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	Palladium-graphene hybrid as an electrocatalyst for hydrogen peroxide reduction. Applied Surface Science, 2022, 574, 151633.	6.1	11
2	Bioactive Phenolic Compounds from Lingonberry (Vaccinium vitis-idaea L.): Extraction, Chemical Characterization, Fractionation and Cellular Antioxidant Activity. Antioxidants, 2022, 11, 467.	5.1	13
3	Reversible and Quasireversible Electron Transfer under Conditions of Differential Square-Wave Voltammetry. Journal of Physical Chemistry C, 2022, 126, 5584-5591.	3.1	9
4	Surface catalytic mechanism-theoretical study under conditions of differential square-wave voltammetry. Macedonian Journal of Chemistry and Chemical Engineering, 2022, 41, 1-10.	0.6	1
5	Voltammetric Determination of an Antiâ€rheumatoid Drug Acemetacin on Graphite Flake Paste Electrode and Glassy Carbon Electrode. Electroanalysis, 2021, 33, 314-322.	2.9	2
6	Squareâ€wave Voltammetry and Electrochemical Faradaic Spectroscopy of a Reversible Electrode Reaction: Determination of the Concentration Fraction of the Redox Couple. Electroanalysis, 2021, 33, 1271-1276.	2.9	4
7	Multi-frequency analysis in a single square-wave chronoamperometric experiment. Electrochemistry Communications, 2021, 124, 106943.	4.7	8
8	Critical aspects in exploring time analysis for the voltammetric estimation of kinetic parameters of surface electrode mechanisms coupled with chemical reactions. Macedonian Journal of Chemistry and Chemical Engineering, 2021, 40, 1.	0.6	4
9	Electroreduction of Bi(III) Ions at a Cyclically Renewable Liquid Silver Amalgam Film Electrode in the Presence of Methionine. Molecules, 2021, 26, 3972.	3.8	3
10	Paper-based diagnostic platforms and devices. Current Opinion in Electrochemistry, 2021, 27, 100726.	4.8	14
11	Square-wave voltammetry of two-step diffusional electrode mechanism coupled with a reversible follow-up chemical reaction. Journal of Solid State Electrochemistry, 2021, 25, 2893-2901.	2.5	2
12	Electrochemical Determination of Antioxidant Capacity of Traditional Homemade Fruit Vinegars Produced with Double Spontaneous Fermentation. Microorganisms, 2021, 9, 1946.	3.6	8
13	Label-free detection of target proteins using peptide molecular wires as conductive supports. Sensors and Actuators B: Chemical, 2021, 345, 130416.	7.8	2
14	Double-sampled differential square-wave voltammetry. Journal of Electroanalytical Chemistry, 2020, 872, 114384.	3.8	10
15	The power and beauty of electrochemistry. Journal of Solid State Electrochemistry, 2020, 24, 2145-2146.	2.5	1
16	Three-phase electrodes: simple and efficient tool for analysis of ion transfer processes across liquid-liquid interfaceâ€”twenty years on. Journal of Solid State Electrochemistry, 2020, 24, 2575-2583.	2.5	8
17	Simple voltammetric approach for characterization of two-step surface electrode mechanism in protein-film voltammetry. Journal of Solid State Electrochemistry, 2020, 24, 2723-2732.	2.5	4
18	Application of voltammetry in biomedicine - Recent achievements in enzymatic voltammetry. Macedonian Journal of Chemistry and Chemical Engineering, 2020, 39, 153.	0.6	16

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19	Electroanalysis of the Anthelmintic Drug Bithionol at Edge Plane Pyrolytic Graphite Electrode. Electroanalysis, 2019, 31, 2246-2253.	2.9	3
20	Square-wave protein-film voltammetry: new insights in the enzymatic electrode processes coupled with chemical reactions. Journal of Solid State Electrochemistry, 2019, 23, 2493-2506.	2.5	23
21	Step potential as a diagnostic tool in square-wave voltammetry of quasi-reversible electrochemical processes. Electrochimica Acta, 2019, 327, 134997.	5.2	12
22	Differential Square-Wave Voltammetry. Analytical Chemistry, 2019, 91, 14904-14910.	6.5	25
