Angela Molina

List of Publications by Year
in descending order

222 papers	3,494 citations	185998 28 h-index	301761 39 g-index
225 all docs	225 docs citations	225 times ranked	1480 citing authors

#	Article	IF	Citations
1	Recent Advances in Voltammetry. ChemistryOpen, 2015, 4, 224-260.	0.9	130
2	Reproducible flaws unveil electrostatic aspects of semiconductor electrochemistry. Nature Communications, 2017, 8, 2066.	5.8	68
3	Conditions of applicability of the superposition principle in potential multipulse techniques: implications in the study of microelectrodes. Journal of Electroanalytical Chemistry, 1995, 394, 1-6.	1.9	67
4	Pulse Voltammetry in Physical Electrochemistry and Electroanalysis. Monographs in Electrochemistry, 2016, , .	0.2	66
5	Recent advances on the theory of pulse techniques: A mini review. Electrochemistry Communications, 2014, 43, 25-30.	2.3	56
6	Chronoamperometric behaviour of a CE process with fast chemical reactions at spherical electrodes and microelectrodes. Comparison with a catalytic reaction. Electrochemistry Communications, 2006, 8, 1062-1070.	2.3	51
7	Voltammetry of Electrochemically Reversible Systems at Electrodes of Any Geometry: A General, Explicit Analytical Characterization. Journal of Physical Chemistry C, 2011, 115, 4054-4062.	1.5	46
8	Square wave voltammetry for a pseudo-first-order catalytic process at spherical electrodes. Journal of Electroanalytical Chemistry, 2000, 486, 9-15.	1.9	45
9	Analytical solution corresponding to the i/t response to a multipotential step for a catalytic mechanism. Journal of Electroanalytical Chemistry, 1998, 443, 163-167.	1.9	44
10	Theoretical and experimental study of Differential Pulse Voltammetry at spherical electrodes: Measuring diffusion coefficients and formal potentials. Journal of Electroanalytical Chemistry, 2009, 634, 73-81.	1.9	40
11	Studies of ion transfer across liquid membranes by electrochemical techniques. Annual Reports on the Progress of Chemistry Section C, 2012, 108, 126.	4.4	40
12	Analytical theory of the catalytic mechanism in square wave voltammetry at disc electrodes. Physical Chemistry Chemical Physics, 2011, 13, 16748.	1.3	39
13	Comparison between double pulse and multipulse differential techniques. Journal of Electroanalytical Chemistry, 2011, 659, 12-24.	1.9	39
14	Giving physical insight into the Butlerâ€"Volmer model of electrode kinetics: Application of asymmetric Marcusâ€"Hush theory to the study of the electroreductions of 2-methyl-2-nitropropane, cyclooctatetraene and europium(III) on mercury microelectrodes. Journal of Electroanalytical Chemistry, 2012, 672, 45-52.	1.9	39
15	Carglumic acid enhances rapid ammonia detoxification in classical organic acidurias with a favourable risk-benefit profile: a retrospective observational study. Orphanet Journal of Rare Diseases, 2016, 11, 32.	1.2	38
16	Theoretical background for the behavior of molecules containing multiple interacting or noninteracting redox centers in any multipotential step technique and cyclic voltammetry. Journal of Electroanalytical Chemistry, 2005, 576, 9-19.	1.9	37
17	Single Fusion Events at Polarized Liquidâ€"Liquid Interfaces. Angewandte Chemie - International Edition, 2017, 56, 782-785.	7.2	36
18	Quantitative Analysis of Cyclic Voltammetry of Redox Monolayers Adsorbed on Semiconductors: Isolating Electrode Kinetics, Lateral Interactions, and Diode Currents. Analytical Chemistry, 2019, 91, 5929-5937.	3.2	36

