Daniel A Buttry

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Measurement of interfacial processes at electrode surfaces with the electrochemical quartz crystal microbalance. Chemical Reviews, 1992, 92, 1355-1379.	47.7	1,295
2	Determination of ion populations and solvent content as functions of redox state and pH in polyaniline. Journal of the American Chemical Society, 1987, 109, 3574-3581.	13.7	509
3	Effects of electron exchange and single-file diffusion on charge propagation in Nafion films containing redox couples. Journal of the American Chemical Society, 1983, 105, 685-689.	13.7	279
4	Electrochemical quartz crystal microbalance studies of adsorption and desorption of self-assembled monolayers of alkyl thiols on gold. Journal of the American Chemical Society, 1993, 115, 12391-12397.	13.7	268
5	Electrochemical applications of the quartz crystal microbalance. Analytical Chemistry, 1989, 61, 1147A-1154A.	6.5	256
6	Stable silicon-ionic liquid interface for next-generation lithium-ion batteries. Nature Communications, 2015, 6, 6230.	12.8	212
7	New strategies for electrocatalysis at polymer-coated electrodes. Reduction of dioxygen by cobalt porphyrins immobilized in Nafion coatings on graphite electrodes. Journal of the American Chemical Society, 1984, 106, 59-64.	13.7	169
8	Electrochemical control of the luminescent lifetime of Ru(bpy)32+* incorporated in Nafion films on graphite electrodes. Journal of the American Chemical Society, 1982, 104, 4824-4829.	13.7	141
9	Comparison of Oxygen Reduction Reaction at Silver Nanoparticles and Polycrystalline Silver Electrodes in Alkaline Solution. Journal of Physical Chemistry C, 2012, 116, 10656-10663.	3.1	137
10	Liquid Thermoelectrics: Review of Recent And Limited New Data of Thermogalvanic Cell Experiments. Nanoscale and Microscale Thermophysical Engineering, 2013, 17, 304-323.	2.6	137
11	Ionic interactions play a major role in determining the electrochemical behavior of self-assembling viologen monolayers. Langmuir, 1990, 6, 1319-1322.	3.5	132
12	Environmental effects on redox potentials of viologen groups embedded in electroactive self-assembled monolayers. Langmuir, 1992, 8, 2491-2496.	3.5	117
13	Designer Ionic Liquids for Reversible Electrochemical Deposition/Dissolution of Magnesium. Journal of the American Chemical Society, 2016, 138, 641-650.	13.7	115
14	Recent advances in electrochemical DNA hybridization sensors. Analyst, The, 2010, 135, 1817.	3.5	105
15	Electrochemical Capture and Release of Carbon Dioxide. ACS Energy Letters, 2017, 2, 454-461.	17.4	100
16	Mass measurements using isotopically labeled solvents reveal the extent of solvent transport during redox in thin films on electrodes. Journal of the American Chemical Society, 1988, 110, 6258-6260.	13.7	97
17	NMR Characterization of Phosphonic Acid Capped SnO2Nanoparticles. Chemistry of Materials, 2007, 19, 2519-2526.	6.7	92
18	Dimerized ï€-Complexes in Self-Assembled Monolayers Containing Viologens: An Origin of Unusual Wave Shapes in the Voltammetry of Monolayers. Langmuir, 1996, 12, 5921-5933.	3.5	91

