Richard Compton

List of Publications by Year
in descending order

747 papers	35,478 citations	3721 89 h-index	8138 148 g-index
773 all docs	773 docs citations	773 times ranked	23014 citing authors

#	Article	IF	Citations
1	Electrocatalysis at graphite and carbon nanotube modified electrodes: edge-plane sites and tube ends are the reactive sites. Chemical Communications, 2005, , 829.	2.2	922
2	The use of nanoparticles in electroanalysis: a review. Analytical and Bioanalytical Chemistry, 2006, 384, 601-619.	1.9	684
3	Carbon Nanotubes Contain Metal Impurities Which Are Responsible for the â€œElectrocatalysisâ€•Seen at Some Nanotube-Modified Electrodes. Angewandte Chemie - International Edition, 2006, 45, 2533-2537.	7.2	581
4	Water-induced accelerated ion diffusion: voltammetric studies in 1-methyl-3-[2,6-(S)-dimethylocten-2-yl]imidazolium tetrafluoroborate, 1-butyl-3-methylimidazolium tetrafluoroborate and hexafluorophosphate ionic liquids. New Journal of Chemistry, 2000, 24, 1009-1015.	1.4	513
5	Effect of Water on the Electrochemical Window and Potential Limits of Room-Temperature Ionic Liquids. Journal of Chemical & Engineering Data, 2008, 53, 2884-2891.	1.0	486
6	Basal Plane Pyrolytic Graphite Modified Electrodes:Â Comparison of Carbon Nanotubes and Graphite Powder as Electrocatalysts. Analytical Chemistry, 2004, 76, 2677-2682.	3.2	481
7	The Electrochemical Detection and Characterization of Silver Nanoparticles in Aqueous Solution. Angewandte Chemie - International Edition, 2011, 50, 4219-4221.	7.2	467
8	Anodic Stripping Voltammetry of Arsenic(III) Using Gold Nanoparticle-Modified Electrodes. Analytical Chemistry, 2004, 76, 5924-5929.	3.2	447
9	Cyclic voltammetry on electrode surfaces covered with porous layers: An analysis of electron transfer kinetics at single-walled carbon nanotube modified electrodes. Sensors and Actuators B: Chemical, 2008, 133, 462-466.	4.0	399
10	Silver nanoparticle assemblies supported on glassy-carbon electrodes for the electro-analytical detection of hydrogen peroxide. Analytical and Bioanalytical Chemistry, 2005, 382, 12-21.	1.9	377
11	The cyclic and linear sweep voltammetry of regular and random arrays of microdisc electrodes: Theory. Journal of Electroanalytical Chemistry, 2005, 585, 63-82.	1.9	363
12	Defining the transfer coefficient in electrochemistry: An assessment (IUPAC Technical Report). Pure and Applied Chemistry, 2014, 86, 245-258.	0.9	361
13	The use of nanoparticles in electroanalysis: an updated review. Analytical and Bioanalytical Chemistry, 2010, 396, 241-259.	1.9	353
14	Chemically Modified Carbon Nanotubes for Use in Electroanalysis. Mikrochimica Acta, 2006, 152, 187-214.	2.5	336
15	Sonoelectrochemical processes: A review. Electroanalysis, 1997, 9, 509-522.	1.5	262
16	Carbon Nanotubeâ^'Ionic Liquid Composite Sensors and Biosensors. Analytical Chemistry, 2009, 81, 435-442.	3.2	258
17	Sensitive adsorptive stripping voltammetric determination of paracetamol at multiwalled carbon nanotube modified basal plane pyrolytic graphite electrode. Analytica Chimica Acta, 2008, 618, 54-60.	2.6	255
18	Nanotrench Arrays Reveal Insight into Graphite Electrochemistry. Angewandte Chemie - International Edition, 2005, 44, 5121-5126.	7.2	254

#	Article	IF	Citations
19	Carbon-free energy: a review of ammonia- and hydrazine-based electrochemical fuel cells. Energy and Environmental Science, 2011, 4, 1255.	15.6	251
