

Julie V Macpherson

List of Publications by Year in descending order

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195
papers

10,428
citations

26630

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docs citations

213
times ranked

8482
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrafast transient absorption spectroelectrochemistry: femtosecond to nanosecond excited-state relaxation dynamics of the individual components of an anthraquinone redox couple. <i>Chemical Science</i> , 2022, 13, 486-496.	7.4	8
2	Coexistence of carbonyl and ether groups on oxygen-terminated (110)-oriented diamond surfaces. <i>Communications Materials</i> , 2022, 3, .	6.9	10
3	Atomic-scale investigation of the reversible Li^+ to Li^0 -phase lithium ion charge/discharge characteristics of electrodeposited vanadium pentoxide nanobelts. <i>Journal of Materials Chemistry A</i> , 2022, 10, 8515-8527.	10.3	4
4	Versatile DIY Route for Incorporation of a Wide Range of Electrode Materials into Rotating Ring Disk Electrodes. <i>Analytical Chemistry</i> , 2022, 94, 9856-9862.	6.5	5
5	Atomic-Scale Investigation of the Reversible Li^+ to Li^0 -Phase Lithium Ion Charge/discharge Characteristics of Electrodeposited Vanadium Pentoxide Nanobelts. <i>ECS Meeting Abstracts</i> , 2022, MA2022-01, 2129-2129.	0.0	1
6	Electron Beam Transparent Boron Doped Diamond Electrodes for Combined Electrochemistry/Transmission Electron Microscopy. <i>ACS Measurement Science Au</i> , 2022, 2, 439-448.	4.4	1
7	(Invited) Tracking Metal Electrodeposition Dynamics from Nucleation and Growth of a Single Atom to a Crystalline Nanoparticle. <i>ECS Meeting Abstracts</i> , 2022, MA2022-01, 1159-1159.	0.0	0
8	High pressure high temperature synthesis of highly boron doped diamond microparticles and porous electrodes for electrochemical applications. <i>Carbon</i> , 2021, 171, 845-856.	10.3	24
9	Lifting the lid on the potentiostat: a beginner's guide to understanding electrochemical circuitry and practical operation. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 8100-8117.	2.8	44
10	Nanoscale Reactivity Mapping of a Single-Crystal Boron-Doped Diamond Particle. <i>Analytical Chemistry</i> , 2021, 93, 5831-5838.	6.5	33
11	Miniaturized probe on polymer SU-8 with array of individually addressable microelectrodes for electrochemical analysis in neural and other biological tissues. <i>Analytical and Bioanalytical Chemistry</i> , 2021, 413, 6777-6791.	3.7	10
12	Diamond membrane production: The critical role of radicals in the non-contact electrochemical etching of sp^2 carbon. <i>Carbon</i> , 2021, 185, 717-726.	10.3	2
13	Electrochemical Ozone Generation Using Compacted High Pressure High Temperature Synthesized Boron Doped Diamond Microparticle Electrodes. <i>Journal of the Electrochemical Society</i> , 2021, 168, 126514.	2.9	6
14	Controlling palladium morphology in electrodeposition from nanoparticles to dendrites via the use of mixed solvents. <i>Nanoscale</i> , 2020, 12, 21757-21769.	5.6	9
15	Combined Voltammetric Measurement of pH and Free Chlorine Speciation Using a Micro-Spot sp^2 Bonded Carbon/Boron Doped Diamond Electrode. <i>Analytical Chemistry</i> , 2020, 92, 16072-16078.	6.5	8
16	Identification of Mechanistic Subtleties that Apply to Voltammetric Studies at Boron-Doped Diamond Electrodes. <i>Journal of Physical Chemistry C</i> , 2020, 124, 24232-24244.	3.1	1
17	Assessment of acid and thermal oxidation treatments for removing sp^2 bonded carbon from the surface of boron doped diamond. <i>Carbon</i> , 2020, 167, 1-10.	10.3	32
18	Ex Vivo Electrochemical pH Mapping of the Gastrointestinal Tract in the Absence and Presence of Pharmacological Agents. <i>ACS Sensors</i> , 2020, 5, 2858-2865.	7.8	12

