 126, 5584-5591.	3.1	9
89	Spectra-Structure Correlations in 2,2'-Bipyridine Mercury(II) Saccharinate: Comparison With Mercury(II) Saccharinate And Chloromercury(II) Saccharinate ²⁻ . Spectroscopy Letters, 1994, 27, 691-699.	1.0	8
90	Adsorptive Stripping Voltammetric Behavior of Probucole. Experimental and Theoretical Treatment. Mikrochimica Acta, 2002, 138, 33-42.	5.0	8

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91	Studying the ion transfer across liquid interface of thin organic-film-modified electrodes in the presence of glucose oxidase. <i>Journal of Solid State Electrochemistry</i> , 2015, 19, 2331-2342.	2.5	8
92	Correlation between composition, electrical and electrochemical properties of $\text{LnCo}_{1-x}\text{Cr}_x\text{O}_3$ ($\text{Ln} = \text{Tj, ET, Q, O, O, rg, BT, /Overlgck, 10, Tf, 5}$)	2.5	8
93	Three-phase electrodes: simple and efficient tool for analysis of ion transfer processes across liquid-liquid interface—twenty years on. <i>Journal of Solid State Electrochemistry</i> , 2020, 24, 2575-2583.	2.5	8
94	Multi-frequency analysis in a single square-wave chronoamperometric experiment. <i>Electrochemistry Communications</i> , 2021, 124, 106943.	4.7	8
95	Electrochemical Determination of Antioxidant Capacity of Traditional Homemade Fruit Vinegars Produced with Double Spontaneous Fermentation. <i>Microorganisms</i> , 2021, 9, 1946.	3.6	8
96	The role of adsorption in the catalytic electrode mechanism studied by means of square-wave voltammetry. <i>Journal of Electroanalytical Chemistry</i> , 2005, 578, 25-35.	3.8	7
97	Thiol anchoring and catalysis of gold nanoparticles at the liquid interface of thin-organic film-modified electrodes. <i>Electrochemistry Communications</i> , 2014, 39, 5-8.	4.7	7
98	Voltammetry of chemically deposited Cu_xO electrochromic films, coated with ZnO or TiO_2 electrocatalyst layers. <i>Journal of Solid State Electrochemistry</i> , 2015, 19, 749-756.	2.5	7
99	New insights into the chemistry of Coenzyme Q-0: A voltammetric and spectroscopic study. <i>Bioelectrochemistry</i> , 2016, 111, 100-108.	4.6	7
100	Effect of silver particles deposited at the water–nitrobenzene interface on the voltammetric response of thin-film electrodes. <i>Electrochemistry Communications</i> , 2006, 8, 123-128.	4.7	6
101	Electrochemistry of saccharinate anion at liquid interfaces. <i>Electrochemistry Communications</i> , 2011, 13, 1476-1478.	4.7	6
102	Electrochemistry of coupled electron-ion transfer of a heme-like complex in an artificial organic membrane. <i>Bioelectrochemistry</i> , 2010, 78, 147-154.	4.6	5
103	Simple voltammetric approach for characterization of two-step surface electrode mechanism in protein-film voltammetry. <i>Journal of Solid State Electrochemistry</i> , 2020, 24, 2723-2732.	2.5	4
104	Square-wave Voltammetry and Electrochemical Faradaic Spectroscopy of a Reversible Electrode Reaction: Determination of the Concentration Fraction of the Redox Couple. <i>Electroanalysis</i> , 2021, 33, 1271-1276.	2.9	4
105	Critical aspects in exploring time analysis for the voltammetric estimation of kinetic parameters of surface electrode mechanisms coupled with chemical reactions. <i>Macedonian Journal of Chemistry and Chemical Engineering</i> , 2021, 40, 1.	0.6	4
106	RECENT ADVANCES AND PROSPECTS OF SQUARE-WAVE VOLTAMMETRY. Prilozi: Makedonska Akdemija Na Naukite I Umetnostite Oddelenie Za Prirodno-matematiĀki I BiotehniĀki Nauki, 2018, 39, 103.	0.3	4
107	Characterization of the Surface Electrode Reaction in the Presence of Uniform Interaction: The Case of Mo(VI) Reduction in the Presence of Phenanthroline and an Excess of Fulvic Acids. <i>Electroanalysis</i> , 2003, 15, 1787-1794.	2.9	3
108	Probing the redox activity of T-lymphocytes deposited at electrode surfaces with voltammetric methods. <i>Clinical Chemistry and Laboratory Medicine</i> , 2008, 46, 197-203.	2.3	3

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109	Electroanalysis of the Anthelmintic Drug Bithionol at Edge Plane Pyrolytic Graphite Electrode. <i>Electroanalysis</i> , 2019, 31, 2246-2253.	2.9	3
110	Electroreduction of Bi(III) Ions at a Cyclically Renewable Liquid Silver Amalgam Film Electrode in the Presence of Methionine. <i>Molecules</i> , 2021, 26, 3972.	3.8	3
111	Voltammetric Determination of an Anti-rheumatoid Drug Acemetacin on Graphite Flake Paste Electrode and Glassy Carbon Electrode. <i>Electroanalysis</i> , 2021, 33, 314-322.	2.9	2
112	Square-wave voltammetry of two-step diffusional electrode mechanism coupled with a reversible follow-up chemical reaction. <i>Journal of Solid State Electrochemistry</i> , 2021, 25, 2893-2901.	2.5	2
113	Label-free detection of target proteins using peptide molecular wires as conductive supports. <i>Sensors and Actuators B: Chemical</i> , 2021, 345, 130416.	7.8	2
114	Electrochemical Oxidation of Probuocol in Anhydrous Acetonitrile. <i>Collection of Czechoslovak Chemical Communications</i> , 1999, 64, 1100-1110.	1.0	2
115	An EPR and DFT study on the primary radical formed in hydroxylation reactions of 2,6-dimethoxy-1,4-benzoquinone. <i>Molecular Physics</i> , 2016, 114, 1856-1866.	1.7	1
116	Congratulations to Āebojka Komorsky-LovriĀ and Milivoj LovriĀ. <i>Journal of Solid State Electrochemistry</i> , 2016, 20, 3213-3215.	2.5	1
117	The power and beauty of electrochemistry. <i>Journal of Solid State Electrochemistry</i> , 2020, 24, 2145-2146.	2.5	1
118	Surface Catalytic Mechanism in Square-Wave Voltammetry. , 2001, 13, 1326.		1
119	Surface catalytic mechanism-theoretical study under conditions of differential square-wave voltammetry. <i>Macedonian Journal of Chemistry and Chemical Engineering</i> , 2022, 41, 1-10.	0.6	1
120	Non-enzymatic Amperometric Sensor for H ₂ O ₂ Based on MnCO ₃ Thin Film Electrodes. <i>Croatica Chemica Acta</i> , 2018, 91, .	0.4	0