20	Voltammetry of Oxygen in the Room-Temperature Ionic Liquids 1-Ethyl-3-methylimidazolium Bis((trifluoromethyl)sulfonyl)imide and Hexyltriethylammonium Bis((trifluoromethyl)sulfonyl)imide:â€‰ One-Electron Reduction To Form Superoxide. Steady-State and Transient Behavior in the Same Cyclic Voltammogram Resulting from Widely Different Diffusion Coefficients of Oxygen and Superoxide. Journal of Physical Chemistry A, 2003, 107, 8872-8878.	1.1	248
21	Electrochemical detection of nitrate and nitrite at a copper modified electrode. Analyst, The, 2000, 125, 737-742.	1.7	240
22	Voltammetric Characterization of the Ferrocene|Ferrocenium and Cobaltocenium|Cobaltocene Redox Couples in RTILs. Journal of Physical Chemistry C, 2008, 112, 2729-2735.	1.5	228
23	Electrochemical detection of nanoparticles by â€˜nano-impactâ€™ methods. TrAC - Trends in Analytical Chemistry, 2014, 58, 79-89.	5.8	219
24	Voltammetric selectivity conferred by the modification of electrodes using conductive porous layers or films: The oxidation of dopamine on glassy carbon electrodes modified with multiwalled carbon nanotubes. Sensors and Actuators B: Chemical, 2010, 145, 417-427.	4.0	217
25	Electroreduction of Oxygen in a Series of Room Temperature Ionic Liquids Composed of Group 15-Centered Cations and Anions. Journal of Physical Chemistry B, 2004, 108, 7878-7886.	1.2	216
26	Oxygenated Edge Plane Sites Slow the Electron Transfer of the Ferro-/Ferricyanide Redox Couple at Graphite Electrodes. ChemPhysChem, 2006, 7, 1337-1344.	1.0	214
27	Electrochemical determination of nitrite at a bare glassy carbon electrode; why chemically modify electrodes?. Sensors and Actuators B: Chemical, 2010, 143, 539-546.	4.0	204
28	Voltammetry at spatially heterogeneous electrodes. Journal of Solid State Electrochemistry, 2005, 9, 797-808.	1.2	203
29	Sustainable energy: a review of formic acid electrochemical fuel cells. Journal of Solid State Electrochemistry, 2011, 15, 2095-2100.	1.2	201
30	Electrodeâ€“particle impacts: a users guide. Physical Chemistry Chemical Physics, 2017, 19, 28-43.	1.3	196
31	Sensitive electrochemical detection of arsenic (III) using gold nanoparticle modified carbon nanotubes via anodic stripping voltammetry. Analytica Chimica Acta, 2008, 620, 44-49.	2.6	194
32	Electrochemical determination of glutathione: a review. Analyst, The, 2012, 137, 2285.	1.7	193
33	Electrochemistry of immobilised redox droplets: Concepts and applications. Physical Chemistry Chemical Physics, 2003, 5, 4053.	1.3	179
34	The cyclic voltammetric response of electrochemically heterogeneous surfaces. Journal of Electroanalytical Chemistry, 2004, 574, 123-152.	1.9	178
35	The cyclic and linear sweep voltammetry of regular arrays of microdisc electrodes: Fitting of experimental data. Journal of Electroanalytical Chemistry, 2005, 585, 51-62.	1.9	177
36	The Electrochemical Analog of the Methylene Blue Reaction: A Novel Amperometric Approach to the Detection of Hydrogen Sulfide. Electroanalysis, 2000, 12, 1453-1460.	1.5	173

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37	An overview of the electrochemical reduction of oxygen at carbon-based modified electrodes. Journal of the Iranian Chemical Society, 2005, 2, 1-25.	1.2	173
38	Koutecky-Levich analysis applied to nanoparticle modified rotating disk electrodes: Electrocatalysis or misinterpretation. Nano Research, 2014, 7, 71-78.	5.8	169
39	Mass Transport to Nanoelectrode Arrays and Limitations of the Diffusion Domain Approach: Theory and Experiment. Journal of Physical Chemistry C, 2009, 113, 11119-11125.	1.5	164