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19	Investigation of sp ² -Carbon Pattern Geometry in Boron-Doped Diamond Electrodes for the Electrochemical Quantification of Hypochlorite at High Concentrations. <i>ACS Sensors</i> , 2020, 5, 789-797.	7.8	13
20	Quantitative trace level voltammetry in the presence of electrode fouling agents: Comparison of single-walled carbon nanotube network electrodes and screen-printed carbon electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2020, 872, 114137.	3.8	0
21	Switching on palladium catalyst electrochemical removal from a palladium acetate-acetonitrile system via trace water addition. <i>Green Chemistry</i> , 2019, 21, 4662-4672.	9.0	9
22	Conductive diamond: synthesis, properties, and electrochemical applications. <i>Chemical Society Reviews</i> , 2019, 48, 157-204.	38.1	333
23	Impact of sp ² Carbon Edge Effects on the Electron-Transfer Kinetics of the Ferrocene/Ferricenium Process at a Boron-Doped Diamond Electrode in an Ionic Liquid. <i>Journal of Physical Chemistry C</i> , 2019, 123, 17397-17406.	3.1	19
24	Boron Doped Diamond as a Low Biofouling Material in Aquatic Environments: Assessment of <i>Pseudomonas aeruginosa</i> Biofilm Formation. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 25024-25033.	8.0	27
25	Enhancing Square Wave Voltammetry Measurements via Electrochemical Analysis of the Non-Faradaic Potential Window. <i>Analytical Chemistry</i> , 2019, 91, 7935-7942.	6.5	30
26	An sp ² Patterned Boron Doped Diamond Electrode for the Simultaneous Detection of Dissolved Oxygen and pH. <i>ACS Sensors</i> , 2019, 4, 756-763.	7.8	30
27	Addressing the practicalities of anodic stripping voltammetry for heavy metal detection: a tutorial review. <i>Analyst</i> , 2019, 144, 6834-6849.	3.5	132
28	Deconvoluting Surface-Bound Quinone Proton Coupled Electron Transfer in Unbuffered Solutions: Toward a Universal Voltammetric pH Electrode. <i>Journal of the American Chemical Society</i> , 2019, 141, 1035-1044.	13.7	38
29	Boron Doped Diamond: A Designer Electrode Material for the Twenty-First Century. <i>Annual Review of Analytical Chemistry</i> , 2018, 11, 463-484.	5.4	152
30	Exploring the suitability of different electrode materials for hypochlorite quantification at high concentration in alkaline solutions. <i>Electrochemistry Communications</i> , 2018, 86, 21-25.	4.7	14
31	Processes at nanoelectrodes: general discussion. <i>Faraday Discussions</i> , 2018, 210, 235-265.	3.2	1
32	Processes at nanopores and bio-nanointerfaces: general discussion. <i>Faraday Discussions</i> , 2018, 210, 145-171.	3.2	3
33	Energy conversion at nanointerfaces: general discussion. <i>Faraday Discussions</i> , 2018, 210, 333-351.	3.2	0
34	Tracking Metal Electrodeposition Dynamics from Nucleation and Growth of a Single Atom to a Crystalline Nanoparticle. <i>ACS Nano</i> , 2018, 12, 7388-7396.	14.6	74
35	Facet-Resolved Electrochemistry of Polycrystalline Boron-Doped Diamond Electrodes: Microscopic Factors Determining the Solvent Window in Aqueous Potassium Chloride Solutions. <i>ChemElectroChem</i> , 2018, 5, 3028-3035.	3.4	22
36	Probing Electrode Heterogeneity Using Fourier-Transformed Alternating Current Voltammetry: Application to a Dual-Electrode Configuration. <i>Analytical Chemistry</i> , 2017, 89, 2830-2837.	6.5	13

