Guy Denuault

List of Publications by Year in descending order

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CUV DENIJALILT

#	Article	IF	CITATIONS
1	Detection of Hydrogen Peroxide at Mesoporous Platinum Microelectrodes. Analytical Chemistry, 2002, 74, 1322-1326.	6.5	351
2	Scanning electrochemical microscopy - a new technique for the characterization and modification of surfaces. Accounts of Chemical Research, 1990, 23, 357-363.	15.6	314
3	Direct determination of diffusion coefficients by chronoamperometry at microdisk electrodes. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1991, 308, 27-38.	0.1	272
4	Scanning Electrochemical Microscopy (SECM):Â An Investigation of the Effects of Tip Geometry on Amperometric Tip Response. Journal of Physical Chemistry B, 1998, 102, 9946-9951.	2.6	238
5	Scanning electrochemical microscopy: theory and application of the transient (chronoamperometric) SECM response. Analytical Chemistry, 1991, 63, 1282-1288.	6.5	110
6	Development of a reliable microelectrode dissolved oxygen sensor. Sensors and Actuators B: Chemical, 2007, 123, 344-351.	7.8	68
7	Scanning electrochemical microscopy: Probing the ingress and egress of protons from a polyaniline film. Journal of Electroanalytical Chemistry, 1993, 354, 331-339.	3.8	67
8	Fabrication and Characterization of Nanostructured Pd Hydride pH Microelectrodes. Analytical Chemistry, 2006, 78, 265-271.	6.5	67
9	Scanning electrochemical microscope (SECM) study of the relationship between proton concentration and electronic charge as a function of ionic strength during the oxidation of polyaniline. Journal of Electroanalytical Chemistry, 1994, 379, 399-406.	3.8	63
10	Studies of the electrodeposition of platinum metal from a hexachloroplatinic acid bath. Journal of Electroanalytical Chemistry, 2009, 633, 327-332.	3.8	58
11	Mesoporous palladium—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
12	Electrodeposition of highly ordered macroporous iridium oxide through self-assembled colloidal templates. Journal of Materials Chemistry, 2009, 19, 3855.	6.7	51
13	Scanning electrochemical microscopy (SECM): localized glucose oxidase immobilization via the direct electrochemical microspotting of polypyrrole–biotin films. Electrochemistry Communications, 2005, 7, 135-140.	4.7	48
14	Three-dimensional random walk simulations of diffusion controlled electrode processes: (I) A hemisphere, disc and growing hemisphere. Journal of Electroanalytical Chemistry, 1997, 433, 167-173.	3.8	46
15	Scanning electrochemical microscopy (SECM) study of pH changes at Pt electrode surfaces in Na2So4 solution (pH 4) under potential cycling conditions. Journal of the Chemical Society, Faraday Transactions, 1996, 92, 3791.	1.7	41
16	Steady-State Voltammetry for Hydroxide Ion Oxidation in Aqueous Solutions in the Absence of and with Varying Concentrations of Supporting Electrolyte. Analytical Chemistry, 1999, 71, 811-818.	6.5	40
17	The behavior of microdisk and microring electrodes. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1989, 263, 225-236.	0.1	39
18	An Instrument for Simultaneous EQCM Impedance and SECM Measurements. Analytical Chemistry, 2000, 72, 349-356.	6.5	39