40	Hydrogen Bonding to Hexafluoroisopropanol Controls the Oxidative Strength of Hypervalent Iodine Reagents. Journal of the American Chemical Society, 2016, 138, 8855-8861.	6.6	162
41	Detection of As(iii) via oxidation to As(v) using platinum nanoparticle modified glassy carbon electrodes: arsenic detection without interference from copper. Analyst, The, 2006, 131, 516.	1.7	158
42	Effects of thin-layer diffusion in the electrochemical detection of nicotine on basal plane pyrolytic graphite (BPPG) electrodes modified with layers of multi-walled carbon nanotubes (MWCNT-BPPG). Sensors and Actuators B: Chemical, 2010, 144, 153-158.	4.0	158
43	How Much Supporting Electrolyte Is Required to Make a Cyclic Voltammetry Experiment Quantitatively â€œDiffusionalâ€? A Theoretical and Experimental Investigation. Journal of Physical Chemistry C, 2009, 113, 11157-11171.	1.5	155
44	Carbon nanotube-based electrochemical sensors for quantifying the â€˜heatâ€™ of chilli peppers: the adsorptive stripping voltammetric determination of capsaicin. Analyst, The, 2008, 133, 888.	1.7	152
45	A mini-review: How reliable is the drop casting technique?. Electrochemistry Communications, 2020, 121, 106867.	2.3	151
46	Nickel(ii) tetra-aminophthalocyanine modified MWCNTs as potential nanocomposite materials for the development of supercapacitors. Energy and Environmental Science, 2010, 3, 228-236.	15.6	148
47	Channel Electrodes â€” A Review. Electroanalysis, 1998, 10, 141-155.	1.5	147
48	Gold nanoparticles show electroactivity: counting and sorting nanoparticles upon impact with electrodes. Chemical Communications, 2012, 48, 224-226.	2.2	144
49	Measurement of the diffusion coefficients of [Ru(NH3)6]3+ and [Ru(NH3)6]2+ in aqueous solution using microelectrode double potential step chronoamperometry. Journal of Electroanalytical Chemistry, 2011, 652, 13-17.	1.9	143
50	Investigation of Singleâ€ŧDrugâ€ŧEncapsulating Liposomes using the Nanoâ€ŧmpact Method. Angewandte Chemie - International Edition, 2014, 53, 13928-13930.	7.2	142
51	Hydrogen Peroxide Electroreduction at a Silver-Nanoparticle Array: Investigating Nanoparticle Size and Coverage Effects. Journal of Physical Chemistry C, 2009, 113, 9053-9062.	1.5	140
52	Understanding Voltammetry. , 2010, , .		140
53	Hydrodynamic voltammetry with microelectrodes: channel microband electrodes; theory and experiment. The Journal of Physical Chemistry, 1993, 97, 10410-10415.	2.9	134
54	A simple electroanalytical methodology for the simultaneous determination of dopamine, serotonin and ascorbic acid using an unmodified edge plane pyrolytic graphite electrode. Analytical and Bioanalytical Chemistry, 2007, 387, 2793-2800.	1.9	130

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55	Planar diffusion to macro disc electrodesâ€"what electrode size is required for the Cottrell and Randles-Sevcik equations to apply quantitatively?. Journal of Solid State Electrochemistry, 2014, 18, 3251-3257.	1.2	130
56	Recent Advances in Voltammetry. ChemistryOpen, 2015, 4, 224-260.	0.9	130
57	Understanding Voltammetry. , 2018, , .		127
58	Reversible or Not? Distinguishing Agglomeration and Aggregation at the Nanoscale. Analytical Chemistry, 2015, 87, 10033-10039.	3.2	125
59	Definition of the transfer coefficient in electrochemistry (IUPAC Recommendations 2014). Pure and Applied Chemistry, 2014, 86, 259-262.	0.9	124
60	Two-Electron, Two-Proton Oxidation of Catechol: Kinetics and Apparent Catalysis. Journal of Physical Chemistry C, 2015, 119, 1489-1495.	1.5	122