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37	Comparison of fast electron transfer kinetics at platinum, gold, glassy carbon and diamond electrodes using Fourier-transformed AC voltammetry and scanning electrochemical microscopy. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 8726-8734.	2.8	24
38	Elucidating the Cathodic Electrodeposition Mechanism of Lead/Lead Oxide Formation in Nitrate Solutions. <i>Journal of Physical Chemistry C</i> , 2017, 121, 6835-6843.	3.1	14
39	Probing Electrode Heterogeneity using Fourier-Transformed Alternating Current Voltammetry: Protocol Development. <i>Electrochimica Acta</i> , 2017, 240, 514-521.	5.2	6
40	Fabrication of a single sub-micron pore spanning a single crystal (100) diamond membrane and impact on particle translocation. <i>Carbon</i> , 2017, 122, 319-328.	10.3	9
41	Impact of chemical vapour deposition plasma inhomogeneity on the spatial variation of sp ² carbon in boron doped diamond electrodes. <i>Carbon</i> , 2017, 121, 434-442.	10.3	21
42	Electrochemical Synthesis of Nanoporous Platinum Nanoparticles Using Laser Pulse Heating: Application to Methanol Oxidation. <i>ACS Catalysis</i> , 2017, 7, 7388-7398.	11.2	34
43	Influence of Tip and Substrate Properties and Nonsteady-State Effects on Nanogap Kinetic Measurements: Response to Comment on "Impact of Adsorption on Scanning Electrochemical Microscopy Voltammetry and Implications for Nanogap Measurements" <i>Analytical Chemistry</i> , 2017, 89, 7273-7276.	6.5	9
44	A synthetic diamond conductivity sensor: Design rules and applications. <i>Sensors and Actuators B: Chemical</i> , 2017, 238, 1128-1135.	7.8	6
45	Intermittent-Contact Scanning Electrochemical Microscopy (IC-SECM) as a Quantitative Probe of Defects in Single Crystal Boron Doped Diamond Electrodes. <i>Electroanalysis</i> , 2016, 28, 2297-2302.	2.9	13
46	Electrochemistry of single nanoparticles: general discussion. <i>Faraday Discussions</i> , 2016, 193, 387-413.	3.2	13
47	Nanopores: general discussion. <i>Faraday Discussions</i> , 2016, 193, 507-531.	3.2	1
48	Electrodeposition of Nickel Hydroxide Nanoparticles on Carbon Nanotube Electrodes: Correlation of Particle Crystallography with Electrocatalytic Properties. <i>Journal of Physical Chemistry C</i> , 2016, 120, 16059-16068.	3.1	50
49	Quantitative analysis of trace palladium contamination in solution using electrochemical X-ray fluorescence (EC-XRF). <i>Analyst</i> , 2016, 141, 3349-3357.	3.5	10
50	Quantitative measurements in electrochemical electron paramagnetic resonance. <i>Electrochimica Acta</i> , 2016, 213, 802-810.	5.2	6
51	Quinone electrochemistry for the comparative assessment of sp ² surface content of boron doped diamond electrodes. <i>Electrochemistry Communications</i> , 2016, 72, 59-63.	4.7	27
52	Assessment of Boron Doped Diamond Electrode Quality and Application to <i>In Situ</i> Modification of Local pH by Water Electrolysis. <i>Journal of Visualized Experiments</i> , 2016, , .	0.3	2
53	Reactions at the nanoscale: general discussion. <i>Faraday Discussions</i> , 2016, 193, 265-292.	3.2	1
54	Impact of Adsorption on Scanning Electrochemical Microscopy Voltammetry and Implications for Nanogap Measurements. <i>Analytical Chemistry</i> , 2016, 88, 3272-3280.	6.5	39