GUY DENUAULT

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19	Electrochemical current-sensing atomic force microscopy in conductive solutions. Nanotechnology, 2013, 24, 115501.	2.6	34
20	A simple, experiment-based model of the initial self-discharge of lithium-sulphur batteries. Journal of Power Sources, 2016, 306, 323-328.	7.8	34
21	Scanning electrochemical microscopy (SECM): Study of the formation and reduction of oxides on platinum electrode surfaces in Na2SO4 solution (pH = 7). Journal of Electroanalytical Chemistry, 1998, 443, 273-282.	3.8	33
22	Three-dimensional random walk simulation of diffusion controlled electrode processes: (II) Arrays of growing hemispheres. Journal of Electroanalytical Chemistry, 1997, 433, 175-180.	3.8	32
23	Detection of Hydroxide Ions in Aqueous Solutions by Steady-State Voltammetry. Electroanalysis, 2001, 13, 289-294.	2.9	32
24	Voltammetry of hydroxide ion in aqueous solutions on gold microelectrodes. Journal of Electroanalytical Chemistry, 1998, 449, 5-7.	3.8	30
25	Scanning Electrochemical Microscopy:Â Approach Curves for Sphere-Cap Scanning Electrochemical Microscopy Tips. Analytical Chemistry, 2007, 79, 2952-2956.	6.5	30
26	High Throughput Electrochemical Observation of Structural Phase Changes in LiFe[sub 1â^'x]Mn[sub x]PO[sub 4] during Charge and Discharge. Journal of the Electrochemical Society, 2010, 157, A381.	2.9	30
27	Influence of the Surface Termination of Boron-Doped Diamond Electrodes on Oxygen Reduction in Basic Medium. Electrochemical and Solid-State Letters, 2007, 10, G43.	2.2	29
28	Anion complexation and electrochemical behaviour of ferrocene-appended amido-pyrrole cleftsElectronic supplementary information (ESI) available: 1H and 13C NMR spectra of 1 and 2, 1H NMR titrations of 1 and 2 with various putative anionic guests and with chloride following ferrocene CH resonances. See http://www.rsc.org/suppdata/nj/b2/b202989h/. New Journal of Chemistry, 2002, 26,	2.8	27
29	STI-515. Steady-State Voltammetry of Hydroxide Ion Oxidation in Aqueous Solutions Containing Ammonia. Analytical Chemistry, 2002, 74, 3290-3296.	6.5	25
30	Calibrationless determination of cadmium, lead and copper in rain samples by stripping voltammetry at mercury microelectrodes. Analytica Chimica Acta, 2002, 452, 65-75.	5.4	25
31	A study of the preconcentration and stripping voltammetry of Pb(ii) at carbon electrodes. Analyst, The, 2000, 125, 1135-1138.	3.5	24
32	Atomic Force Microscopy-Scanning Electrochemical Microscopy: Influence of Tip Geometry and Insulation Defects on Diffusion Controlled Currents at Conical Electrodes. Analytical Chemistry, 2011, 83, 2971-2977.	6.5	24
33	Scanning electrochemical microscopy (SECM) : study of the adsorption and desorption of hydrogen on platinum electrodes in Na2SO4 solution (pH = 7). Journal of Electroanalytical Chemistry, 1996, 418, 99-107.	3.8	23
34	Steady state simulation of electrode processes with a new error bounded adaptive finite element algorithm. Electrochemistry Communications, 2003, 5, 647-656.	4.7	20
35	Mono- and bis-ferrocene 2,5-diamidopyrrole clefts: solid-state assembly, anion binding and electrochemical properties. Polyhedron, 2003, 22, 699-709.	2.2	19
36	Electrochemical analysis of nanostructured iron oxides using cyclic voltammetry and scanning electrochemical microscopy. Electrochimica Acta, 2016, 222, 1326-1334.	5.2	19