#	Article	IF	Citations
19	Analytical solution for the facilitated ion transfer at the interface between two immiscible electrolyte solutions via successive complexation reactions in any voltammetric technique: Application to square wave voltammetry and cyclic voltammetry. Electrochimica Acta, 2013, 106, 244-257.	2.6	35
20	General analytical solution for a catalytic mechanism in potential step techniques at hemispherical microelectrodes: Applications to chronoamperometry, cyclic staircase voltammetry and cyclic linear sweep voltammetry. Journal of Electroanalytical Chemistry, 1998, 454, 15-31.	1.9	34
21	Study of Multicenter Redox Molecules with Square Wave Voltammetry. Journal of Physical Chemistry C, 2007, 111, 12446-12453.	1.5	33
22	The use of differential pulse voltammetries to discriminate between the Butlerâ€“Volmer and the simple Marcusâ€“Hush models for heterogeneous electron transfer: The electro-reduction of europium (III) in aqueous solution. Journal of Electroanalytical Chemistry, 2012, 668, 7-12.	1.9	33
23	Quantitative weaknesses of the Marcus-Hush theory of electrode kinetics revealed by Reverse Scan Square Wave Voltammetry: The reduction of 2-methyl-2-nitropropane at mercury microelectrodes. Chemical Physics Letters, 2011, 512, 133-137.	1.2	31
24	On the meaning of the diffusion layer thickness for slow electrode reactions. Physical Chemistry Chemical Physics, 2013, 15, 2381.	1.3	30
25	Simple Analytical Equations for the Currentâ€“Potential Curves at Microelectrodes: A Universal Approach. Journal of Physical Chemistry C, 2014, 118, 346-356.	1.5	30
26	Strong negative nanocatalysis: oxygen reduction and hydrogen evolution at very small (2 nm) gold nanoparticles. Nanoscale, 2014, 6, 11024-11030.	2.8	29
27	Analytical solutions for fast and straightforward study of the effect of the electrode geometry in transient and steady state voltammetries: Single- and multi-electron transfers, coupled chemical reactions and electrode kinetics. Journal of Electroanalytical Chemistry, 2015, 756, 1-21.	1.9	29
28	Derivative and Differential Voltammetry and Reciprocal Derivative Chronopotentiometry Identical Behavior Verification for Electrode Reversible Processes. Journal of the Electrochemical Society, 2000, 147, 3429.	1.3	28
29	Analytical expressions of the Iâ€“Eâ€“t curves of a CE process with a fast chemical reaction at spherical electrodes and microelectrodes. Electrochemistry Communications, 2006, 8, 1453-1460.	2.3	28
30	Ion transfer across a liquid membrane. General solution for the current-potential response of any voltammetric technique. Physical Chemistry Chemical Physics, 2009, 11, 1159.	1.3	28
31	Characterization of slow charge transfer processes in differential pulse voltammetry at spherical electrodes and microelectrodes. Electrochimica Acta, 2010, 55, 5163-5172.	2.6	28
32	Geometrical Insights of Transient Diffusion Layers. Journal of Physical Chemistry C, 2010, 114, 4093-4099.	1.5	28
33	DC polarography: Effects of electrode sphericity on the currentâ€"Potential curves with EC and CE mechanisms. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1980, 107, 217-231.	0.3	27
34	Further Applications of Cyclic Voltammetry with Spherical Electrodes. Collection of Czechoslovak Chemical Communications, 2005, 70, 133-153.	1.0	27
35	Differential Pulse Voltammetry and Additive Differential Pulse Voltammetry with Solvent Polymeric Membrane Ion Sensors. Analytical Chemistry, 2006, 78, 8129-8133.	3.2	27
36	Electrochemical digital simulations with an exponentially expanding grid: General expressions for higher order approximations to spatial derivatives. Electrochimica Acta, 2009, 54, 1042-1055.	2.6	27

#	Article	IF	Citations
37	Advances in Copper Electrodeposition in Chloride Excess. A Theoretical and Experimental Approach. Electrochimica Acta, 2015, 164, 187-195.	2.6	27
38	D.c. polarography: Current-potential curves for electrode processes involving a preceding first-order chemical reaction. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1979, 102, 277-288.	0.3	26
39	A comparison of Marcusâ€"Hush vs. Butlerâ€"Volmer electrode kinetics using potential pulse voltammetric techniques. Journal of Electroanalytical Chemistry, 2011, 660, 169-177.	1.9	26
40	Analytical Solutions for the Study of Multielectron Transfer Processes by Staircase, Cyclic, and Differential Voltammetries at Disc Microelectrodes. Journal of Physical Chemistry C, 2012, 116, 11470-11479.	1.5	26
41	Singularities of the catalytic mechanism in its route to the steady state. Journal of Electroanalytical Chemistry, 2005, 583, 193-202.	1.9	25
42	Advances in the Study of Ion Transfer at Liquid Membranes with Two Polarized Interfaces by Square Wave Voltammetry. Electroanalysis, 2010, 22, 1634-1642.	1.5	25
43	Electrode modification using porous layers. Maximising the analytical response by choosing the most suitable voltammetry: Differential Pulse vs Square Wave vs Linear sweep voltammetry. Electrochimica Acta, 2012, 73, 3-9.	2.6	25
44	Dc polarography: Current-potential curves with an ECE mechanism. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1980, 110, 49-68.	0.3	24
45	General solutions for the I/t response for reversible processes in the presence of product in a multipotential step experiment at planar and spherical electrodes whose areas increase with any power of time. Journal of Electroanalytical Chemistry, 1999, 466, 8-14.	1.9	24
46	Cyclic Reciprocal Derivative Chronopotentiometry with Power Time Currents Applied to Electrodes Coated with Electroactive Molecular Films. Influence of the Reversibility. Langmuir, 2003, 19, 406-415.	1.6	24
47	Square Wave Voltcoulometry:â€‰ A Tool for the Study of Strongly adsorbed Redox Molecules. Analytical Chemistry, 2007, 79, 7580-7587.	3.2	24
48	Square Wave Voltammetry and Voltcoulometry applied to electrocatalytic reactions. Oxidation of ferrocyanide at a ferrocene modified gold electrode. Journal of Electroanalytical Chemistry, 2009, 634, 90-97.	1.9	24
49	Differential Pulse Voltammetry for Ion Transfer at Liquid Membranes with Two Polarized Interfaces. Analytical Chemistry, 2009, 81, 4220-4225.	3.2	24
50	Analytical expressions for transient diffusion layer thicknesses at non uniformly accessible electrodes. Electrochimica Acta, 2011, 56, 4589-4594.	2.6	24
51	Triple-pulse voltammetry and polarography. Analytical Chemistry, 1993, 65, 215-222.	3.2	23
52	Potentiostatic voltammetry at spherical electrodes and microelectrodes in the presence of product. Journal of Electroanalytical Chemistry, 2008, 617, 14-26.	1.9	23
53	Cyclic Reciprocal Derivative Chronopotentiometry with Exponential Time Currents in the Study of Slow Charge Transfer Processes between Electrodes and Redox Adsorbates. Langmuir, 2001, 17, 5520-5526.	1.6	22
54	Additive differential pulse voltammetry, instead of double differential pulse voltammetry. Electrochemistry Communications, 2001, 3, 324-329.	2.3	22