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55	Manipulation and measurement of pH sensitive metal-ligand binding using electrochemical proton generation and metal detection. <i>Chemical Communications</i> , 2016, 52, 1863-1866.	4.1	12
56	Controlled sp^2 Functionalization of Boron Doped Diamond as a Route for the Fabrication of Robust and Nernstian pH Electrodes. <i>Analytical Chemistry</i> , 2016, 88, 974-980.	6.5	49
57	Pt nanoparticle modified single walled carbon nanotube network electrodes for electrocatalysis: Control of the specific surface area over three orders of magnitude. <i>Catalysis Today</i> , 2015, 244, 136-145.	4.4	22
58	A practical guide to using boron doped diamond in electrochemical research. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 2935-2949.	2.8	426
59	Diminished Electron Transfer Kinetics for $[Ru(NH_3)_6]^{3+}$, $[Ru(NH_3)_5]^{2+}$, and $[Ru(NH_3)_4]^{2+}$ Processes at Boron-Doped Diamond Electrodes. <i>Journal of Physical Chemistry C</i> , 2015, 119, 12464-12472.	3.1	21
60	Direct Identification and Analysis of Heavy Metals in Solution (Hg, Cu, Pb, Zn, Ni) by Use of in Situ Electrochemical X-ray Fluorescence. <i>Analytical Chemistry</i> , 2015, 87, 4933-4940.	6.5	36
61	Electrochemical electron paramagnetic resonance utilizing loop gap resonators and micro-electrochemical cells. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 23438-23447.	2.8	17
62	Electrochemical Flow Injection Analysis of Hydrazine in an Excess of an Active Pharmaceutical Ingredient: Achieving Pharmaceutical Detection Limits Electrochemically. <i>Analytical Chemistry</i> , 2015, 87, 10064-10071.	6.5	52
63	Controlled functionalisation of single-walled carbon nanotube network electrodes for the enhanced voltammetric detection of dopamine. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 26394-26402.	2.8	17
64	Electrochemical microscale patterning of boron doped diamond electrodes. <i>Chemical Communications</i> , 2015, 51, 164-167.	4.1	17
65	Selection, characterisation and mapping of complex electrochemical processes at individual single-walled carbon nanotubes: the case of serotonin oxidation. <i>Faraday Discussions</i> , 2014, 172, 439-455.	3.2	17
66	Laser heated boron doped diamond electrodes: effect of temperature on outer sphere electron transfer processes. <i>Faraday Discussions</i> , 2014, 172, 421-438.	3.2	13
67	Role of surface contaminants, functionalities, defects and electronic structure: general discussion. <i>Faraday Discussions</i> , 2014, 172, 365-395.	3.2	1
68	Investigation of molecular partitioning between non polar oil droplets and aqueous solution using double potential step chronoamperometry. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 10456-10463.	2.8	1
69	<i>In Situ</i> Optimization of pH for Parts-Per-Billion Electrochemical Detection of Dissolved Hydrogen Sulfide Using Boron Doped Diamond Flow Electrodes. <i>Analytical Chemistry</i> , 2014, 86, 10834-10840.	6.5	63
70	The many faces of carbon in electrochemistry: general discussion. <i>Faraday Discussions</i> , 2014, 172, 117-137.	3.2	4
71	Carbon electrode interfaces for synthesis, sensing and electrocatalysis: general discussion. <i>Faraday Discussions</i> , 2014, 172, 497-520.	3.2	1
72	Carbon electrodes for energy storage: general discussion. <i>Faraday Discussions</i> , 2014, 172, 239-260.	3.2	11

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73	Fabrication Route for the Production of Coplanar, Diamond Insulated, Boron Doped Diamond Macro- and Microelectrodes of any Geometry. <i>Analytical Chemistry</i> , 2014, 86, 5238-5244.	6.5	27
74	Mapping Nanoscale Electrochemistry of Individual Single-Walled Carbon Nanotubes. <i>Nano Letters</i> , 2014, 14, 220-224.	9.1	83
75	In Situ Control of Local pH Using a Boron Doped Diamond Ring Disk Electrode: Optimizing Heavy Metal (Mercury) Detection. <i>Analytical Chemistry</i> , 2014, 86, 367-371.	6.5	37
76	Electrochemical X-ray Fluorescence Spectroscopy for Trace Heavy Metal Analysis: Enhancing X-ray Fluorescence Detection Capabilities by Four Orders of Magnitude. <i>Analytical Chemistry</i> , 2014, 86, 4566-4572.	6.5	80
77	Electrochemical activation of pristine single walled carbon nanotubes: impact on oxygen reduction and other surface sensitive redox processes. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 9966.	2.8	9
78	Dual-electrode measurements in a meniscus microcapillary electrochemical cell using a high aspect ratio carbon fibre ultramicroelectrode. <i>Journal of Electroanalytical Chemistry</i> , 2014, 729, 80-86.	3.8	6
79	Ultrasensitive Detection of Dopamine Using a Carbon Nanotube Network Microfluidic Flow Electrode. <i>Analytical Chemistry</i> , 2013, 85, 163-169.	6.5	102
80	Examination of the Factors Affecting the Electrochemical Performance of Oxygen-Terminated Polycrystalline Boron-Doped Diamond Electrodes. <i>Analytical Chemistry</i> , 2013, 85, 7230-7240.	6.5	169
81	Comparison and Reappraisal of Carbon Electrodes for the Voltammetric Detection of Dopamine. <i>Analytical Chemistry</i> , 2013, 85, 11755-11764.	6.5	143
82	Selective Detection of Hydrazine in the Presence of Excess Electrochemically Active Pharmaceutical Ingredients Using Boron Doped Diamond Metal Nanoparticle Functionalised Electrodes. <i>Electroanalysis</i> , 2013, 25, 2613-2619.	2.9	11
83	Investigation of film formation properties during electrochemical oxidation of serotonin (5-HT) at polycrystalline boron doped diamond. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 18085.	2.8	41
84	Intrinsic electrochemical activity of single walled carbon nanotubeâ€Nafion assemblies. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 5030.	2.8	14
85	Boron doped diamond ultramicroelectrodes: a generic platform for sensing single nanoparticle electrocatalytic collisions. <i>Chemical Communications</i> , 2013, 49, 5657.	4.1	50
86	Development of a Novel Combined Scanning Electrochemical Microscope (SECM) and Scanning Ion-Conductance Microscope (SICM) Probe for Soft Sample Imaging. <i>Materials Research Society Symposia Proceedings</i> , 2012, 1422, 13.	0.1	2
87	Topographical and electrochemical nanoscale imaging of living cells using voltage-switching mode scanning electrochemical microscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 11540-11545.	7.1	198
88	Quantitative nanoscale visualization of heterogeneous electron transfer rates in 2D carbon nanotube networks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 11487-11492.	7.1	93
89	A New View of Electrochemistry at Highly Oriented Pyrolytic Graphite. <i>Journal of the American Chemical Society</i> , 2012, 134, 20117-20130.	13.7	228
90	Active Sites for Outer-Sphere, Inner-Sphere, and Complex Multistage Electrochemical Reactions at Polycrystalline Boron-Doped Diamond Electrodes (pBDD) Revealed with Scanning Electrochemical Cell Microscopy (SECCM). <i>Analytical Chemistry</i> , 2012, 84, 5427-5432.	6.5	73