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19	EQCM studies of film growth, redox cycling, and charge trapping of n-doped and p-doped poly(thiophene). Chemistry of Materials, 1991, 3, 872-878.	6.7	89
20	Dimercaptanâ€Polyaniline Cathodes for Lithium Batteries: Addition of a Polypyrrole Derivative for Rapid Charging. Journal of the Electrochemical Society, 1995, 142, L182-L184.	2.9	85
21	lonic interactions in electroactive self-assembled monolayers of ferrocene species. Langmuir, 1991, 7, 2196-2202.	3.5	79
22	Determination of Mg ²⁺ Speciation in a TFSI [–] -Based lonic Liquid With and Without Chelating Ethers Using Raman Spectroscopy. Journal of Physical Chemistry B, 2015, 119, 7003-7014.	2.6	79
23	The amplifying effect of natural convection on power generation of thermogalvanic cells. International Journal of Heat and Mass Transfer, 2014, 78, 423-434.	4.8	70
24	Immobilization of amines at carbon fiber surfaces. Carbon, 1999, 37, 1929-1940.	10.3	69
25	Electrochemical Capture and Release of Carbon Dioxide Using a Disulfide–Thiocarbonate Redox Cycle. Journal of the American Chemical Society, 2017, 139, 1033-1036.	13.7	67
26	A SECM Study of Heterogeneous Redox Activity at AA2024 Surfaces. Journal of the Electrochemical Society, 2003, 150, B413.	2.9	65
27	NMR Characterization of Ligand Binding and Exchange Dynamics in Triphenylphosphine-Capped Gold Nanoparticles. Journal of Physical Chemistry C, 2009, 113, 16387-16393.	3.1	65
28	Oxygen Reduction Reaction in Ionic Liquids: The Addition of Protic Species. Journal of Physical Chemistry C, 2013, 117, 8683-8690.	3.1	64
29	A Vibrational Spectroscopic Study of the Structure of Electroactive Self-Assembled Monolayers of Viologen Derivatives. Langmuir, 1994, 10, 2235-2240.	3.5	63
30	Lithium Electroinsertion into an Inorganic-Organic Hybrid Material Composed from V[sub 2]O[sub 5] and Polyaniline. Journal of the Electrochemical Society, 2002, 149, A546.	2.9	59
31	Atomistic insights into dislocation-based mechanisms of void growth and coalescence. Journal of the Mechanics and Physics of Solids, 2011, 59, 1858-1871.	4.8	57
32	Electrochemical Solid-State Phase Transformations of Silver Nanoparticles. Journal of the American Chemical Society, 2012, 134, 5610-5617.	13.7	57
33	New Organicâ^'Inorganic Nanocomposite Materials for Energy Storage Applications. Langmuir, 1999, 15, 669-673.	3.5	55
34	Reversible Electrochemical Trapping of Carbon Dioxide Using 4,4′-Bipyridine That Does Not Require Thermal Activation. Journal of Physical Chemistry Letters, 2015, 6, 4943-4946.	4.6	54
35	Adsorption and micellization influence the electrochemistry of redox surfactants derived from ferrocene. Langmuir, 1989, 5, 671-678.	3.5	53
36	Mechanism of Action of Corrosion Protection Coating for AA2024-T3 Based on Poly(aniline)-Poly(methylmethacrylate) Blend. Journal of the Electrochemical Society, 2005, 152, B45.	2.9	47

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37	Electrochemical and Raman studies on a hybrid organic–inorganic nanocomposite of vanadium oxide and a sulfonated polyaniline. Electrochimica Acta, 2001, 46, 3555-3562.	5.2	44
38	Electrochemical and Spectroscopic Investigation of the Influence of Acidâ^Base Chemistry on the Redox Properties of 2,5-Dimercapto-1,3,4-thiadiazole. Journal of Physical Chemistry B, 1997, 101, 2861-2866.	2.6	43
39	Chemical and Electrochemical Characterization of a Novel Nanocomposite Formed from V[sub 2]O[sub 5] and Poly(N-propane sulfonic acid aniline), a Self-Doped Polyaniline. Journal of the Electrochemical Society, 2000, 147, 2437.	2.9	41
40	Organosulfur/Conducting Polymer Composite Cathodes. Journal of the Electrochemical Society, 2002, 149, A939.	2.9	39
41	Size-Dependent Underpotential Deposition of Copper on Palladium Nanoparticles. Journal of Physical Chemistry C, 2015, 119, 16927-16933.	3.1	37
42	Redox surfactants are chemical probes of electrode surface functionalization derived from disulfide immobilization on gold. Langmuir, 1991, 7, 380-388.	3.5	35
43	An Investigation of the Effect of Pyridine Derivatives on the Oxidative Polymerization Process of 2,5-Dimercapto-1,3,4-thiadiazole and Its Disulfide Dimer. Journal of Physical Chemistry B, 1998, 102, 1444-1449.	2.6	35
44	EQCM measurements of solvent transport during Li+ intercalation in V2O5 xerogel films. Electrochimica Acta, 2000, 45, 3757-3764.	5.2	33
45	Study of charge compensation during the redox process of self-doped polyaniline in aqueous media. Journal of the Brazilian Chemical Society, 2000, 11, 32.	0.6	31
46	Electrocatalysis of Anodic Oxygenâ€Transfer Reactions: Application of an Electrochemical Quartz Crystal Microbalance to a Study of Pure and Bismuthâ€Doped Betaâ€Lead Dioxide Film Electrodes. Journal of the Electrochemical Society, 1990, 137, 3071-3078.	2.9	30
47	Comparison of V[sub 2]O[sub 5] Xerogels Prepared by the Vanadate and Alkoxide Routes Using X-Ray Absorption and other Methods. Journal of the Electrochemical Society, 2003, 150, A721.	2.9	30
48	Electrochemical Polymerization and Depolymerization of 2,5-Dimercapto-1,3,4-thiadiazole. QCM and Spectroscopic Analysis. Journal of Physical Chemistry B, 1997, 101, 7556-7562.	2.6	28
49	Spectroscopic identification of 2,5-dimercapto-1,3,4-thiadiazole and its lithium salt and dimer forms. Journal of Power Sources, 1997, 68, 739-742.	7.8	27
50	Electrochemical Synthesis of Yttrium Oxide Nanotubes. Chemistry of Materials, 2006, 18, 4541-4543.	6.7	26
51	Electrochemical/Piezoelectric Dual-Response Biosensor for Heme Ligands. Analytical Chemistry, 1997, 69, 887-893.	6.5	25
52	Electrochemical Detection of DNA Hybridization via Bis-Intercalation of a Naphthylimide-Functionalized Viologen Dimer. Analytical Chemistry, 2007, 79, 6922-6926.	6.5	23
53	A Mechanistic Study of the Influence of Proton Transfer Processes on the Behavior of Thiol/Disulfide Redox Couples. Journal of Physical Chemistry B, 1999, 103, 2239-2247.	2.6	22
54	Measurement of electric fields at rough metal surfaces by electrochromism of fluorescent probe molecules embedded in self-assembled monolayers. Journal of the American Chemical Society, 1992, 114, 10085-10086.	13.7	20