GUY DENUAULT

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37	Classical Experiments. , 2007, , 431-469.		14
38	Scanning electrochemical microscopy: Diffusion controlled approach curves for conical AFM-SECM tips. Electrochemistry Communications, 2013, 27, 29-33.	4.7	14
39	MD simulation of water at imperfect platinum surfaces: Part I structure. Journal of Electroanalytical Chemistry, 1997, 433, 153-159.	3.8	13
40	Scanning Electrochemical Microscopy: Using the Potentiometric Mode of SECM To Study the Mixed Potential Arising from Two Independent Redox Processes. Analytical Chemistry, 2013, 85, 8341-8346.	6.5	13
41	Sampled-Current Voltammetry at Microdisk Electrodes: Kinetic Information from Pseudo Steady State Voltammograms. Analytical Chemistry, 2014, 86, 9917-9923.	6.5	13
42	Nanostructured Pd Hydride Microelectrodes: In Situ Monitoring of pH Variations in a Porous Medium. Analytical Chemistry, 2014, 86, 5758-5765.	6.5	13
43	Goldâ \in gold junction electrodes:the disconnection method. Chemical Record, 2012, 12, 143-148.	5.8	11
44	Field assessment of a new membrane-free microelectrode dissolved oxygen sensor for water column profiling. Limnology and Oceanography: Methods, 2008, 6, 180-189.	2.0	10
45	The Contribution of Microelectrodes to Electroanalytical Chemistry: From Reaction Mechanisms and Scanning Electrochemical Microscopy to Ocean Sensors. Israel Journal of Chemistry, 2010, 50, 374-381.	2.3	10
46	An Electrochemical Study of the Influence of <i>Marinobacter aquaeolei</i> on the Alteration of Hydrothermal Chalcopyrite (CuFeS ₂) and Pyrite (FeS ₂) under Circumneutral Conditions. Geomicrobiology Journal, 2014, 31, 373-382.	2.0	10
47	Oxygen as redox mediator in scanning electrochemical microscopy. Application to the study of localised acid attack of marble. Annali Di Chimica, 2002, 92, 153-61.	0.6	10
48	Electron tunnelling at the Pt(100) water interface. Journal of Electroanalytical Chemistry, 1997, 437, 37-44.	3.8	9
49	Sampled current voltammetry for kinetic studies on materials unsuitable for rotating discs or microelectrodes: Application to the oxygen reduction reaction in acidic medium. Electrochimica Acta, 2020, 362, 136946.	5.2	8
50	MD simulation of water at imperfect platinum surfaces. III. Hydrogen bonding. Journal of Electroanalytical Chemistry, 1998, 450, 159-164.	3.8	7
51	An Analytical Differential Resistance Pulse System Relying on a Time Shift Signal Analysis–Applications in Coulter Counting. ACS Sensors, 2019, 4, 2190-2195.	7.8	7
52	Generation and <i>In Situ</i> Electrochemical Detection of Transient Nanobubbles. Journal of Physical Chemistry C, 2020, 124, 7544-7549.	3.1	5
53	MD simulation of water at imperfect platinum surfaces: Part 2 electrostatics. Journal of Electroanalytical Chemistry, 1997, 433, 161-166.	3.8	4
54	Solid molybdenum nitride microdisc electrodes: Fabrication, characterisation, and application to the reduction of peroxodisulfate. Electrochimica Acta, 2019, 293, 184-190.	5.2	4

GUY DENUAULT

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55	The Influence of the Oxygen Reduction Reaction (ORR) on Pt Oxide Electrochemistry. ChemElectroChem, 2021, 8, 3525-3532.	3.4	4
56	The in situ electrochemical detection of microbubble oscillations during motion through a channel. Physical Chemistry Chemical Physics, 2019, 21, 24802-24807.	2.8	2
57	The electron transfer kinetics of adsorbed species derived by sampled current voltammetry. Journal of Electroanalytical Chemistry, 2021, 882, 115021.	3.8	2
58	Detection of Hydroxide Ions in Aqueous Solutions by Steady-State Voltammetry. Electroanalysis, 2001, 13, 289-294.	2.9	1
59	A Description of the Scanning Electrochemical Microscope (SECM) and of Its Applications. , 1995, , 69-82.		1
60	Au(001) Thin Films: Impact of Structure and Mosaicity on the Oxygen Reduction Reaction in Alkaline Medium. ACS Catalysis, 2022, 12, 1664-1676.	11.2	1
61	Potentiometric Probes. , 2001, , .		0