61	The measurement of the diffusion coefficients of ferrocene and ferrocenium and their temperature dependence in acetonitrile using double potential step microdisk electrode chronoamperometry. Journal of Electroanalytical Chemistry, 2010, 648, 15-19.	1.9	120
62	Design, fabrication, characterisation and application of nanoelectrode arrays. Chemical Physics Letters, 2008, 459, 1-17.	1.2	118
63	Computational and Experimental Study of the Cyclic Voltammetry Response of Partially Blocked Electrodes. Part 1. Nonoverlapping, Uniformly Distributed Blocking Systems. Journal of Physical Chemistry B, 2003, 107, 1616-1627.	1.2	115
64	The electrochemical reduction of indigo dissolved in organic solvents and as a solid mechanically attached to a basal plane pyrolytic graphite electrode immersed in aqueous electrolyte solution. Journal of the Chemical Society Perkin Transactions II, 1997, , 1735-1742.	0.9	112
65	Electrochemical detection of thiols in biological media. Talanta, 2001, 53, 1089-1094.	2.9	112
66	The anodic stripping voltammetry of nanoparticles: electrochemical evidence for the surface agglomeration of silver nanoparticles. Nanoscale, 2013, 5, 4884.	2.8	112
67	Electrochemical reduction of nitrobenzene and 4-nitrophenol in the room temperature ionic liquid [C4dmim][N(Tf)2]. Journal of Electroanalytical Chemistry, 2006, 596, 131-140.	1.9	111
68	Determining unknown concentrations of nanoparticles: the particle-impact electrochemistry of nickel and silver. RSC Advances, 2012, 2, 6879.	1.7	109
69	Asymmetric Marcusâ€"Hush theory for voltammetry. Chemical Society Reviews, 2013, 42, 4894.	18.7	109
70	The use of nano-carbon as an alternative to multi-walled carbon nanotubes in modified electrodes for adsorptive stripping voltammetry. Sensors and Actuators B: Chemical, 2012, 162, 361-368.	4.0	107
71	Chemical analysis in saliva and the search for salivary biomarkers â€" a tutorial review. Analyst, The, 2018, 143, 81-99.	1.7	107
72	Rapid electrochemical detection of single influenza viruses tagged with silver nanoparticles. Chemical Science, 2016, 7, 3892-3899.	3.7	106

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73	Electroanalytical Determination of Cadmium(II) and Lead(II) Using an in-situ Bismuth Film Modified Edge Plane Pyrolytic Graphite Electrode. Analytical Sciences, 2007, 23, 283-289.	0.8	105
74	The influence of edge-plane defects and oxygen-containing surface groups on the voltammetry of acid-treated, annealed and â€œsuper-annealedâ€•multiwalled carbon nanotubes. Journal of Solid State Electrochemistry, 2008, 12, 1337-1348.	1.2	105
75	Electrochemical studies of gold and chloride in ionic liquids. New Journal of Chemistry, 2006, 30, 1576-1583.	1.4	103
76	Electrochemical detection of single E. coli bacteria labeled with silver nanoparticles. Biomaterials Science, 2015, 3, 816-820.	2.6	102
77	Electrochemical Observation of Single Collision Events: Fullerene Nanoparticles. ACS Nano, 2014, 8, 7648-7654.	7.3	101
78	Anthraquinone-derivatised carbon powder: reagentless voltammetric pH electrodes. Talanta, 2003, 60, 887-893.	2.9	100
79	Electrochemical Oxidation of Adenine: A Mixed Adsorption and Diffusion Response on an Edge-Plane Pyrolytic Graphite Electrode. Journal of Physical Chemistry C, 2010, 114, 14213-14219.	1.5	100
80	Light-driven post-translational installation of reactive protein side chains. Nature, 2020, 585, 530-537.	13.7	100
81	Generator-collector double electrode systems: A review. Analyst, The, 2012, 137, 1068.	1.7	98
