Derek Pletcher

List of Publications by Year
in descending order

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64 papers	4,072 citations	101543 36 h-index	114465 63 g-index
68 all docs	68 docs citations	68 times ranked	3289 citing authors

#	Article	IF	Citations
1	Cubane Electrochemistry: Direct Conversion of Cubane Carboxylic Acids to Alkoxy Cubanes Using the Hoferâ€“Moest Reaction under Flow Conditions. Chemistry - A European Journal, 2020, 26, 374-378.	3.3	34
2	A design of flow electrolysis cell for â€˜Homeâ€™ fabrication. Reaction Chemistry and Engineering, 2020, 5, 712-718.	3.7	21
3	Electrolysis cells for laboratory organic synthesis. Current Opinion in Electrochemistry, 2020, 24, 1-5.	4.8	10
4	The influence of non-ionic surfactants on electrosynthesis in extended channel, narrow gap electrolysis cells. Electrochemistry Communications, 2019, 100, 6-10.	4.7	7
5	Organic electrosynthesis â€“ A road to greater application. A mini review. Electrochemistry Communications, 2018, 88, 1-4.	4.7	52
6	Flow Electrolysis Cells for the Synthetic Organic Chemistry Laboratory. Chemical Reviews, 2018, 118, 4573-4591.	47.7	355
7	Electrochemical Deprotection of para-Methoxybenzyl Ethers in a Flow Electrolysis Cell. Organic Letters, 2017, 19, 2050-2053.	4.6	39
8	Electrosynthesis in extended channel length microfluidic electrolysis cells. Journal of Flow Chemistry, 2016, 6, 191-197.	1.9	45
9	An extended channel length microflow electrolysis cell for convenient laboratory synthesis. Electrochemistry Communications, 2016, 73, 63-66.	4.7	44
10	N-Heterocyclic Carbene-Mediated Microfluidic Oxidative Electrosynthesis of Amides from Aldehydes. Organic Letters, 2016, 18, 1198-1201.	4.6	76
11	N-Heterocyclic Carbene-Mediated Oxidative Electrosynthesis of Esters in a Microflow Cell. Organic Letters, 2015, 17, 3290-3293.	4.6	52
12	The cathodic reduction of carbon dioxideâ€”What can it realistically achieve? A mini review. Electrochemistry Communications, 2015, 61, 97-101.	4.7	91
13	A Microflow Electrolysis Cell for Laboratory Synthesis on the Multigram Scale. Organic Process Research and Development, 2015, 19, 1424-1427.	2.7	74
14	Understanding the Performance of a Microfluidic Electrolysis Cell for Routine Organic Electrosynthesis. Journal of Flow Chemistry, 2015, 5, 31-36.	1.9	54
15	TEMPOâ€Mediated Electrooxidation of Primary and Secondary Alcohols in a Microfluidic Electrolytic Cell. ChemSusChem, 2012, 5, 326-331.	6.8	76
16	The methoxylation of N-formylpyrrolidine in a microfluidic electrolysis cell for routine synthesis. Electrochimica Acta, 2012, 69, 197-202.	5.2	44
17	Electrodeposited lead dioxide coatings. Chemical Society Reviews, 2011, 40, 3879.	38.1	310
18	A simple and inexpensive microfluidic electrolysis cell. Electrochimica Acta, 2011, 56, 4322-4326.	5.2	44