#	Article	IF	Citations
55	Study of multistep electrode processes in double potential step techniques at spherical electrodes. Journal of Electroanalytical Chemistry, 2003, 546, 97-108.	1.9	22
56	Theory for double potential step chronoamperometry for any potential values at spherical electrodes. Electrochimica Acta, 2009, 54, 2320-2328.	2.6	22
57	Electrochemical digital simulation with highly expanding grid four point discretization: Can Crankâ€"Nicolson uncouple diffusion and homogeneous chemical reactions?. Electrochimica Acta, 2011, 56, 5707-5716.	2.6	22
58	Facilitated ion transfer of protonated primary organic amines studied by square wave voltammetry and chronoamperometry. Analytica Chimica Acta, 2014, 826, 12-20.	2.6	22
59	Application of cyclic reciprocal derivative chronopotentiometry with programmed currents to the study of the reversibility of electrode processes. Electrochimica Acta, 1999, 45, 457-468.	2.6	21
60	Theory for cyclic reciprocal derivative chronopotentiometry with power and exponential programmed currents applied to electrodes coated with reversible electroactive molecular films. Journal of Electroanalytical Chemistry, 2000, 493, 117-122.	1.9	21
61	Analytical solutions of the multipotential pulse quasi-reversible Qâ€"Eâ€"t and Iâ€"Eâ€"t responses of strongly adsorbed redox molecules. Journal of Electroanalytical Chemistry, 2006, 596, 74-86.	1.9	21
62	Catalytic mechanism in cyclic voltammetry at disc electrodes: an analytical solution. Physical Chemistry Chemical Physics, 2011, 13, 14694.	1.3	21
63	Square wave voltammetry at disc microelectrodes for characterization of two electron redox processes. Physical Chemistry Chemical Physics, 2012, 14, 8319.	1.3	21
64	Chargeâ€"potential and capacitanceâ€"potential curves corresponding to reversible redox monolayers. Journal of Electroanalytical Chemistry, 2003, 557, 157-165.	1.9	19
65	Reverse Pulse Voltammetry at spherical electrodes: Simultaneous determination of diffusion coefficients and formal potentials. Application to Room Temperature Ionic Liquids. Journal of Electroanalytical Chemistry, 2009, 634, 1-10.	1.9	19
66	Effects of convergent diffusion and charge transfer kinetics on the diffusion layer thickness of spherical micro- and nanoelectrodes. Physical Chemistry Chemical Physics, 2013, 15, 7106.	1.3	19
67	Two-Electron Transfer Reactions in Electrochemistry for Solution-Soluble and Surface-Confined Molecules: A Common Approach. Journal of Physical Chemistry C, 2014, 118, 12312-12324.	1.5	19
68	The reaction layer at microdiscs: A cornerstone for the analytical theoretical treatment of homogeneous chemical kinetics at non-uniformly accessible microelectrodes. Electrochemistry Communications, 2016, 71, 18-22.	2.3	19
69	Single Fusion Events at Polarized Liquidâ€"Liquid Interfaces. Angewandte Chemie, 2017, 129, 800-803.	1.6	19
70	Current-potential curves with an EE mechanism. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1982, 139, 15-36.	0.3	18
71	Potential step chronoamperometry at hemispherical mercury electrodes: The formation of thallium amalgams and the measurement of the diffusion coefficient of thallium in mercury. Journal of Electroanalytical Chemistry, 2008, 623, 165-169.	1.9	18
72	Mass transport at electrodes of arbitrary geometry. Reversible charge transfer reactions in square wave voltammetry. Russian Journal of Electrochemistry, 2012, 48, 600-609.	0.3	18