82	Sono-cathodic stripping voltammetry of manganese at a polished boron-doped diamond electrode: application to the determination of manganese in instant tea. Analyst, The, 1999, 124, 1791-1796.	1.7	97
83	Photoelectrochemical ESR. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1983, 144, 87-98.	0.3	96
84	Channel and tubular electrodes. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1986, 205, 1-20.	0.3	96
85	Nanoparticleâ€“electrode impacts: the oxidation of copper nanoparticles has slow kinetics. Physical Chemistry Chemical Physics, 2012, 14, 13612.	1.3	94
86	Innovative catalyst design for the oxygen reduction reaction for fuel cells. Chemical Science, 2016, 7, 3364-3369.	3.7	94
87	In situ nanoparticle sizing with zeptomole sensitivity. Analyst, The, 2015, 140, 5048-5054.	1.7	92
88	Laser-Induced Potential Transients on a Au(111) Single-Crystal Electrode. Determination of the Potential of Maximum Entropy of Double-Layer Formation. Journal of Physical Chemistry B, 2002, 106, 5258-5265.	1.2	91
89	Derivatised carbon powder electrodes: reagentless pH sensors. Talanta, 2004, 63, 1039-1051.	2.9	91
90	Voltammetric Characterization of DNA Intercalators across the Full pH Range: Anthraquinone-2,6-disulfonate and Anthraquinone-2-sulfonate. Journal of Physical Chemistry B, 2010, 114, 4094-4100.	1.2	91

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91	Electrochemical Sizing of Organic Nanoparticles. Angewandte Chemie - International Edition, 2013, 52, 12980-12982.	7.2	91
92	Voltammetry in the presence of ultrasound: mass transport effects. Journal of Applied Electrochemistry, 1996, 26, 775-784.	1.5	90
93	The Influence of the Capping Agent on the Oxidation of Silver Nanoparticles: Nanoâ€impacts versus Stripping Voltammetry. Chemistry - A European Journal, 2015, 21, 2998-3004.	1.7	90
94	Double potential step chronoamperometry at microdisk electrodes: simulating the case of unequal diffusion coefficients. Journal of Electroanalytical Chemistry, 2004, 571, 211-221.	1.9	88
95	Electrochemistry in Room-Temperature Ionic Liquids: Potential Windows at Mercury Electrodes. Journal of Chemical & Engineering Data, 2009, 54, 2049-2053.	1.0	88
96	Direct electrochemical detection and sizing of silver nanoparticles in seawater media. Nanoscale, 2013, 5, 174-177.	2.8	88
97	Tafel analysis in practice. Journal of Electroanalytical Chemistry, 2018, 826, 117-124.	1.9	88
98	Coulometric sizing of nanoparticles: Cathodic and anodic impact experiments open two independent routes to electrochemical sizing of Fe3O4 nanoparticles. Nano Research, 2013, 6, 836-841.	5.8	87
99	Influence of Electrode Roughness on Cyclic Voltammetry. Journal of Physical Chemistry C, 2008, 112, 14428-14438.	1.5	86
100	The Aggregation of Silver Nanoparticles in Aqueous Solution Investigated via Anodic Particle Coulometry. ChemPhysChem, 2011, 12, 1645-1647.	1.0	85
101	Single graphene nanoplatelets: capacitance, potential of zero charge and diffusion coefficient. Chemical Science, 2015, 6, 2869-2876.	3.7	85
102	A Computational and Experimental Study of the Cyclic Voltammetry Response of Partially Blocked Electrodes. Part II:Â Randomly Distributed and Overlapping Blocking Systems. Journal of Physical Chemistry B, 2003, 107, 6431-6444.	1.2	84
103	Electrochemical CO₂sequestration in ionic liquids; a perspective. Energy and Environmental Science, 2011, 4, 403-408.	15.6	84
104	Destructive nano-impacts: What information can be extracted from spike shapes?. Electrochimica Acta, 2016, 199, 297-304.	2.6	84