23	Reviewâ€"Quantification of Hydrogen Peroxide by Electrochemical Methods and Electron Spin Resonance Spectroscopy. Journal of the Electrochemical Society, 2019, 166, G82-G101.	2.9	38
24	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
25	Correlation between composition, electrical and electrochemical properties of LnCo1-xCrxO3 (Ln =) Tj ETQq1 1 0.784314 rgBT /Overl	2.5	8
26	Electrochemical Quantification of Extracellular Local H2O2 Kinetics Originating from Single Cells. Antioxidants and Redox Signaling, 2018, 29, 501-517.	5.4	14
27	Electrochemical Faradaic Spectroscopy. ChemElectroChem, 2018, 5, 187-194.	3.4	17
28	Nonâ€"enzymatic Amperometric Sensor for H2O2 Based on MnCO3 Thin Film Electrodes. Croatica Chemica Acta, 2018, 91, .	0.4	0
29	Square-wave voltammetry. ChemTexts, 2018, 4, 1.	1.9	63
30	RECENT ADVANCES AND PROSPECTS OF SQUARE-WAVE VOLTAMMETRY. Prilozi: Makedonska Akdemija Na Naukite I Umetnostite Oddelenie Za Prirodno-matematiÄki I BiotehniÄki Nauki, 2018, 39, 103.	0.3	4
31	Measuring the Electrode Kinetics of Vitamin B2 at a Constant Time Window of a Square Wave Voltammetric Experiment. Electroanalysis, 2016, 28, 385-393.	2.9	17
32	An EPR and DFT study on the primary radical formed in hydroxylation reactions of 2,6-dimethoxy-1,4-benzoquinone. Molecular Physics, 2016, 114, 1856-1866.	1.7	1
33	Characterizing electrode reactions by multisampling the current in square-wave voltammetry. Electrochimica Acta, 2016, 213, 520-528.	5.2	23
34	New insights into the chemistry of Coenzyme Q-0: A voltammetric and spectroscopic study. Bioelectrochemistry, 2016, 111, 100-108.	4.6	7
35	Congratulations to Åebojka Komorsky-LovriÄ‡ and Milivoj LovriÄ‡. Journal of Solid State Electrochemistry, 2016, 20, 3213-3215.	2.5	1
36	Studying the ion transfer across liquid interface of thin organic-film-modified electrodes in the presence of glucose oxidase. Journal of Solid State Electrochemistry, 2015, 19, 2331-2342.	2.5	8

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37	New aspects of the electrochemical-catalytic (ECâ€™) mechanism in square-wave voltammetry. Electrochimica Acta, 2015, 167, 219-225.	5.2	65
38	Measuring the Electrode Kinetics of Surface Confined Electrode Reactions at a Constant Scan Rate. Electroanalysis, 2015, 27, 67-73.	2.9	29
39	Voltammetry of chemically deposited Cu x O electrochromic films, coated with ZnO or TiO2 electrocatalyst layers. Journal of Solid State Electrochemistry, 2015, 19, 749-756.	2.5	7
40	Electrode kinetics from a single square-wave voltammogram. Macedonian Journal of Chemistry and Chemical Engineering, 2015, 34, 181.	0.6	9
41	Thiol anchoring and catalysis of gold nanoparticles at the liquid interface of thin-organic film-modified electrodes. Electrochemistry Communications, 2014, 39, 5-8.	4.7	7
42	Development of a rapid and simple voltammetric method to determine total antioxidative capacity of edible oils. Food Chemistry, 2013, 138, 116-121.	8.2	26
43	Squareâ€Wave Voltammetry: A Review on the Recent Progress. Electroanalysis, 2013, 25, 2411-2422.	2.9	184
44	Electrode kinetic measurements with square-wave voltammetry at a constant scan rate. Electrochimica Acta, 2013, 114, 667-673.	5.2	41
45	New Approach to Electrode Kinetic Measurements in Square-Wave Voltammetry: Amplitude-Based Quasireversible Maximum. Analytical Chemistry, 2013, 85, 5586-5594.	6.5	76
46	Mechanisms and kinetics of electrode processes at bismuth and antimony film and bare glassy carbon surfaces under square-wave anodic stripping voltammetry conditions. Electrochimica Acta, 2013, 105, 254-260.	5.2	23
47	Hydroxylated derivatives of dimethoxy-1,4-benzoquinone as redox switchable earth-alkaline metal ligands and radical scavengers. Scientific Reports, 2013, 3, 1865.	3.3	40