#	Article	IF	Citations
73	Title is missing!. Journal of Mathematical Chemistry, 1998, 23, 277-296.	0.7	17
74	Cyclic reciprocal derivative chronopotentiometry. Applications to the detection and characterisation of adsorption processes. Electrochimica Acta, 1999, 45, 761-773.	2.6	17
75	Advantages of the application of programmed currents to microelectrodes. Journal of Electroanalytical Chemistry, 2004, 569, 185-195.	1.9	17
76	Voltammetry of some catamphiphilic drugs with solvent polymeric membrane ion sensors. Journal of Electroanalytical Chemistry, 2007, 605, 157-161.	1.9	17
77	Rigorous analytical solution for a preceding chemical reaction in Normal Pulse Voltammetry at spherical electrodes and microelectrodes. Journal of Electroanalytical Chemistry, 2009, 633, 7-14.	1.9	17
78	Study of Electrochemical Processes with Coupled Homogeneous Chemical Reaction in Differential Pulse Voltammetry at Spherical Electrodes and Microhemispheres. Electroanalysis, 2010, 22, 1857-1866.	1.5	17
79	Pulse polarography. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1981, 124, 201-211.	0.3	16
80	General analytical solution for a reversible i/t response to a double potential step at spherical electrodes in the absence/presence of amalgamation effects. Canadian Journal of Chemistry, 1994, 72, 2378-2387.	0.6	16
81	Physical insights of salt transfer through solvent polymeric membranes by means of electrochemical methods. Physical Chemistry Chemical Physics, 2010, 12, 13296.	1.3	16
82	The transient and stationary behaviour of first-order catalytic mechanisms at disc and hemisphere electrodes. Electrochimica Acta, 2011, 56, 7404-7410.	2.6	16
83	Chronopotentiometry with programmed current at a dropping mercury electrode. Analytical Chemistry, 1984, 56, 887-890.	3.2	15
84	Reversible multistep electrode processes. Consideration of the bulk presence of intermediate species and of the values of the diffusion coefficients in voltammetry. Electrochimica Acta, 2001, 46, 2699-2709.	2.6	15
85	Study of an EE mechanism in additive differential pulse techniques. Electrochemistry Communications, 2002, 4, 457-461.	2.3	15
86	Ion Transfer Square Wave Voltammetry of Ionic Liquid Cations with a Solvent Polymeric Membrane Ion Sensor. Electroanalysis, 2009, 21, 2297-2302.	1.5	15
87	Theory of linear sweep/cyclic voltammetry for the electrochemical reaction mechanism involving a redox catalyst couple attached to a spherical electrode. Electrochimica Acta, 2010, 56, 543-552.	2.6	15
88	Lability of metal complexes at spherical sensors. Dynamic voltammetric measurements. Physical Chemistry Chemical Physics, 2010, 12, 5396.	1.3	15
89	Detection of interaction between redox centers of surface confined molecules by means of Cyclic Voltammetry and Differential Staircase Voltcoulommetry. Journal of Electroanalytical Chemistry, 2012, 664, 53-62.	1.9	15
90	Chronopotentiometry with programmed current at the dropping mercury electrode. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1983, 146, 221-232.	0.3	14

#	Article	IF	Citations
91	Chronopotentiometry with a potential-exponential current-time function at the DME with a preceding blank period. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1990, 278, 35-51.	0.3	14
92	Study of an EE mechanism using double potential step techniques. Journal of Electroanalytical Chemistry, 2002, 528, 159-169.	1.9	14
93	Reversible Surface Two-Electron Transfer Reactions in Square Wave Voltcoulommetry: Application to the Study of the Reduction of Polyoxometalate [PMo₁₂O₄₀]^{3â€“} Immobilized at a Boron Doped Diamond Electrode. Analytical Chemistry, 2013, 85, 8764-8772.	3.2	14
94	Cyclic and Square-Wave Voltammetry at Diffusionally Asymmetric Microscopic and Nanoscopic Liquidâ€“Liquid Interfaces: A Simple Theoretical Approach. Journal of Physical Chemistry C, 2014, 118, 18249-18256.	1.5	14
95	Application of Voltammetric Techniques at Microelectrodes to the Study of the Chemical Stability of Highly Reactive Species. Analytical Chemistry, 2015, 87, 1676-1684.	3.2	14
96	Electrochemical and Computational Study of Ion Association in the Electroreduction of PW₁₂O₄₀^{3â€“}. Journal of Physical Chemistry C, 2017, 121, 26751-26763.	1.5	14
97	General Explicit Mathematical Solution for the Voltammetry of Nonunity Stoichiometry Electrode Reactions: Diagnosis Criteria in Cyclic Voltammetry. Analytical Chemistry, 2020, 92, 3728-3734.	3.2	14
98	Pulse polarography. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1980, 115, 1-14.	0.3	13
99	Dc polarography: Current-potential curves with a parallel ECE mechanism. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1981, 127, 17-35.	0.3	13
100	A unified treatment of reversible electrode processes in voltammetric techniques and chronopotentiometric techniques with programmed current. Electrochemistry Communications, 1999, 1, 477-482.	2.3	13
101	Reciprocal Derivative Chronopotentiometry with Programmed Current: Influence of the Reversibility. Electroanalysis, 2002, 14, 281-291.	1.5	13
102	Steady State Reciprocal Derivative Chronopotentiometry with Programmed Currents at Microelectrodes. Electroanalysis, 2005, 17, 674-684.	1.5	13
103	Analytical Iâ€“E response for several multistep potential techniques applied to an electrocatalytic process at mediator modified electrodes. Electrochimica Acta, 2009, 54, 6154-6160.	2.6	13
104	Application of double pulse theory for hemispherical microelectrodes to the experimental study of slow charge transfer processes. Electrochimica Acta, 2010, 55, 6577-6585.	2.6	13
105	Analytical solution for Reverse Pulse Voltammetry at spherical electrodes: A remarkably sensitive method for the characterization of electrochemical reversibility and electrode kinetics. Journal of Electroanalytical Chemistry, 2010, 648, 67-77.	1.9	13
106	Sensing and characterization of neurotransmitter 2-phenylethylamine based on facilitated ion transfer at solvent polymeric membranes using different electrochemical techniques. Sensors and Actuators B: Chemical, 2016, 222, 930-936.	4.0	13
107	Carbon Support Effects and Mechanistic Details of the Electrocatalytic Activity of Polyoxometalates Investigated via Square Wave Voltacoulometry. ACS Catalysis, 2017, 7, 1501-1511.	5.5	13
108	Pulse polarography. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1981, 121, 85-92.	0.3	12

