

Guy Denuault

List of Publications by Year in descending order

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61
papers

2,644
citations

201674

27
h-index

182427

51
g-index

62
all docs

62
docs citations

62
times ranked

2600
citing authors

#	ARTICLE	IF	CITATIONS
1	Au(001) Thin Films: Impact of Structure and Mosaicity on the Oxygen Reduction Reaction in Alkaline Medium. <i>ACS Catalysis</i> , 2022, 12, 1664-1676.	11.2	1
2	The electron transfer kinetics of adsorbed species derived by sampled current voltammetry. <i>Journal of Electroanalytical Chemistry</i> , 2021, 882, 115021.	3.8	2
3	The Influence of the Oxygen Reduction Reaction (ORR) on Pt Oxide Electrochemistry. <i>ChemElectroChem</i> , 2021, 8, 3525-3532.	3.4	4
4	Sampled current voltammetry for kinetic studies on materials unsuitable for rotating discs or microelectrodes: Application to the oxygen reduction reaction in acidic medium. <i>Electrochimica Acta</i> , 2020, 362, 136946.	5.2	8
5	Generation and <i>In Situ</i> Electrochemical Detection of Transient Nanobubbles. <i>Journal of Physical Chemistry C</i> , 2020, 124, 7544-7549.	3.1	5
6	An Analytical Differential Resistance Pulse System Relying on a Time Shift Signal Analysis – Applications in Coulter Counting. <i>ACS Sensors</i> , 2019, 4, 2190-2195.	7.8	7
7	The in situ electrochemical detection of microbubble oscillations during motion through a channel. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 24802-24807.	2.8	2
8	Solid molybdenum nitride microdisc electrodes: Fabrication, characterisation, and application to the reduction of peroxodisulfate. <i>Electrochimica Acta</i> , 2019, 293, 184-190.	5.2	4
9	Electrochemical analysis of nanostructured iron oxides using cyclic voltammetry and scanning electrochemical microscopy. <i>Electrochimica Acta</i> , 2016, 222, 1326-1334.	5.2	19
10	A simple, experiment-based model of the initial self-discharge of lithium-sulphur batteries. <i>Journal of Power Sources</i> , 2016, 306, 323-328.	7.8	34
11	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. <i>Geomicrobiology Journal</i> , 2014, 31, 373-382.	2.0	10
12	Sampled-Current Voltammetry at Microdisk Electrodes: Kinetic Information from Pseudo Steady State Voltammograms. <i>Analytical Chemistry</i> , 2014, 86, 9917-9923.	6.5	13
13	Nanostructured Pd Hydride Microelectrodes: In Situ Monitoring of pH Variations in a Porous Medium. <i>Analytical Chemistry</i> , 2014, 86, 5758-5765.	6.5	13
14	Scanning electrochemical microscopy: Diffusion controlled approach curves for conical AFM-SECM tips. <i>Electrochemistry Communications</i> , 2013, 27, 29-33.	4.7	14
15	Scanning Electrochemical Microscopy: Using the Potentiometric Mode of SECM To Study the Mixed Potential Arising from Two Independent Redox Processes. <i>Analytical Chemistry</i> , 2013, 85, 8341-8346.	6.5	13
16	Electrochemical current-sensing atomic force microscopy in conductive solutions. <i>Nanotechnology</i> , 2013, 24, 115501.	2.6	34
17	Gold-gold junction electrodes: the disconnection method. <i>Chemical Record</i> , 2012, 12, 143-148.	5.8	11
18	Atomic Force Microscopy-Scanning Electrochemical Microscopy: Influence of Tip Geometry and Insulation Defects on Diffusion Controlled Currents at Conical Electrodes. <i>Analytical Chemistry</i> , 2011, 83, 2971-2977.	6.5	24