48	Diagnostics of Anodic Stripping Mechanisms under Square-Wave Voltammetry Conditions Using Bismuth Film Substrates. Analytical Chemistry, 2012, 84, 4429-4436.	6.5	39
49	Assisted Ion Transfer at Organic Film-Modified Electrodes. Journal of Physical Chemistry C, 2012, 116, 22885-22892.	3.1	10
50	Protein film voltammetry: electrochemical enzymatic spectroscopy. A review on recent progress. Journal of Solid State Electrochemistry, 2012, 16, 2315-2328.	2.5	69
51	Electrochemical deposition of gold at liquidâ€“liquid interfaces studied by thin organic film-modified electrodes. Journal of Solid State Electrochemistry, 2012, 16, 2373-2381.	2.5	14
52	Calcium Binding and Transport by Coenzyme Q. Journal of the American Chemical Society, 2011, 133, 9293-9303.	13.7	64
53	Electrochemistry of saccharinate anion at liquid interfaces. Electrochemistry Communications, 2011, 13, 1476-1478.	4.7	6
54	Modeling of a voltammetric experiment in a limiting diffusion space. Journal of Solid State Electrochemistry, 2011, 15, 197-204.	2.5	21

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55	Theoretical Treatment of a Cathodic Stripping Mechanism of an Insoluble Salt Coupled with a Chemical Reaction in Conditions of Square Wave Voltammetry. Application to 6â€Mercaptopurineâ€9â€Dâ€Riboside in the Presence of Ni(II). Electroanalysis, 2011, 23, 1365-1375.	2.9	15
56	Voltammetric study of 2-guanidinobenzimidazole: Electrode mechanism and determination at mercury electrode. Collection of Czechoslovak Chemical Communications, 2011, 76, 1699-1715.	1.0	14
57	Electrocatalysis of the first and second kind: Theoretical and experimental study in conditions of square-wave voltammetry. Electrochimica Acta, 2010, 55, 8696-8703.	5.2	22
58	Electrochemistry of coupled electron-ion transfer of a heme-like complex in an artificial organic membrane. Bioelectrochemistry, 2010, 78, 147-154.	4.6	5
59	The Silver Amalgam Film Electrode in Adsorptive Stripping Voltammetric Determination of Palladium(II) as Its Dimethyldioxime Complex. Electroanalysis, 2009, 21, 36-40.	2.9	43
60	Cathodic Stripping Voltammetry of Uracil. Experimental and Theoretical Study Under Conditions of Squareâ€Wave Voltammetry. Electroanalysis, 2009, 21, 87-95.	2.9	15
61	Chiral recognition based on the kinetics of ion transfers across liquid/liquid interface. Electrochemistry Communications, 2009, 11, 1262-1264.	4.7	12
62	Voltammetry Based on Fractional Diffusion. Journal of Physical Chemistry B, 2009, 113, 2794-2799.	2.6	23
63	Protein-film voltammetry: A theoretical study of the temperature effect using square-wave voltammetry. Biophysical Chemistry, 2008, 137, 49-55.	2.8	25
64	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
65	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. Biophysical Chemistry, 2008, 138, 130-137.	2.8	26
66	Studying the Thermodynamics and Kinetics of Ion Transfers Across Water-2-nitrophenyloctyl Ether Interface by Means of Organic-solution-modified Electrodes. Journal of Physical Chemistry C, 2008, 112, 15553-15561.	3.1	20
67	Probing the redox activity of T-lymphocytes deposited at electrode surfaces with voltammetric methods. Clinical Chemistry and Laboratory Medicine, 2008, 46, 197-203.	2.3	3
68	Square-Wave Voltammetry. Monographs in Electrochemistry, 2007, , .	0.2	198
69	Redox Chemistry of Ca-Transporter 2-Palmitoylhydroquinone in an Artificial Thin Organic Film Membrane. Journal of Physical Chemistry C, 2007, 111, 6068-6076.	3.1	29
70	Homogeneous versus Heterogeneous Catalysis at Electrodes Modified with a Thin Organic Layer:â€‰ Theoretical and Experimental Study under Conditions of Square-Wave Voltammetry. Journal of Physical Chemistry C, 2007, 111, 8283-8290.	3.1	14
71	Mercury Beating Heart: Modifications to the Classical Demonstration. Journal of Chemical Education, 2007, 84, 1292.	2.3	16