#	Article	IF	Citations
109	Influence of a preceding chemical reaction on limiting currents in normal pulse polarography and in dc polarography. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1984, 167, 15-42.	0.3	12
110	Chronopotentiometry with non-linear perturbation functions at the DME with a preceding blank period. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1987, 227, 1-10.	0.3	12
111	Derivation of a general theory for reversible multistep electrode processes in voltammetry with constant potential at spherical electrodes. Electrochemistry Communications, 2000, 2, 267-271.	2.3	12
112	Study of the Behavior of an EC Mechanism Using Cyclic and Derivative Chronopotentiometric Techniques with Spherical Electrodes. Electroanalysis, 2004, 16, 938-948.	1.5	12
113	Application of several multipotential step techniques to the study of multicenter molecules at spherical electrodes of any size. Journal of Electroanalytical Chemistry, 2007, 603, 249-259.	1.9	12
114	Non-Nernstian Two-Electron Transfer Reactions for Immobilized Molecules: A Theoretical Study in Cyclic Voltammetry. Journal of Physical Chemistry C, 2013, 117, 5208-5220.	1.5	12
115	A Comprehensive Voltammetric Characterisation of ECE Processes. Electrochimica Acta, 2016, 195, 230-245.	2.6	12
116	Impact experiments at the Interface between Two Immiscible Electrolyte Solutions (ITIES). Current Opinion in Electrochemistry, 2021, 26, 100664.	2.5	12
117	Pulse polarography. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1980, 115, 15-29.	0.3	11
118	Theoretical analysis of current-potential curves for the CE and EC mechanisms with non-nernstian behaviour. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1983, 147, 53-69.	0.3	11
119	Chronopotentiometry with several types of programmed current at most usual electrodes: General study of systems with coupled first-order chemical reactions. Journal of Electroanalytical Chemistry, 1993, 346, 53-71.	1.9	11
120	Reverse Differential Pulse Voltammetry and Polarography. Analytical Chemistry, 1995, 67, 2619-2624.	3.2	11
121	Study of charge transfer processes in a surface confined redox system by means of differential staircase voltacoulommetry. Electrochimica Acta, 2007, 52, 4351-4362.	2.6	11
122	Double potential step chronoamperometry at spherical electrodes and microelectrodes. Electrochemistry Communications, 2008, 10, 376-381.	2.3	11
123	Additive Differential Pulse Voltammetry for the Study of Slow Charge Transfer Processes at Spherical Electrodes. Electroanalysis, 2010, 22, 2784-2793.	1.5	11
124	Electrocatalysis at Modified Microelectrodes: A Theoretical Approach to Cyclic Voltammetry. Journal of Physical Chemistry C, 2010, 114, 14542-14551.	1.5	11
125	Kinetic Effects of the Complexation Reaction in the Facilitated Ion Transfer at Liquid Membrane Systems of One and Two Polarized Interfaces. Theoretical Insights. Journal of Physical Chemistry A, 2012, 116, 6452-6464.	1.1	11
126	General analytical solution for a reversible i-t response to a triple potential step at an SMDE in the absence/presence of amalgamation. Journal of Electroanalytical Chemistry, 1996, 408, 33-45.	1.9	10

#	Article	IF	Citations
127	Application of the superposition principle to the study of a charge transfer reaction in cyclic chronopotentiometry. Part II. Journal of Mathematical Chemistry, 1996, 20, 169-181.	0.7	10
128	General Behavior of theIâ€“E and Î”Iâ€“E Curves Obtained when a Multistep Potential is Applied to an Electroactive Monolayer. Electroanalysis, 2007, 19, 936-944.	1.5	10
129	Study of homogeneous chemical reactions at spherical electrodes and microelectrodes in Additive Differential Pulse Voltammetry. Electrochimica Acta, 2011, 56, 5335-5342.	2.6	10
130	Characterization of the Electrocatalytic Response of Monolayer-Modified Electrodes with Square-Wave Voltammetry. Journal of Physical Chemistry C, 2012, 116, 11206-11215.	1.5	10
131	Differential pulse techniques in weakly supported media: Changes in the kinetics and thermodynamics of electrode processes resulting from the supporting electrolyte concentration. Journal of Electroanalytical Chemistry, 2012, 673, 13-23.	1.9	10
132	An approximate theoretical treatment of ion transfer processes at asymmetric microscopic and nanoscopic liquidâ€“liquid interfaces: Single and double potential pulse techniques. Chemical Physics Letters, 2014, 597, 126-133.	1.2	10
133	Analytical theory for ion transferâ€“electron transfer coupled reactions at redox layerâ€“modified/thick filmâ€“modified electrodes. Current Opinion in Electrochemistry, 2020, 19, 78-87.	2.5	10
134	Chronopotentiometry with non-linear perturbation functions at the DME with a preceding blank period. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1988, 251, 249-266.	0.3	9
135	New methods for the application of an alternating current. Journal of Electroanalytical Chemistry, 1992, 336, 1-23.	1.9	9
136	Double differential pulse voltammetry. Journal of Electroanalytical Chemistry, 1994, 365, 97-105.	1.9	9
137	Application of current reversal chronopotentiometry and cyclic chronopotentiometry to the study of reactant and/or product adsorption at a plane electrode. Electrochimica Acta, 1998, 44, 1263-1272.	2.6	9
138	Study of a Catalytic Mechanism in Additive Differential Pulse Techniques. Electroanalysis, 2003, 15, 254-262.	1.5	9
139	Linear sweep voltammetric and chronopotentiometric charge/potential curves for non reversible redox monolayers. Journal of Electroanalytical Chemistry, 2005, 583, 184-192.	1.9	9
140	Theoretical study of a catalytic mechanism using cyclic and derivative chronopotentiometric techniques with spherical electrodes. Electrochimica Acta, 2006, 51, 2851-2861.	2.6	9
141	Application of a Power Time Current to the Study of a Catalytic Mechanism in Chronopotentiometry and Reciprocal Derivative Chronopotentiometry. Advantages of a Cyclic Stationary Response. Electroanalysis, 2008, 20, 1175-1185.	1.5	9
142	A simple transient approach to dynamic metal speciation: Can independent of time complex voltammetric lability criteria be used?. Electrochemistry Communications, 2009, 11, 562-567.	2.3	9
143	Uptake of Molecular Species by Spherical Droplets and Particles Monitored Voltammetrically. Journal of Physical Chemistry C, 2009, 113, 17215-17222.	1.5	9
144	Electrocatalytic Responses at Mediator Modified Electrodes with Several Cyclic Step and Cyclic Sweep Potential Techniques. Application to the Oxidation of Ascorbate at a Ferrocene-Monolayer Modified Gold Electrode. Analytical Chemistry, 2009, 81, 6830-6836.	3.2	9