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19	A novel flow battery: A lead acid battery based on an electrolyte with soluble lead(II) Part VIII. The cycling of a 10cmÃ—10cm flow cell. Journal of Power Sources, 2010, 195, 1731-1738.	7.8	79
20	A novel flow battery: A lead acid battery based on an electrolyte with soluble lead(II). Part IX: Electrode and electrolyte conditioning with hydrogen peroxide. Journal of Power Sources, 2010, 195, 2975-2978.	7.8	70
21	A novel flow battery: A lead acid battery based on an electrolyte with soluble lead(II). Electrochimica Acta, 2009, 54, 4688-4695.	5.2	118
22	Studies of the anodic dissolution of aluminium alloys containing tin and gallium using imaging with a high-speed camera. Electrochimica Acta, 2009, 54, 6668-6673.	5.2	19
23	Further studies of the anodic dissolution in sodium chloride electrolyte of aluminium alloys containing tin and gallium. Journal of Power Sources, 2009, 193, 895-898.	7.8	29
24	The influence of Pt particle size on the surface oxidation of titania supported platinum. Physical Chemistry Chemical Physics, 2009, 11, 1564.	2.8	44
25	The Electrochemistry and Electrochemical Technology of Nitrate. Modern Aspects of Electrochemistry, 2009, , 1-61.	0.2	14
26	The influence of support and particle size on the platinum catalysed oxygen reduction reaction. Physical Chemistry Chemical Physics, 2009, 11, 9141.	2.8	64
27	The electrodeposition and electrocatalytic properties of copperâ€“palladium alloys. Journal of Electroanalytical Chemistry, 2008, 614, 24-30.	3.8	51
28	The study of aluminium anodes for high power density Al/air batteries with brine electrolytes. Journal of Power Sources, 2008, 178, 445-455.	7.8	174
29	A novel flow batteryâ€"A lead-acid battery based on an electrolyte with soluble lead(II). Journal of Power Sources, 2008, 180, 621-629.	7.8	102
30	A novel flow batteryâ€"A lead-acid battery based on an electrolyte with soluble lead(II). Journal of Power Sources, 2008, 180, 630-634.	7.8	106
31	The catalysis of carbon dioxide hydration by acetate ion. Journal of Electroanalytical Chemistry, 2008, 619-620, 83-86.	3.8	6
32	CO Oxidation on Gold in Acidic Environments:â€‰ Particle Size and Substrate Effects. Journal of Physical Chemistry C, 2007, 111, 17044-17051.	3.1	59
33	The fabrication of lead dioxide layers on a titanium substrate. Electrochimica Acta, 2006, 52, 786-793.	5.2	50
34	A novel flow batteryâ€"A lead acid battery based on an electrolyte with soluble lead(II). Journal of Power Sources, 2005, 149, 96-102.	7.8	120
35	A novel flow batteryâ€"A lead acid battery based on an electrolyte with soluble lead(II). Journal of Power Sources, 2005, 149, 103-111.	7.8	105
36	The Influence of Deposition Conditions and Dopant Ions on the Structure, Activity, and Stability of Lead Dioxide Anode Coatings. Journal of the Electrochemical Society, 2005, 152, D97.	2.9	23