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19	The Contribution of Microelectrodes to Electroanalytical Chemistry: From Reaction Mechanisms and Scanning Electrochemical Microscopy to Ocean Sensors. <i>Israel Journal of Chemistry</i> , 2010, 50, 374-381.	2.3	10
20	High Throughput Electrochemical Observation of Structural Phase Changes in $\text{LiFe}_{1-x}\text{Mn}_x\text{PO}_4$ during Charge and Discharge. <i>Journal of the Electrochemical Society</i> , 2010, 157, A381.	2.9	30
21	Studies of the electrodeposition of platinum metal from a hexachloroplatinic acid bath. <i>Journal of Electroanalytical Chemistry</i> , 2009, 633, 327-332.	3.8	58
22	Electrodeposition of highly ordered macroporous iridium oxide through self-assembled colloidal templates. <i>Journal of Materials Chemistry</i> , 2009, 19, 3855.	6.7	51
23	Field assessment of a new membrane-free microelectrode dissolved oxygen sensor for water column profiling. <i>Limnology and Oceanography: Methods</i> , 2008, 6, 180-189.	2.0	10
24	Classical Experiments. , 2007, , 431-469.		14
25	Scanning Electrochemical Microscopy: Approach Curves for Sphere-Cap Scanning Electrochemical Microscopy Tips. <i>Analytical Chemistry</i> , 2007, 79, 2952-2956.	6.5	30
26	Influence of the Surface Termination of Boron-Doped Diamond Electrodes on Oxygen Reduction in Basic Medium. <i>Electrochemical and Solid-State Letters</i> , 2007, 10, G43.	2.2	29
27	Development of a reliable microelectrode dissolved oxygen sensor. <i>Sensors and Actuators B: Chemical</i> , 2007, 123, 344-351.	7.8	68
28	Fabrication and Characterization of Nanostructured Pd Hydride pH Microelectrodes. <i>Analytical Chemistry</i> , 2006, 78, 265-271.	6.5	67
29	Scanning electrochemical microscopy (SECM): localized glucose oxidase immobilization via the direct electrochemical microspotting of polypyrrole-biotin films. <i>Electrochemistry Communications</i> , 2005, 7, 135-140.	4.7	48
30	Mesoporous palladium—the surface electrochemistry of palladium in aqueous sodium hydroxide and the cathodic reduction of nitrite. <i>Physical Chemistry Chemical Physics</i> , 2005, 7, 3545.	2.8	55
31	Mono- and bis-ferrocene 2,5-diamidopyrrole clefts: solid-state assembly, anion binding and electrochemical properties. <i>Polyhedron</i> , 2003, 22, 699-709.	2.2	19
32	Steady state simulation of electrode processes with a new error bounded adaptive finite element algorithm. <i>Electrochemistry Communications</i> , 2003, 5, 647-656.	4.7	20
33	Steady-State Voltammetry of Hydroxide Ion Oxidation in Aqueous Solutions Containing Ammonia. <i>Analytical Chemistry</i> , 2002, 74, 3290-3296.	6.5	25
34	Anion complexation and electrochemical behaviour of ferrocene-appended amido-pyrrole clefts Electronic supplementary information (ESI) available: ^1H and ^{13}C 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/ . <i>New Journal of Chemistry</i> , 2002, 26, 811-813.	2.8	27
35	Calibrationless determination of cadmium, lead and copper in rain samples by stripping voltammetry at mercury microelectrodes. <i>Analytica Chimica Acta</i> , 2002, 452, 65-75.	5.4	25
36	Detection of Hydrogen Peroxide at Mesoporous Platinum Microelectrodes. <i>Analytical Chemistry</i> , 2002, 74, 1322-1326.	6.5	351