#	Article	IF	Citations
145	Variable temperature study of electro-reduction of 3-nitrophenolate via cyclic and square wave voltammetry: Molecular insights into electron transfer processes based on the asymmetric Marcusâ€“Hush model. Electrochimica Acta, 2013, 110, 772-779.	2.6	9
146	Voltammetric speciation studies of systems where the species diffusivities differ significantly. Journal of Solid State Electrochemistry, 2015, 19, 549-561.	1.2	9
147	Effects of Unequal Diffusion Coefficients and Coupled Chemical Equilibria on Square Wave Voltammetry at Disc and Hemispherical Microelectrodes. Electrochimica Acta, 2015, 176, 1044-1053.	2.6	9
148	Chronopotentiometry with programmed current at the dropping mercury electrode. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1983, 146, 243-251.	0.3	8
149	DC polarography: effects of electrode sphericity on the catalytic currents with non-Nernstian behavior. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1986, 199, 37-45.	0.3	8
150	Current reversal chronopotentiometry at the DME. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1990, 284, 21-33.	0.3	8
151	New methods for the application of an alternating current. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1991, 308, 97-112.	0.3	8
152	Multiple potential step at an SMDE in the absence/presence of amalgamation. Journal of Electroanalytical Chemistry, 1997, 422, 55-60.	1.9	8
153	Study of a catalytic mechanism in double potential step techniques at spherical electrodes. Journal of Electroanalytical Chemistry, 1999, 468, 158-169.	1.9	8
154	Chargeâ€“potential and capacitanceâ€“potential curves corresponding to reversible redox Langmuir submonolayers of quinizarine in aqueous acidic solutions. Electrochimica Acta, 2004, 49, 1349-1360.	2.6	8
155	Electrochemical Behavior of Two-Electron Redox Processes by Differential Pulse Techniques at Microelectrodes. Journal of Physical Chemistry C, 2012, 116, 1070-1079.	1.5	8
156	Characterization of follow-up chemical reactions by reverse pulse voltammetry. An analytical solution for spherical electrodes and microelectrodes. Electrochimica Acta, 2013, 87, 416-424.	2.6	8
157	Analytical theoretical approach to the transient and steady state voltammetric response of reaction mechanisms. Linear diffusion and reaction layers at micro- and submicroelectrodes of arbitrary geometry. Journal of Electroanalytical Chemistry, 2016, 782, 59-66.	1.9	8
158	Microelectrode arrays with active-area geometries defined by spatial light modulation. Electrochimica Acta, 2020, 356, 136849.	2.6	8
159	Current-reversal chronopotentiometry at a dropping mercury electrode. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1988, 256, 33-42.	0.3	7
160	Reverse pulse voltammetry and polarography: a general analytical solution. Canadian Journal of Chemistry, 1994, 72, 2369-2377.	0.6	7
161	Study of multistep electrode processes in triple potential step techniques at spherical electrodes. Electrochemistry Communications, 2005, 7, 751-761.	2.3	7
162	Application of chronopotentiometry and derivative chronopotentiometry with an alternating current to the study of a slow charge transfer in a surface confined redox system. Electrochimica Acta, 2006, 51, 4358-4366.	2.6	7