105	Electron transfer kinetics at single nanoparticles. Nano Today, 2012, 7, 174-179.	6.2	83
106	Electrochemical detection of chloride levels in sweat using silver nanoparticles: a basis for the preliminary screening for cystic fibrosis. Analyst, The, 2013, 138, 4292.	1.7	82
107	Making contact: charge transfer during particleâ€“electrode collisions. RSC Advances, 2012, 2, 379-384.	1.7	81
108	Mass Transport to microâ€•and nanoelectrodes and their arrays: a review. Chemical Record, 2012, 12, 63-71.	2.9	81

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109	Nanoparticle modified electrodes can show an apparent increase in electrode kinetics due solely to altered surface geometry: The effective electrochemical rate constant for non-flat and non-uniform electrode surfaces. Journal of Electroanalytical Chemistry, 2013, 695, 1-9.	1.9	81
110	Boron doped diamond electrode modified with iridium oxide for amperometic detection of ultra trace amounts of arsenic(iii). Analyst, The, 2004, 129, 9.	1.7	80
111	Molecularâ€Scale Hybridization of Clay Monolayers and Conducting Polymer for Thinâ€Film Supercapacitors. Advanced Functional Materials, 2015, 25, 2745-2753.	7.8	80
112	Dopamine oxidation at gold electrodes: mechanism and kinetics near neutral pH. Physical Chemistry Chemical Physics, 2020, 22, 607-614.	1.3	80
113	Sono-Cathodic Stripping Voltammetry of Lead at a Polished Boron-Doped Diamond Electrode: Application to the Determination of Lead in River Sediment. Electroanalysis, 1999, 11, 1083-1088.	1.5	79
114	Characterising chemical functionality on carbon surfaces. Journal of Materials Chemistry, 2009, 19, 4875.	6.7	79
115	Electrochemical Detection of Ultratrace (Picomolar) Levels of Hg²⁺ Using a Silver Nanoparticle-Modified Glassy Carbon Electrode. Analytical Chemistry, 2017, 89, 7166-7173.	3.2	79
116	Performance of silver nanoparticles in the catalysis of the oxygen reduction reaction in neutral media: Efficiency limitation due to hydrogen peroxide escape. Nano Research, 2013, 6, 511-524.	5.8	78
117	Electrochemical Detection of Pathogenic Bacteriaâ€"Recent Strategies, Advances and Challenges. Chemistry - an Asian Journal, 2018, 13, 2758-2769.	1.7	78
118	Voltammetry at Nanoparticle and Microparticle Modified Electrodes:â€‰ Theory and Experiment. Journal of Physical Chemistry C, 2007, 111, 17008-17014.	1.5	75
119	The Copper(II)â€Catalyzed Oxidation of Glutathione. Chemistry - A European Journal, 2016, 22, 15937-15944.	1.7	75
120	Electrochemical detection of single micelles through â€˜nano-impactsâ€™. Chemical Science, 2015, 6, 5053-5058.	3.7	73
121	Get More Out of Your Data: A New Approach to Agglomeration and Aggregation Studies Using Nanoparticle Impact Experiments. ChemistryOpen, 2013, 2, 69-75.	0.9	72
122	Voltammetry at Regular Microband Electrode Arrays:â€‰ Theory and Experiment. Journal of Physical Chemistry C, 2007, 111, 12058-12066.	1.5	71
123	The use of cylindrical micro-wire electrodes for nano-impact experiments; facilitating the sub-picomolar detection of single nanoparticles. Sensors and Actuators B: Chemical, 2014, 200, 47-52.	4.0	71
124	Electroanalytical exploitation of quinoneâ€"thiol interactions: application to the selective determination of cysteine. Analyst, The, 2001, 126, 353-357.	1.7	70
125	Diffusion-Limited Currents to Nanoparticles of Various Shapes Supported on an Electrode; Spheres, Hemispheres, and Distorted Spheres and Hemispheres. Journal of Physical Chemistry C, 2007, 111, 18049-18054.	1.5	70