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91	<i>In situ</i> scanning electrochemical probe microscopy for energy applications. MRS Bulletin, 2012, 37, 668-674.	3.5	34
92	Structural Correlations in Heterogeneous Electron Transfer at Monolayer and Multilayer Graphene Electrodes. Journal of the American Chemical Society, 2012, 134, 7258-7261.	13.7	157
93	InnenrÄ¼cktitelbild: Electrochemical Mapping Reveals Direct Correlation between Heterogeneous Electron-Transfer Kinetics and Local Density of States in Diamond ElectrodesZ203057 (Angew. Chem.) Tj ETQq1 1 0.084314 rgBT /Ov		
94	Electrochemical Mapping Reveals Direct Correlation between Heterogeneous Electronâ€”Transfer Kinetics and Local Density of States in Diamond Electrodes. Angewandte Chemie - International Edition, 2012, 51, 7002-7006.	13.8	104
95	Electro-oxidation of hydrazine at gold nanoparticle functionalised single walled carbon nanotube network ultramicroelectrodes. Physical Chemistry Chemical Physics, 2011, 13, 17146.	2.8	33
96	Visualisation of electrochemical processes at optically transparent carbon nanotube ultramicroelectrodes (OT-CNT-UMEs). Physical Chemistry Chemical Physics, 2011, 13, 5223.	2.8	11
97	Pulling Nanotubes from Supported Bilayers. Langmuir, 2011, 27, 8269-8274.	3.5	9
98	Electrochemistry at Nanoscale Electrodes: Individual Single-Walled Carbon Nanotubes (SWNTs) and SWNT-Templated Metal Nanowires. ACS Nano, 2011, 5, 10017-10025.	14.6	58
99	Visualizing Zeptomole (Electro)Catalysis at Single Nanoparticles within an Ensemble. Journal of the American Chemical Society, 2011, 133, 10744-10747.	13.7	144
100	Electrodeposition of Nickel Hydroxide Nanoparticles on Boron-Doped Diamond Electrodes for Oxidative Electrocatalysis. Journal of Physical Chemistry C, 2011, 115, 1649-1658.	3.1	134
101	Fabrication and Characterization of an All-Diamond Tubular Flow Microelectrode for Electroanalysis. Analytical Chemistry, 2011, 83, 5804-5808.	6.5	14
102	Factors Controlling Stripping Voltammetry of Lead at Polycrystalline Boron Doped Diamond Electrodes: New Insights from High-Resolution Microscopy. Analytical Chemistry, 2011, 83, 735-745.	6.5	68
103	Taking a closer look at conductivity. Nature Nanotechnology, 2011, 6, 84-85.	31.5	4
104	Influence of ultrathin poly-(3,4-ethylenedioxythiophene) (PEDOT) film supports on the electrodeposition and electrocatalytic activity of discrete platinum nanoparticles. Journal of Solid State Electrochemistry, 2011, 15, 2331-2339.	2.5	24
105	Silverâ€”decorated carbon nanotube networks as SERS substrates. Journal of Raman Spectroscopy, 2011, 42, 1255-1262.	2.5	21
106	Field ionization using densely spaced arrays of nickel-tipped carbon nanotubes. Chemical Physics Letters, 2011, 505, 126-129.	2.6	7
107	Single walled carbon nanotube channel flow electrode: Hydrodynamic voltammetry at the nanomolar level. Electrochemistry Communications, 2011, 13, 186-189.	4.7	20
108	Probing Redox Reactions of Immobilized Cytochrome <i>c</i> Using Evanescent Wave Cavity Ringâ€”Down Spectroscopy in a Thinâ€”Layer Electrochemical Cell. ChemPhysChem, 2010, 11, 2985-2991.	2.1	5