72	Electrochemical study of hydrophilic ion transfers across cholesterol modified waterâ€“nitrobenzene interface by means of thin film electrodes. Electrochemistry Communications, 2007, 9, 2489-2495.	4.7	15

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73	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
74	Studying ion transfers across a room temperature ionic liquidâˆ£aqueous electrolyte interface driven by redox reactions of lutetium bis(tetra-tert-butylphthalocyaninato). Journal of Electroanalytical Chemistry, 2007, 611, 192-200.	3.8	23
75	Electrochemical study of the thermodynamics and kinetics of hydrophilic ion transfers across water | n-octanol interface. Journal of Solid State Electrochemistry, 2007, 12, 31-39.	2.5	16
76	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. Langmuir, 2006, 22, 3404-3412.	3.5	36
77	Simple Electrochemical Method for Deposition and Voltammetric Inspection of Silver Particles at the Liquidâ"Liquid Interface of a Thin-Film Electrode. Journal of Physical Chemistry B, 2006, 110, 2812-2820.	2.6	18
78	Effect of silver particles deposited at the waterâˆ£nitrobenzene interface on the voltammetric response of thin-film electrodes. Electrochemistry Communications, 2006, 8, 123-128.	4.7	6
79	Studying the coupled electronâ€“ion transfer reaction at a thin film-modified electrode by means of square-wave voltammetry. Journal of Electroanalytical Chemistry, 2006, 586, 86-97.	3.8	27
80	The role of adsorption in the catalytic electrode mechanism studied by means of square-wave voltammetry. Journal of Electroanalytical Chemistry, 2005, 578, 25-35.	3.8	7
81	Theoretical and experimental study of the catalytic hydrogen evolution reaction in the presence of an adsorbed catalyst by means of square-wave voltammetry. Journal of Electroanalytical Chemistry, 2005, 585, 97-104.	3.8	35
82	Theoretical study of a surface electrode reaction preceded by a homogeneous chemical reaction under conditions of square-wave voltammetry. Electrochemistry Communications, 2005, 7, 515-522.	4.7	35
83	Studying the kinetics of the ion transfer across the liquid|liquid interface by means of thin film-modified electrodes. Electrochemistry Communications, 2005, 7, 1122-1128.	4.7	41
84	Lutetium Bis(tetra-tert-butylphthalocyaninato):Â 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. Journal of Physical Chemistry B, 2005, 109, 1262-1267.	2.6	41
85	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
86	Comparative Study of the Thermodynamics and Kinetics of the Ion Transfer Across the Liquid|Liquid Interface by Means of Three-Phase Electrodes. Journal of Physical Chemistry B, 2005, 109, 13228-13236.	2.6	26
87	Square-Wave Voltammetry of Cathodic Stripping Reactions. Diagnostic Criteria, Redox Kinetic Measurements, and Analytical Applications. Electroanalysis, 2004, 16, 832-842.	2.9	18
88	Catalytic Adsorptive Stripping Voltammetry of Molybdenum: Redox Kinetic Measurements. Electroanalysis, 2004, 16, 1690-1696.	2.9	14
89	EC mechanism of an adsorbed redox couple. Volume vs surface chemical reaction. Journal of Electroanalytical Chemistry, 2004, 565, 191-202.	3.8	24
90	Square-wave thin-film voltammetry: influence of uncompensated resistance and charge transfer kinetics. Journal of Electroanalytical Chemistry, 2004, 566, 351-360.	3.8	38

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91	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. Journal of Electroanalytical Chemistry, 2004, 566, 371-377.	3.8	35
92	Studying electrode mechanism and analytical determination of cocaine and its metabolites at the mercury electrode using square-wave voltammetry. Analytica Chimica Acta, 2004, 512, 49-56.	5.4	31