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55	Development and evaluation of surface treatments to enhance the fiber-matrix adhesion in PAN-based carbon fiber/liquid crystal polymer composites. Part I: Coupling agent and amine surface treatments. Polymer Composites, 1993, 14, 292-300.	4.6	19
56	Visualization of Cathode Activity for Fe-Rich and Cu-Rich Intermetallic Particles via Cathodic Corrosion from Dioxygen Reduction at Aluminum Alloy 2024-T3. Electrochemical and Solid-State Letters, 2004, 7, B1.	2.2	19
57	Characterization of Mismatched DNA Hybridization via a Redox-Active Diviologen Bound in the PNAâ^'DNA Minor Groove. Langmuir, 2009, 25, 3839-3844.	3.5	19
58	Size-Dependent Anodic Dissolution of Water-Soluble Palladium Nanoparticles. Journal of Physical Chemistry C, 2013, 117, 26783-26789.	3.1	19
59	Control of access to surfaces with self-assembling surfactants bearing fluorocarbon chains. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1994, 84, 129-140.	4.7	18
60	Mixed Cation and Anion Transport during Redox Cycling of a Self-Doped Polyaniline Derivative in Nonaqueous Media. Journal of the Electrochemical Society, 2000, 147, 4217.	2.9	18
61	Minor Groove Binding of a Novel Tetracationic Diviologen. Langmuir, 2006, 22, 10821-10829.	3.5	18
62	Sensors Based on Biomolecules Immobilized on the Piezoelectric Quartz Crystal Microbalance. ACS Symposium Series, 1989, , 237-246.	0.5	13
63	Anodic oxidation of pitch-precursor carbon fibers in ammonium sulfate solutions: Batch screening treatment results. Composites Science and Technology, 1992, 44, 351-359.	7.8	10
64	Characterization of Zr(IV)–Phosphonate Thin Films Which Inhibit O[sub 2] Reduction on AA2024-T3. Journal of the Electrochemical Society, 2009, 156, C322.	2.9	9
65	Repassivation behaviour of stressed aluminium electrodes in aqueous chloride solutions. Corrosion Science, 2012, 54, 10-16.	6.6	9
66	Influence of Halide Ions on Anodic Oxidation of Ethanol on Palladium. Electrocatalysis, 2016, 7, 201-206.	3.0	8
67	Improving Seebeck coefficient of thermoelectrochemical cells by controlling ligand complexation at metal redox centers. Applied Physics Letters, 2021, 118, .	3.3	7
68	Dioxygen Reduction Affects Surface Oxide Growth and Dissolution on AA2024-T3. Journal of the Electrochemical Society, 2007, 154, C458.	2.9	6
69	Experimental, Simulation, and Computational Study of the Interaction of Reduced Forms of N â€Methylâ€4,4'â€Bipyridinium with CO 2. ChemElectroChem, 2020, 7, 469-475.	3.4	6
70	An Electrochemical and Fourier Transform Infrared Spectroscopic Study of the Aqueous Oxidation of Quadricyclane and Nortricyclanol. Journal of the Electrochemical Society, 2000, 147, 266.	2.9	5
71	Direct evidence of redox mediation between a poly(aniline-co-N-propanesulfonic acid aniline) and 2,5-dimercapto-1,3,4-thiadiazole by UV-visible reflectance spectroscopy. Journal of the Brazilian Chemical Society, 2002, 13, 449.	0.6	5
72	Electrochemistry of ATP-capped silver nanoparticles in layer-by-layer multilayer films. Journal of Nanoparticle Research, 2014, 16, 1.	1.9	5

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73	Electrochemical Cycling of Polycrystalline Silver Nanoparticles Produces Single-Crystal Silver Nanocrystals. Langmuir, 2017, 33, 13490-13495.	3.5	4
74	High Surface Area Silica Particles as a New Vehicle for Ligand Immobilization on the Quartz Crystal Microbalance. ACS Symposium Series, 1994, , 71-77.	0.5	3
75	Transient modeling of electrochemically assisted CO2 capture and release. Journal of Electroanalytical Chemistry, 2017, 799, 156-166.	3.8	3
76	INHIBITION OF O2 REDUCTION ON INTERMETALLIC PARTICLES AT THE SURFACE OF AA2024 BY ADSORBED PHOSPHONATES. Corrosion Reviews, 2007, 25, 545-554.	2.0	1
77	<i>Response</i> : Acoustic Chemical Sensors. Science, 1991, 251, 1372-1372.	12.6	0