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109	Electrochemical Nucleation and Growth of Gold Nanoparticles on Single-Walled Carbon Nanotubes: New Mechanistic Insights. <i>Journal of Physical Chemistry C</i> , 2010, 114, 13241-13248.	3.1	77
110	Electron Transfer Kinetics at Single-Walled Carbon Nanotube Electrodes using Scanning Electrochemical Microscopy. <i>Journal of Physical Chemistry C</i> , 2010, 114, 2633-2639.	3.1	57
111	Trace voltammetric detection of serotonin at carbon electrodes: comparison of glassy carbon, boron doped diamond and carbon nanotube network electrodes. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 10108.	2.8	81
112	Fabrication of Versatile Channel Flow Cells for Quantitative Electroanalysis Using Prototyping. <i>Analytical Chemistry</i> , 2010, 82, 3124-3131.	6.5	77
113	Themed issue on Bioelectrochemistry. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 9971.	2.8	0
114	Ultrathin Carbon Nanotube Mat Electrodes for Enhanced Amperometric Detection. <i>Advanced Materials</i> , 2009, 21, 3105-3109.	21.0	53
115	Carbon nanotube tips for atomic force microscopy. <i>Nature Nanotechnology</i> , 2009, 4, 483-491.	31.5	222
116	Electrochemical impedance spectroscopy at single-walled carbon nanotube network ultramicroelectrodes. <i>Electrochemistry Communications</i> , 2009, 11, 2081-2084.	4.7	29
117	Electrochemistry at carbon nanotubes: perspective and issues. <i>Chemical Communications</i> , 2009, , 6886.	4.1	285
118	Evanescence Wave Cavity Ring-Down Spectroscopy as a Probe of Interfacial Adsorption: Interaction of Tris(2,2'-bipyridine)ruthenium(II) with Silica Surfaces and Polyelectrolyte Films. <i>Langmuir</i> , 2009, 25, 248-255.	3.5	25
119	Horizontal Alignment of Chemical Vapor-Deposited SWNTs on Single-Crystal Quartz Surfaces: Further Evidence for Epitaxial Alignment. <i>Journal of Physical Chemistry C</i> , 2009, 113, 17087-17096.	3.1	36
120	Scanning Micropipet Contact Method for High-Resolution Imaging of Electrode Surface Redox Activity. <i>Analytical Chemistry</i> , 2009, 81, 2486-2495.	6.5	184
121	Amperometric Oxygen Sensor Based on a Platinum Nanoparticle-Modified Polycrystalline Boron Doped Diamond Disk Electrode. <i>Analytical Chemistry</i> , 2009, 81, 1023-1032.	6.5	115
122	Effects of Metal Underlayer Grain Size on Carbon Nanotube Growth. <i>Journal of Physical Chemistry C</i> , 2009, 113, 15133-15139.	3.1	32
123	Effect of high rates of mass transport on oxygen reduction at copper electrodes: Implications for aluminium corrosion. <i>Electrochemistry Communications</i> , 2008, 10, 1334-1336.	4.7	27
124	Single-Walled Carbon Nanotube Network Ultramicroelectrodes. <i>Analytical Chemistry</i> , 2008, 80, 3598-3605.	6.5	55
125	In-Situ Atomic Force Microscopy (AFM) Imaging: Influence of AFM Probe Geometry on Diffusion to Microscopic Surfaces. <i>Langmuir</i> , 2008, 24, 12867-12876.	3.5	30
126	Surface Assembly and Redox Dissolution of Silver Nanoparticles Monitored by Evanescent Wave Cavity Ring-Down Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2008, 112, 15274-15280.	3.1	23