126	Carbon Dioxide Reduction in Room-Temperature Ionic Liquids: The Effect of the Choice of Electrode Material, Cation, and Anion. Journal of Physical Chemistry C, 2016, 120, 26442-26447.	1.5	70

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127	Influence of the diffuse double layer on steady-state voltammetry. Journal of Electroanalytical Chemistry, 2011, 661, 198-212.	1.9	69
128	Electrochemical Detection of Glutathione Using a Poly(caffeic acid) Nanocarbon Composite Modified Electrode. Electroanalysis, 2014, 26, 366-373.	1.5	69
129	The electrochemical detection of tagged nanoparticles via particle-electrode collisions: nanoelectroanalysis beyond immobilisation. Chemical Communications, 2012, 48, 2510.	2.2	68
130	The Inhibition of Calcite Dissolution/Precipitation: Mg2+ Cations. Journal of Colloid and Interface Science, 1994, 165, 445-449.	5.0	66
131	Anion Detection by Electro-Insertion intoN,N,Nâ€², Nâ€²-Tetrahexyl-Phenylenediamine (THPD) Microdroplets Studied by Voltammetry, EQCM, and SEM Techniques. Electroanalysis, 1998, 10, 821-826.	1.5	66
132	The transport limited currents at insonated electrodes. Physical Chemistry Chemical Physics, 2004, 6, 3147.	1.3	66
133	Diffuse Double Layer at Nanoelectrodes. Journal of Physical Chemistry C, 2009, 113, 17585-17589.	1.5	66
134	Electrochemical Red Blood Cell Counting: One at a Time. Angewandte Chemie - International Edition, 2016, 55, 9768-9771.	7.2	66
135	Numerical Simulation of Potential Step Chronoamperometry at Low Concentrations of Supporting Electrolyte. Journal of Physical Chemistry C, 2008, 112, 13716-13728.	1.5	65
136	Electrochemical determination of free and total glutathione in human saliva samples. Sensors and Actuators B: Chemical, 2015, 221, 962-968.	4.0	65
137	Activity of carbon electrodes towards oxygen reduction in acid: A comparative study. New Journal of Chemistry, 2011, 35, 2647.	1.4	64
138	Voltammetric and X-ray photoelectron spectroscopic fingerprinting of carboxylic acid groups on the surface of carbon nanotubes via derivatisation with arylnitro labels. Journal of Materials Chemistry, 2007, 17, 3515.	6.7	63
139	Using multiwalled carbon nanotube modified electrodes for the adsorptive striping voltammetric determination of hesperidin. Electrochimica Acta, 2009, 54, 5030-5034.	2.6	63
140	Ultrasonic effects on the electro-reduction of oxygen at a glassy carbon anthraquinone-modified electrode. The Kouteckyâ€“Levich equation applied to insonated electro-catalytic reactions. Physical Chemistry Chemical Physics, 2003, 5, 3988-3993.	1.3	62
141	The electroneutrality approximation in electrochemistry. Journal of Solid State Electrochemistry, 2011, 15, 1335-1345.	1.2	62
142	Nanoparticleâ€“Electrode Collision Processes: The Underpotential deposition of Thallium on Silver Nanoparticles in Aqueous Solution. ChemPhysChem, 2011, 12, 2085-2087.	1.0	62
143	A General Method for Electrochemical Simulations. 1. Formulation of the Strategy for Two-Dimensional Simulations. Journal of Physical Chemistry B, 1997, 101, 8941-8954.	1.2	61
144	Can Cyclic Voltammetry at Microdisc Electrodes Be Approximately Described by One-Dimensional Diffusion?. Journal of Physical Chemistry B, 1997, 101, 949-958.	1.2	61

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145	The charge transfer kinetics of the oxidation of silver and nickel nanoparticles via particleâ€“electrode impact electrochemistry. Physical Chemistry Chemical Physics, 2012, 14, 14354.	1.3	61