#	Article	IF	Citations
163	Study of catalytic homogeneous electrochemical reactions with reciprocal derivative chronopotentiometry using exponential time currents at spherical electrodes. Electrochimica Acta, 2008, 54, 467-473.	2.6	7
164	Transfer of complexed and dissociated ionic species at soft interfaces: a voltammetric study of chemical kinetic and diffusional effects. Physical Chemistry Chemical Physics, 2016, 18, 10158-10172.	1.3	7
165	Chronopotentiometry with programmed current at an electrode expanding with any power law. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1987, 219, 1-11.	0.3	6
166	New methods for the application of an alternating current. Journal of Electroanalytical Chemistry, 1994, 369, 15-23.	1.9	6
167	Application of a current-time function of the form to hemispherical microelectrodes. Journal of Electroanalytical Chemistry, 1997, 428, 173-183.	1.9	6
168	Some insights into the facilitated ion transfer voltammetric responses at ITIES exhibiting interfacial and bulk membrane kinetic effects. Physical Chemistry Chemical Physics, 2012, 14, 15340.	1.3	6
169	Linear Sweep and Cyclic Voltammetries of Reversible Ion Transfer Processes at Macroâ€•and Microcapillaries under Transient Regime. Electroanalysis, 2015, 27, 93-100.	1.5	6
170	Reverse Pulse Voltammetry at Spherical and Disc Microelectrodes: Characterization of Homogeneous Chemical Equilibria and Their Impact on the Species Diffusivities. Electrochimica Acta, 2015, 169, 300-309.	2.6	6
171	Voltammetry of the aqueous complexationâ€“dissociation coupled to transfer (ACDT) mechanism with charged ligands. Physical Chemistry Chemical Physics, 2016, 18, 17091-17104.	1.3	6
172	Brute force (or not so brute) digital simulation in electrochemistry revisited. Chemical Physics Letters, 2016, 643, 71-76.	1.2	6
173	Microelectrode voltammetry of multi-electron transfers complicated by coupled chemical equilibria: a general theory for the extended square scheme. Physical Chemistry Chemical Physics, 2017, 19, 16464-16476.	1.3	6
174	Characterization of inclusion complexes of organic ions with hydrophilic hosts by ion transfer voltammetry with solvent polymeric membranes. Talanta, 2017, 164, 636-644.	2.9	6
175	Theoretical Treatment of Ion Transfers in Two Polarizable Interface Systems When the Analyte Has Access to Both Interfaces. Analytical Chemistry, 2018, 90, 2088-2094.	3.2	6
176	Guidelines for the Voltammetric Study of Electrode Reactions with Coupled Chemical Kinetics at an Arbitrary Electrode Geometry. Analytical Chemistry, 2019, 91, 6072-6079.	3.2	6
177	Quantitative analysis of the electrochemical performance of multi-redox molecular electrocatalysts. A mechanistic study of chlorate electrocatalytic reduction in presence of a molybdenum polyoxometalate. Journal of Catalysis, 2022, 413, 467-477.	3.1	6
178	Particular time-independent behaviour of the chargeâ€“potential and capacitanceâ€“potential responses of a quasi-reversible redox monolayer with chronopotentiometry with an exponential current. Journal of Electroanalytical Chemistry, 2005, 585, 132-141.	1.9	5
179	Square-wave voltammetry and square-wave voltacoulommetry applied to the study of the electrocatalytic behaviour of surface confined myoglobin. Journal of Solid State Electrochemistry, 2013, 17, 537-546.	1.2	5
180	Analytical approach to the transient and steady-state Cyclic Voltammetry of non-reversible electrode processes. Defining the transition from macro to microelectrodes. Electrochimica Acta, 2016, 213, 911-926.	2.6	5

#	Article	IF	Citations
181	Staircase, cyclic and differential voltammetries of the nine-member square scheme at microelectrodes of any geometry with arbitrary chemical stabilization of the three redox states. Journal of Solid State Electrochemistry, 2016, 20, 3239-3253.	1.2	5
182	General theoretical treatment of simple and facilitated ion transfer processes at the most common liquid/liquid microinterfaces. Sensors and Actuators B: Chemical, 2017, 253, 326-334.	4.0	5
183	Cyclic square wave voltammetry of electrode reactions with nonunity stoichiometry. Journal of Electroanalytical Chemistry, 2020, 873, 114421.	1.9	5
184	Potential-time response for several types of programmed current at most usual electrodes. Theoretical study of CE and EC mechanisms. Collection of Czechoslovak Chemical Communications, 1991, 56, 1-19.	1.0	5
185	Heterogeneous Catalysis of Multipleâ€Electronâ€Transfer Reactions at Nanoparticleâ€Modified Electrodes. ChemElectroChem, 2014, 1, 909-916.	1.7	4
186	Normal Pulse Voltammetry and Steady State Voltammetry of the Square Mechanism at Spherical Microelectrodes. Electroanalysis, 2015, 27, 970-979.	1.5	4
187	Voltammetry at microelectrodes of reversible electrode reactions with complex stoichiometry: A general analytical theoretical framework. Journal of Electroanalytical Chemistry, 2020, 872, 113932.	1.9	4
188	Spectroelectrochemistry for the study of reversible electrode reactions with complex stoichiometries. Electrochemistry Communications, 2021, 123, 106915.	2.3	4
189	Reversal and Cyclic Chronopotentiometry with Exponential Current-Time Functions at Spherical Electrodes. Reversibility Effects and Experimental Verification. Collection of Czechoslovak Chemical Communications, 2004, 69, 1997-2020.	1.0	4
190	Exponential current chronopotentiometry at the dropping mercury electrode. Study of the transition times. Chemical Physics Letters, 1988, 152, 519-522.	1.2	3
191	Chronopotentiometry at the DME with a current-time perturbation of the form I0(t1+t)w, t1 being a preceding blank perio. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1988, 252, 11-20.	0.3	3
192	Application of the superposition principle to the study of multistep electrode processes and systems with several components in chronopotentiometry with programmed current. Part I. Journal of Mathematical Chemistry, 1996, 20, 151-167.	0.7	3
193	Modelling of magnetic anisotropy in the finite element method. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2006, 25, 609-615.	0.5	3
194	Study of electrocatalytic processes at mediator modified interfaces with reciprocal derivative chronopotentiometry with exponential time current. Journal of Electroanalytical Chemistry, 2008, 623, 61-67.	1.9	3
195	Comparison Between a Charge Transfer Process and an Electrocatalytic Process in Cyclic Voltammetry and Cyclic Voltcoulommetry. Application to the Oxidation of Ferrocyanide at a Ferroceneâ€Monolayer Modified Gold Electrode. Electroanalysis, 2010, 22, 106-112.	1.5	3
196	Ion transfer through solvent polymeric membranes driven by an exponential current flux. Physical Chemistry Chemical Physics, 2011, 13, 5127.	1.3	3
197	Application of Current Fluxes to the Characterization of Ion Transfer at Solvent Polymeric Membranes with One and Two Polarized Interfaces. Electroanalysis, 2011, 23, 2188-2196.	1.5	3
198	Reaction layer thickness of a catalytic mechanism under transient and stationary chronopotentiometric conditions. Journal of Electroanalytical Chemistry, 2011, 655, 173-179.	1.9	3