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37	Mesoporous palladiumâ€"the surface electrochemistry of palladium in aqueous sodium hydroxide and the cathodic reduction of nitrite. Physical Chemistry Chemical Physics, 2005, 7, 3545.	2.8	55
38	A novel flow battery: A lead acid battery based on an electrolyte with soluble lead(ii). Physical Chemistry Chemical Physics, 2004, 6, 1773.	2.8	179
39	A novel flow battery: A lead acid battery based on an electrolyte with soluble lead(ii). Physical Chemistry Chemical Physics, 2004, 6, 1779.	2.8	162
40	Ytterbium(II) as a mediator in organic electrosynthesisâ€"possibilities and limitations. Electrochimica Acta, 2003, 48, 1065-1071.	5.2	14
41	Speciation and electrochemistry of brines containing acetate ion and carbon dioxide. Journal of Electroanalytical Chemistry, 2002, 538-539, 285-297.	3.8	35
42	Electrode coatings from sprayed titanium dioxide nanoparticles â€“ behaviour in NaOH solutions. Electrochemistry Communications, 2001, 3, 390-394.	4.7	35
43	Platinum catalysed nanoporous titanium dioxide electrodes in H2SO4 solutions. Electrochemistry Communications, 2001, 3, 395-399.	4.7	59
44	The Synthesis of Diaryliodonium Salts by the Anodic Oxidation of Aryl Iodide/Arene Mixtures. Journal of the Electrochemical Society, 2001, 148, D37.	2.9	13
45	The electrosynthesis of diaryliodonium salts. Tetrahedron Letters, 2000, 41, 8995-8998.	1.4	30
46	The reduction of carbonyl compounds at carbon electrodes in acidic water/methanol mixtures. Electrochemistry Communications, 2000, 2, 141-144.	4.7	10
47	Approaches to the Integration of Electrochemistry and Biotechnology II. The Horseradish Peroxidase Catalyzed Oxidation of 2,4,6â€Trimethylphenol by Electrogenerated Hydrogen Peroxide. Journal of the Electrochemical Society, 1999, 146, 1088-1092.	2.9	11
48	A microelectrode study of the catalysis of alkyl halide reduction by Co(II)(salen). Journal of Electroanalytical Chemistry, 1999, 464, 168-175.	3.8	52
49	A microelectrode study of the influence of electrolyte on the reduction of quinones in aprotic solvents. Journal of the Chemical Society, Faraday Transactions, 1998, 94, 3445-3450.	1.7	21
50	Electrosyntheses from Aromatic Aldehydes in a Flow Cell. Part I. The Reduction of Benzaldehyde.. Acta Chemica Scandinavica, 1998, 52, 23-31.	0.7	15
51	Electrosyntheses from Aromatic Aldehydes in a Flow Cell. Part II. The Cross-Coupling of Benzaldehydes to Unsymmetrical Diols.. Acta Chemica Scandinavica, 1998, 52, 32-36.	0.7	7
52	Influence of electrolyte concentration on coupled chemical reactions Part 1Reduction of CoII(salen)in aprotic solvents. Journal of the Chemical Society, Faraday Transactions, 1997, 93, 3669-3675.	1.7	16
53	Approaches to the Integration of Electrochemistry and Biotechnology: I. Enzymeâ€Modified Reticulated Vitreous Carbon Electrodes. Journal of the Electrochemical Society, 1997, 144, 3705-3710.	2.9	38
54	Microelectrode procedures for the determination of silicate and phosphate in waters - fundamental studies. Electroanalysis, 1997, 9, 1311-1317.	2.9	39

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55	The reduction of bromate at molybdenum oxide film cathodes. Electroanalysis, 1996, 8, 1105-1111.	2.9	16
56	Electrolytic removal of cupric ions from dilute liquors using reticulated vitreous carbon cathodes. Journal of Chemical Technology and Biotechnology, 1992, 55, 147-155.	3.2	23
57	Electrode materials for electrosynthesis. Chemical Reviews, 1990, 90, 837-865.	47.7	232
58	Amperometric sensor for carbon dioxide: design, characteristics, and performance. Analytical Chemistry, 1989, 61, 577-580.	6.5	29
59	The Rates of Oxidation of â€‰HCOOHâ€‰ and â€‰DCOOHâ€‰ at Lead Adatomâ€Covered Pt Anodes. Journal of the Electrochemical Society, 1984, 131, 957-958.	2.9	2
60	Electrocatalysis: present and future. Journal of Applied Electrochemistry, 1984, 14, 403-415.	2.9	188
61	A Potential Step Study of the Influence of Metal Adatoms and Solution pH on the Rate of Formic Acid Oxidation at Pt Electrodes. Journal of the Electrochemical Society, 1983, 130, 2187-2192.	2.9	37
62	The Oxidation of Alcohols at a Nickel Anode in Alkaline tâ€Butanol/Water Mixtures. Journal of the Electrochemical Society, 1977, 124, 203-206.	2.9	81
63	The Partial Anodic Oxidation of Aliphatic Hydrocarbons. Chemie-Ingenieur-Technik, 1972, 44, 187-191.	0.8	8
64	Bioelectrosynthesisâ€“Electrolysis and Electrodialysis. , 0, , 327-358.		0