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127	Laser Scanning Confocal Microscopy Coupled with Hydraulic Permeability Measurements for Elucidating Fluid Flow across Porous Materials: Application to Human Dentine. <i>Analytical Sciences</i> , 2008, 24, 437-442.	1.6	9
128	Factors Controlling the Electrodeposition of Metal Nanoparticles on Pristine Single Walled Carbon Nanotubes. <i>Nano Letters</i> , 2007, 7, 51-57.	9.1	147
129	Synthesis of azide/alkyne-terminal polymers and application for surface functionalisation through a [2 + 3] Huisgen cycloaddition process, "click chemistry". <i>Soft Matter</i> , 2007, 3, 732-739.	2.7	96
130	Trace Level Cyclic Voltammetry Facilitated by Single-Walled Carbon Nanotube Network Electrodes. <i>Journal of the American Chemical Society</i> , 2007, 129, 10982-10983.	13.7	79
131	Functionalizing Single-Walled Carbon Nanotube Networks: Effect on Electrical and Electrochemical Properties. <i>Journal of Physical Chemistry C</i> , 2007, 111, 12944-12953.	3.1	69
132	Controlled Growth and Characterization of Two-Dimensional Single-Walled Carbon-Nanotube Networks for Electrical Applications. <i>Small</i> , 2007, 3, 860-870.	10.0	46
133	Single-Walled Carbon Nanotube Networks Decorated with Silver Nanoparticles: A Novel Graded SERS Substrate. <i>Journal of Physical Chemistry C</i> , 2007, 111, 16167-16173.	3.1	100
134	Effect of composition on the conductivity and morphology of poly(3-hexylthiophene)/gold nanoparticle composite Langmuir-Schaeffer films. <i>Physical Chemistry Chemical Physics</i> , 2006, 8, 5096-5105.	2.8	34
135	Electron beam lithographically-defined scanning electrochemical-atomic force microscopy probes: fabrication method and application to high resolution imaging on heterogeneously active surfaces. <i>Physical Chemistry Chemical Physics</i> , 2006, 8, 3909.	2.8	27
136	Assessment of the Electrochemical Behavior of Two-Dimensional Networks of Single-Walled Carbon Nanotubes. <i>Analytical Chemistry</i> , 2006, 78, 7006-7015.	6.5	31
137	Impact of Grain-Dependent Boron Uptake on the Electrochemical and Electrical Properties of Polycrystalline Boron Doped Diamond Electrodes. <i>Journal of Physical Chemistry B</i> , 2006, 110, 5639-5646.	2.6	137
138	Examination of the Spatially Heterogeneous Electroactivity of Boron-Doped Diamond Microarray Electrodes. <i>Analytical Chemistry</i> , 2006, 78, 2539-2548.	6.5	77
139	Evanescent Wave Cavity Ring-Down Spectroscopy in a Thin-Layer Electrochemical Cell. <i>Analytical Chemistry</i> , 2006, 78, 6833-6839.	6.5	39
140	Formation of polyaniline/Pt nanoparticle composite films and their electrocatalytic properties. <i>Journal of Solid State Electrochemistry</i> , 2006, 10, 792-807.	2.5	52
141	Modes of Action of a Weak Acid Modifier of Calcite Growth. <i>ChemPhysChem</i> , 2006, 7, 1019-1021.	2.1	7
142	Scanning electrochemical microscopy: principles and applications to biophysical systems. <i>Physiological Measurement</i> , 2006, 27, R63-R108.	2.1	112
143	Formation of polyaniline/Pt nanoparticle composite films and their electrocatalytic properties. <i>Journal of Solid State Electrochemistry</i> , 2006, 10, 792-807.	2.5	3
144	Combined scanning electrochemical-atomic force microscopy (SECM-AFM): Simulation and experiment for flux-generation at un-insulated metal-coated probes. <i>Journal of Electroanalytical Chemistry</i> , 2005, 585, 8-18.	3.8	32

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