

Edmund J F Dickinson

List of Publications by Citations

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46
papers

1,918
citations

23
h-index

43
g-index

49
ext. papers

2,134
ext. citations

4.9
avg, IF

5.16
L-index

#	Paper	IF	Citations
46	Understanding Voltammetry 2011 ,		222
45	Voltammetric selectivity conferred by the modification of electrodes using conductive porous layers or films: The oxidation of dopamine on glassy carbon electrodes modified with multiwalled carbon nanotubes. <i>Sensors and Actuators B: Chemical</i> , 2010 , 145, 417-427	8.5	200
44	COMSOL Multiphysics [®] : Finite element software for electrochemical analysis. A mini-review. <i>Electrochemistry Communications</i> , 2014 , 40, 71-74	5.1	144
43	Effects of thin-layer diffusion in the electrochemical detection of nicotine on basal plane pyrolytic graphite (BPPG) electrodes modified with layers of multi-walled carbon nanotubes (MWCNT-BPPG). <i>Sensors and Actuators B: Chemical</i> , 2010 , 144, 153-158	8.5	142
42	How Much Supporting Electrolyte Is Required to Make a Cyclic Voltammetry Experiment Quantitatively Diffusional? A Theoretical and Experimental Investigation. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 11157-11171	3.8	135
41	Investigating the Mechanism and Electrode Kinetics of the Oxygen Superoxide (O ₂ O ₂ ⁻) Couple in Various Room-Temperature Ionic Liquids at Gold and Platinum Electrodes in the Temperature Range 298±18 K. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 17811-17823	3.8	82
40	Influence of the diffuse double layer on steady-state voltammetry. <i>Journal of Electroanalytical Chemistry</i> , 2011 , 661, 198-212	4.1	63
39	Diffuse Double Layer at Nanoelectrodes. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 17585-17589	3.8	63
38	New electrochemical methods. <i>Analytical Chemistry</i> , 2012 , 84, 669-84	7.8	55
37	Nanoparticle-modified electrodes. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 11208-21	3.6	54
36	Analysis of commercial general engineering finite element software in electrochemical simulations. <i>Journal of Electroanalytical Chemistry</i> , 2010 , 638, 76-83	4.1	48
35	The Butler-Volmer equation in electrochemical theory: Origins, value, and practical application. <i>Journal of Electroanalytical Chemistry</i> , 2020 , 872, 114145	4.1	47
34	The electroneutrality approximation in electrochemistry. <i>Journal of Solid State Electrochemistry</i> , 2011 , 15, 1335-1345	2.6	46
33	Theory of Chronoamperometry at Cylindrical Microelectrodes and Their Arrays. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 11637-11644	3.8	41
32	On the estimation of the diffuse double layer of carbon nanotubes using classical theory: Curvature effects on the Gouy-Chapman limit. <i>Chemical Physics Letters</i> , 2010 , 485, 167-170	2.5	39
31	Chronoamperometry and cyclic voltammetry at conical electrodes, microelectrodes, and electrode arrays: theory. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 4059-66	3.4	39
30	Redox systems obeying Marcus-Hush-Hidsey electrode kinetics do not obey the Randles-Sevcik equation for linear sweep voltammetry. <i>Journal of Electroanalytical Chemistry</i> , 2012 , 664, 73-79	4.1	35