146	A General Method for Electrochemical Simulations. 2. Application to the Simulation of Steady-State Currents at Microdisk Electrodes: Homogeneous and Heterogeneous Kinetics. Journal of Physical Chemistry B, 1997, 101, 9606-9616.	1.2	60
147	Voltammetry of Electroactive Oil Droplets. Part II: Comparison of Experimental and Simulation Data for Coupled Ion and Electron Insertion Processes and Evidence for Microscale Convection. Electroanalysis, 2000, 12, 1017-1025.	1.5	60
148	Microwave-Enhanced Anodic Stripping Detection of Lead in a River Sediment Sample. A Mercury-Free Procedure Employing a Boron-Doped Diamond Electrode. Electroanalysis, 2001, 13, 831-835.	1.5	60
149	Nanoparticle-modified electrodes. Physical Chemistry Chemical Physics, 2010, 12, 11208.	1.3	60
150	Cyclic Voltammetry of the ECâ€² Mechanism at Hemispherical Particles and Their Arrays: The Split Wave. Journal of Physical Chemistry C, 2011, 115, 11204-11215.	1.5	60
151	Facile Synthesis of Pd Nanoparticle Modified Carbon Black for Electroanalysis: Application to the Detection of Hydrazine. Electroanalysis, 2011, 23, 1568-1578.	1.5	59
152	Voltammetry at porous electrodes: A theoretical study. Journal of Electroanalytical Chemistry, 2014, 720-721, 92-100.	1.9	59
153	Sonoelectrochemistry Understood via Nanosecond Voltammetry:Â Sono-emulsions and the Measurement of the Potential of Zero Charge of a Solid Electrode. Journal of Physical Chemistry B, 2002, 106, 5810-5813.	1.2	58
154	A mechanistic investigation into the covalent chemical derivatisation of graphite and glassy carbon surfaces using aryldiazonium salts. Journal of Physical Organic Chemistry, 2008, 21, 433-439.	0.9	58
155	Biphasic Sonoelectroanalysis: Simultaneous Extraction from, and Determination of Vanillin in Food Flavoring. Electroanalysis, 2001, 13, 899-905.	1.5	57
156	Chemical interactions between silver nanoparticles and thiols: a comparison of mercaptohexanol against cysteine. Science China Chemistry, 2014, 57, 1199-1210.	4.2	56
157	Mechanistic Determination Using Arrays of Variable-Sized Channel Microband Electrodes:â€‰ The Oxidation of Ascorbic Acid in Aqueous Solution. Journal of Physical Chemistry B, 1998, 102, 7442-7447.	1.2	55
158	Cathodic Reduction of Bisulfite and Sulfur Dioxide in Aqueous Solutions on Copper Electrodes:Â An Electrochemical ESR Study. Journal of Physical Chemistry B, 2005, 109, 18500-18506.	1.2	55
159	Recent developments in inorganic Hg 2+ detection by voltammetry. TrAC - Trends in Analytical Chemistry, 2017, 94, 161-172.	5.8	55
160	The dissolution of calcite in acid waters: mass transport versus surface control. Freshwater Biology, 1989, 22, 285-288.	1.2	54
161	Investigating the Thermodynamic Causes Behind the Anomalously Large Shifts in pKa Values of Benzoic Acid-Modified Graphite and Glassy Carbon Surfaces. Langmuir, 2007, 23, 7847-7852.	1.6	54
162	Voltammetry of multi-electron electrode processes of organic species. Journal of Electroanalytical Chemistry, 2012, 669, 73-81.	1.9	54

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163	Anomalous solubility of oxygen in acetonitrile/water mixture containing tetra-n-butylammonium perchlorate supporting electrolyte; the solubility and diffusion coefficient of oxygen in anhydrous acetonitrile and aqueous mixtures. Journal of Electroanalytical Chemistry, 2013, 688, 328-335.	1.9	54
164	Oxygen Reduction Mediated by Single Nanodroplets Containing Attomoles of Vitaminâ€…B₁₂: Electrocatalytic Nanoâ€Impacts Method. Angewandte Chemie - International Edition, 2015, 54, 7082-7085.	7.2	54
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