93	Redox kinetic measurements of glutathione at the mercury electrode by means of square-wave voltammetry. The role of copper, cadmium and zinc ions. Bioelectrochemistry, 2004, 65, 69-76.	4.6	19
94	Charge Transfer Kinetics in Thin-Film Voltammetry. Theoretical Study under Conditions of Square-Wave Voltammetry. Journal of Physical Chemistry B, 2004, 108, 13719-13725.	2.6	41
95	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
96	Determination of the standard Gibbs energies of transfer of cations and anions of amino acids and small peptides across the water nitrobenzene interface. Amino Acids, 2003, 24, 149-154.	2.7	34
97	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. Electroanalysis, 2003, 15, 1787-1794.	2.9	3
98	Square-Wave Voltammetry of the Molybdenum-1,10 Phenanthroline-Fulvic Acids Complex: Redox Kinetics Measurements. Electroanalysis, 2003, 15, 270-277.	2.9	9
99	Modification of the step-function method for solving linear integral equations and application in modelling of a voltammetric experiment. Journal of Electroanalytical Chemistry, 2003, 545, 29-37.	3.8	23
100	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
101	Determination of Standard Gibbs Energies of Transfer of Organic Anions across the Water/Nitrobenzene Interface. Langmuir, 2002, 18, 8000-8005.	3.5	79
102	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
103	Adsorptive Stripping Voltammetric Behavior of Probucole. Experimental and Theoretical Treatment. Mikrochimica Acta, 2002, 138, 33-42.	5.0	8
104	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
105	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
106	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. Electrochemistry Communications, 2002, 4, 814-819.	4.7	40
107	Reduction of iodine at the organic liquid|aqueous solution|graphite electrode three-phase arrangement. Journal of Electroanalytical Chemistry, 2002, 522, 189-198.	3.8	33
108	Surface Catalytic Mechanism in Square-Wave Voltammetry. Electroanalysis, 2001, 13, 1326-1334.	2.9	66

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109	Ohmic drop effects in square-wave voltammetry. Journal of Electroanalytical Chemistry, 2001, 497, 114-124.	3.8	38
110	Square-wave voltammetry of an EC reaction of a partly adsorbed redox couple. Journal of Electroanalytical Chemistry, 2001, 508, 138-149.	3.8	32
111	Theoretical and experimental study of the surface redox reaction involving interactions between the adsorbed particles under conditions of square-wave voltammetry. Journal of Electroanalytical Chemistry, 2001, 515, 91-100.	3.8	32
112	Surface Catalytic Mechanism in Square-Wave Voltammetry. , 2001, 13, 1326.		1
113	Square-wave voltammetry of 5-fluorouracil. Journal of Electroanalytical Chemistry, 2000, 490, 37-47.	3.8	48
114	Square-wave voltammetry of a cathodic stripping reaction complicated by adsorption of the reacting ligand. Analytica Chimica Acta, 1999, 386, 47-62.	5.4	23
115	Quasireversible Maximum in Cathodic Stripping Square-Wave Voltammetry. Electroanalysis, 1999, 11, 984-989.	2.9	40
116	Voltammetry of Organic Microparticles. Mikrochimica Acta, 1999, 132, 67-77.	5.0	57
117	Electrochemical Oxidation of Probucol in Anhydrous Acetonitrile. Collection of Czechoslovak Chemical Communications, 1999, 64, 1100-1110.	1.0	2
118	A Cathodic Stripping Square-Wave Voltammetry of a Second-Order Redox Reaction and Its Application to the Mercury-Cysteine System. Electroanalysis, 1998, 10, 976-984.	2.9	26
119	Split square-wave voltammograms of surface redox reactions. Electroanalysis, 1997, 9, 1283-1287.	2.9	93
120	Spectra-Structure Correlations in 2,2â€²-Bipyridine Mercury(II) Saccharinate: Comparison With Mercury(II) Saccharinate And Chloromercury(II) Saccharinateâˆ—. Spectroscopy Letters, 1994, 27, 691-699.	1.0	8