#	Article	IF	Citations
199	Differential double pulse voltammetry at spherical microelectrodes for the characterization of the square mechanism. Journal of Electroanalytical Chemistry, 2015, 741, 140-148.	1.9	3
200	Application of Cyclic Chronopotentiometry to the Study of Slow Charge Transfer Reactions at the DME and the SMDE. Collection of Czechoslovak Chemical Communications, 1996, 61, 1432-1444.	1.0	3
201	Chronopotentiometry at the dropping mercury electrode when the current is a power and/or exponential function of time: study of the second step of an EE mechanism with widely separated standard potentials. Journal of Electroanalytical Chemistry, 1995, 399, 223-228.	1.9	2
202	Discrimination between CEC, CE and EC mechanisms by using a sinusoidal current-time function. Electrochimica Acta, 1997, 42, 1351-1359.	2.6	2
203	Theoretical and Experimental Study of the Homogeneous Catalytic Oxidation of Nicotinamide Adenine Dinucleotide (NADH) at Spherical Gold Electrodes Using Linear Sweep Voltammetry and Chronopotentiometry. Electroanalysis, 2009, 21, 740-748.	1.5	2
204	Some Fundamental Concepts. Monographs in Electrochemistry, 2016, , 1-66.	0.2	2
205	Double Transfer Voltammetry in Two-Polarizable Interface Systems: Effects of the Lipophilicity and Charge of the Target and Compensating Ions. Analytical Chemistry, 2018, 90, 3402-3408.	3.2	2
206	Differential double pulse voltammetry (DDPV) and additive differential pulse voltammetry (ADPV) applied to the study of the ACDT mechanism. Journal of Solid State Electrochemistry, 2020, 24, 2819-2831.	1.2	2
207	Chronopotentiometric Study of EC Mechanism Duringthe First Cycle of Alternating Current. Collection of Czechoslovak Chemical Communications, 1997, 62, 709-728.	1.0	2
208	The pathways towards the steady state E/t and I/E responses when using an alternating current. Journal of Electroanalytical Chemistry, 2005, 580, 179-192.	1.9	1
209	Transient and steady state behaviour of electrochemical reactions preceded by a chemical step at spherical electrodes: A chronopotentiometric study. Journal of Electroanalytical Chemistry, 2010, 645, 74-80.	1.9	1
210	Value of the exponential currentâ€"time perturbation for achieving stationary polarisation curves at planar and spherical electrodes of any size. Electrochimica Acta, 2010, 55, 9010-9018.	2.6	1
211	Study of ion transfer through liquid membrane systems by Current Reversal Chronopotentiometric techniques. Journal of Electroanalytical Chemistry, 2011, 661, 219-225.	1.9	1
212	Single Pulse Voltammetry: Reversible Electrochemical Reactions. Monographs in Electrochemistry, 2016, , 67-131.	0.2	1
213	Multipulse and Sweep Voltammetries I. Monographs in Electrochemistry, 2016, , 317-374.	0.2	1
214	Reprint of â€œAnalytical theoretical approach to the transient and steady state voltammetric response of reaction mechanisms. Linear diffusion and reaction layers at micro- and submicroelectrodes of arbitrary geometryâ€. Journal of Electroanalytical Chemistry, 2017, 793, 104-112.	1.9	1
215	Kinetic Influence of Surface Charge Transfer Reactions Preceded by Nonâ€Electrochemical Processes on the Response in Cyclic Voltammetry. ChemElectroChem, 2019, 6, 473-484.	1.7	1
216	Double Pulse Voltammetries. Monographs in Electrochemistry, 2016, , 229-316.	0.2	1

#	Article	IF	Citations
217	Chronopotentiometry with an Alternating Currentat Cylindrical Microelectrodes. Collection of Czechoslovak Chemical Communications, 1996, 61, 973-984.	1.0	1
218	Multipulse and Sweep Voltammetries II. Monographs in Electrochemistry, 2016, , 375-462.	0.2	0
219	Differential Multipulse and Square Wave Voltammetries. Monographs in Electrochemistry, 2016, , 463-580.	0.2	0
220	Single Pulse Voltammetry: Non-reversible and Complex Electrochemical Reactions. Monographs in Electrochemistry, 2016, , 133-227.	0.2	0
221	Insights into the Voltammetry of Cavity Microelectrodes Filled with Metal Powders: The Value of Square Wave Voltammetry. ChemElectroChem, 2021, 8, 735-744.	1.7	0
222	Regeneration Mechanism Studied by Potential-Time Response to Sinusoidal Current-Time Function. Collection of Czechoslovak Chemical Communications, 1997, 62, 1511-1526.	1.0	0