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37	Oxygen as redox mediator in scanning electrochemical microscopy. Application to the study of localised acid attack of marble. <i>Annali Di Chimica</i> , 2002, 92, 153-61.	0.6	10
38	Detection of Hydroxide Ions in Aqueous Solutions by Steady-State Voltammetry. <i>Electroanalysis</i> , 2001, 13, 289-294.	2.9	32
39	Detection of Hydroxide Ions in Aqueous Solutions by Steady-State Voltammetry. <i>Electroanalysis</i> , 2001, 13, 289-294.	2.9	1
40	Potentiometric Probes. , 2001, , .		0
41	A study of the preconcentration and stripping voltammetry of Pb(ii) at carbon electrodes. <i>Analyst</i> , The, 2000, 125, 1135-1138.	3.5	24
42	An Instrument for Simultaneous EQCM Impedance and SECM Measurements. <i>Analytical Chemistry</i> , 2000, 72, 349-356.	6.5	39
43	Steady-State Voltammetry for Hydroxide Ion Oxidation in Aqueous Solutions in the Absence of and with Varying Concentrations of Supporting Electrolyte. <i>Analytical Chemistry</i> , 1999, 71, 811-818.	6.5	40
44	Scanning electrochemical microscopy (SECM): Study of the formation and reduction of oxides on platinum electrode surfaces in Na ₂ SO ₄ solution (pH = 7). <i>Journal of Electroanalytical Chemistry</i> , 1998, 443, 273-282.	3.8	33
45	MD simulation of water at imperfect platinum surfaces. III. Hydrogen bonding. <i>Journal of Electroanalytical Chemistry</i> , 1998, 450, 159-164.	3.8	7
46	Voltammetry of hydroxide ion in aqueous solutions on gold microelectrodes. <i>Journal of Electroanalytical Chemistry</i> , 1998, 449, 5-7.	3.8	30
47	Scanning Electrochemical Microscopy (SECM): An Investigation of the Effects of Tip Geometry on Amperometric Tip Response. <i>Journal of Physical Chemistry B</i> , 1998, 102, 9946-9951.	2.6	238
48	MD simulation of water at imperfect platinum surfaces: Part I structure. <i>Journal of Electroanalytical Chemistry</i> , 1997, 433, 153-159.	3.8	13
49	MD simulation of water at imperfect platinum surfaces: Part 2 electrostatics. <i>Journal of Electroanalytical Chemistry</i> , 1997, 433, 161-166.	3.8	4
50	Three-dimensional random walk simulation of diffusion controlled electrode processes: (II) Arrays of growing hemispheres. <i>Journal of Electroanalytical Chemistry</i> , 1997, 433, 175-180.	3.8	32
51	Electron tunnelling at the Pt(100) water interface. <i>Journal of Electroanalytical Chemistry</i> , 1997, 437, 37-44.	3.8	9
52	Three-dimensional random walk simulations of diffusion controlled electrode processes: (I) A hemisphere, disc and growing hemisphere. <i>Journal of Electroanalytical Chemistry</i> , 1997, 433, 167-173.	3.8	46
53	Scanning electrochemical microscopy (SECM) study of pH changes at Pt electrode surfaces in Na ₂ SO ₄ solution (pH 4) under potential cycling conditions. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1996, 92, 3791.	1.7	41
54	Scanning electrochemical microscopy (SECM) : study of the adsorption and desorption of hydrogen on platinum electrodes in Na ₂ SO ₄ solution (pH = 7). <i>Journal of Electroanalytical Chemistry</i> , 1996, 418, 99-107.	3.8	23

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55	A Description of the Scanning Electrochemical Microscope (SECM) and of Its Applications. , 1995, , 69-82.		1
56	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
57	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
58	Scanning electrochemical microscopy: theory and application of the transient (chronoamperometric) SECM response. Analytical Chemistry, 1991, 63, 1282-1288.	6.5	110
59	Direct determination of diffusion coefficients by chronoamperometry at microdisk electrodes. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1991, 308, 27-38.	0.1	272
60	Scanning electrochemical microscopy - a new technique for the characterization and modification of surfaces. Accounts of Chemical Research, 1990, 23, 357-363.	15.6	314
61	The behavior of microdisk and microring electrodes. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1989, 263, 225-236.	0.1	39