29	Quantitative Voltammetry in Weakly Supported Media. Chronoamperometric Studies on Diverse One Electron Redox Couples Containing Various Charged Species: Dissecting Diffusional and Migrational Contributions and Assessing the Breakdown of Electroneutrality. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 2227-2236	3.8	35
28	Cyclic voltammetry in the absence of excess supporting electrolyte offers extra kinetic and mechanistic insights: comproportionation of anthraquinone and the anthraquinone dianion in acetonitrile. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 9242-5	16.4	35
27	Diffusional Cyclic Voltammetry at Electrodes Modified with Random Distributions of Electrocatalytic Nanoparticles: Theory. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 11149-11156	3.8	33
26	Nanoparticle-electrode collision studies: Brownian motion and the timescale of nanoparticle oxidation. <i>Chemical Physics Letters</i> , 2012 , 528, 44-48	2.5	31
25	Dynamic theory of liquid junction potentials. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 187-97	3.4	30
24	Electrochemical random-walk theory. <i>Journal of Electroanalytical Chemistry</i> , 2011 , 655, 1-8	4.1	28
23	Electrochemical Oxidation of Hydrogen Sulfide at Platinum Electrodes in Room Temperature Ionic Liquids: Evidence for Significant Accumulation of H ₂ S at the Pt/1-Butyl-3-methylimidazolium Trifluoromethylsulfonate Interface. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 10997-11002	3.8	22
22	Volatilisation of ferrocene from ionic liquids: kinetics and mechanism. <i>Chemical Communications</i> , 2011 , 47, 7083-5	5.8	21
21	The Butler-Volmer Equation for Polymer Electrolyte Membrane Fuel Cell (PEMFC) Electrode Kinetics: A Critical Discussion. <i>Journal of the Electrochemical Society</i> , 2019 , 166, F221-F231	3.9	20
20	Modeling Diffusion Effects for a Stepwise Two-Electron Reduction Process at a Microelectrode: Study of the Reduction of para-Quaterphenyl in Tetrahydrofuran and Inference of Fast Comproportionation of the Dianion with the Neutral Parent Molecule. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 16019-16029	3.8	19
19	Cyclic voltammetry in weakly supported media: The reduction of the cobaltocenium cation in acetonitrile. Comparison between theory and experiment. <i>Journal of Electroanalytical Chemistry</i> , 2010 , 650, 135-142	4.1	18
18	How well does simple RC circuit analysis describe diffuse double layer capacitance at smooth micro- and nanoelectrodes?. <i>Journal of Electroanalytical Chemistry</i> , 2011 , 655, 23-31	4.1	17
17	The zero-field approximation for weakly supported voltammetry: A critical evaluation. <i>Chemical Physics Letters</i> , 2010 , 497, 178-183	2.5	17
16	The kinetics of ferrocene volatilisation from an ionic liquid. <i>ChemPhysChem</i> , 2011 , 12, 1708-13	3.2	16
15	Dynamic theory of type 3 liquid junction potentials: formation of multilayer liquid junctions. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 4521-8	3.4	15
14	Dynamics of ion transfer potentials at liquid-liquid interfaces. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 6909-21	3.4	15
13	Modelling the Proton-Conductive Membrane in Practical Polymer Electrolyte Membrane Fuel Cell (PEMFC) Simulation: A Review. <i>Membranes</i> , 2020 , 10,	3.8	14
12	Quantitative Voltammetry in Weakly Supported Media. Two Electron Transfer, Chronoamperometry of Electrodeposition and Stripping for Cadmium at Microhemispherical Mercury Electrodes. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 15320-15325	3.8	13

11	Voltammetry Involving Amalgam Formation and Anodic Stripping in Weakly Supported Media: Theory and Experiment. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 7120-7127	3.8	12
10	Dynamic theory of membrane potentials. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 10763-73	3.4	11
9	Dynamics of ion transfer potentials at liquid-liquid interfaces: the case of multiple species. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 12429-40	3.4	9
8	Theory of diffusion to an annular microband electrode. <i>Journal of Electroanalytical Chemistry</i> , 2009 , 625, 40-46	4.1	7
7	Cyclic Voltammetry in the Absence of Excess Supporting Electrolyte Offers Extra Kinetic and Mechanistic Insights: Comproportionation of Anthraquinone and the Anthraquinone Dianion in Acetonitrile. <i>Angewandte Chemie</i> , 2010 , 122, 9428-9431	3.6	7
6	Influence of HS on the pitting corrosion of 316L stainless steel in oilfield brine. <i>Corrosion Science</i> , 2021 , 182,	6.8	7
5	Volatilisation of substituted ferrocene compounds of different sizes from room temperature ionic liquids: a kinetic and mechanistic study. <i>New Journal of Chemistry</i> , 2012 , 36, 774	3.6	6
4	Improved Operando Raman Cell Configuration for Commercially-Sourced Electrodes in Alkali-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2021 , 168, 070541	3.9	3
3	Dynamic simulation of the moving boundary method for measuring transference numbers. <i>Chemical Physics Letters</i> , 2011 , 513, 136-138	2.5	1
2	Impact of hydroxide ion/halide ion concentration ratio on crack electrochemistry. <i>Corrosion Engineering Science and Technology</i> , 2020 , 55, 574-578	1.7	0
1	Nanoscale characteristics of electrochemical systems. <i>Frontiers of Nanoscience</i> , 2021 , 18, 1-48	0.7	