

Christopher Batchelor-McAuley

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

188 papers	5,450 citations	39 h-index	64 g-index
191 ext. papers	6,171 ext. citations	6.1 avg, IF	6.14 L-index

#	Paper	IF	Citations
188	Understanding Voltammetry 2011 ,		222
187	The electroanalytical detection of hydrazine: a comparison of the use of palladium nanoparticles supported on boron-doped diamond and palladium plated BDD microdisc array. <i>Analyst, The</i> , 2006 , 131, 106-10	5	221
186	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. <i>Sensors and Actuators B: Chemical</i> , 2010 , 145, 417-427	8.5	200
185	The use of copper(II) oxide nanorod bundles for the non-enzymatic voltammetric sensing of carbohydrates and hydrogen peroxide. <i>Sensors and Actuators B: Chemical</i> , 2008 , 135, 230-235	8.5	167
184	Electrochemical determination of glutathione: a review. <i>Analyst, The</i> , 2012 , 137, 2285-96	5	161
183	Electrode-particle impacts: a users guide. <i>Physical Chemistry Chemical Physics</i> , 2016 , 19, 28-43	3.6	155
182	Copper oxide nanoparticle impurities are responsible for the electroanalytical detection of glucose seen using multiwalled carbon nanotubes. <i>Sensors and Actuators B: Chemical</i> , 2008 , 132, 356-360	8.5	146
181	Koutecky-Levich analysis applied to nanoparticle modified rotating disk electrodes: Electrocatalysis or misinterpretation. <i>Nano Research</i> , 2014 , 7, 71-78	10	133
180	Hydrogen Bonding to Hexafluoroisopropanol Controls the Oxidative Strength of Hypervalent Iodine Reagents. <i>Journal of the American Chemical Society</i> , 2016 , 138, 8855-61	16.4	123
179	Reversible or not? Distinguishing agglomeration and aggregation at the nanoscale. <i>Analytical Chemistry</i> , 2015 , 87, 10033-9	7.8	100
178	The anodic stripping voltammetry of nanoparticles: electrochemical evidence for the surface agglomeration of silver nanoparticles. <i>Nanoscale</i> , 2013 , 5, 4884-93	7.7	97
177	Two-Electron, Two-Proton Oxidation of Catechol: Kinetics and Apparent Catalysis. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 1489-1495	3.8	96
176	Electrochemical observation of single collision events: fullerene nanoparticles. <i>ACS Nano</i> , 2014 , 8, 7648-56.7	5.7	91
175	Recent Advances in Voltammetry. <i>ChemistryOpen</i> , 2015 , 4, 224-60	2.3	91
174	Asymmetric Marcus-Hush theory for voltammetry. <i>Chemical Society Reviews</i> , 2013 , 42, 4894-905	58.5	88
173	In situ nanoparticle sizing with zeptomole sensitivity. <i>Analyst, The</i> , 2015 , 140, 5048-54	5	83
172	Electrochemical oxidation of guanine: electrode reaction mechanism and tailoring carbon electrode surfaces to switch between adsorptive and diffusional responses. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 7423-8	3.4	83

171	Electrochemical detection of single E. coli bacteria labeled with silver nanoparticles. <i>Biomaterials Science</i> , 2015 , 3, 816-20	7.4	77
170	Voltammetric characterization of DNA intercalators across the full pH range: anthraquinone-2,6-disulfonate and anthraquinone-2-sulfonate. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 4094-100	3.4	77
169	Electrochemical Oxidation of Adenine: A Mixed Adsorption and Diffusion Response on an Edge-Plane Pyrolytic Graphite Electrode. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 14213-14219	3.8	76
168	The physicochemical aspects of DNA sensing using electrochemical methods. <i>Biosensors and Bioelectronics</i> , 2009 , 24, 3183-90	11.8	76
167	Electrochemical detection of chloride levels in sweat using silver nanoparticles: a basis for the preliminary screening for cystic fibrosis. <i>Analyst, The</i> , 2013 , 138, 4292-7	5	68
166	Destructive nano-impacts: What information can be extracted from spike shapes?. <i>Electrochimica Acta</i> , 2016 , 199, 297-304	6.7	67
165	The use of cylindrical micro-wire electrodes for nano-impact experiments; facilitating the sub-picomolar detection of single nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2014 , 200, 47-52	8.5	66
164	Single graphene nanoplatelets: capacitance, potential of zero charge and diffusion coefficient. <i>Chemical Science</i> , 2015 , 6, 2869-2876	9.4	65
163	New electrochemical methods. <i>Analytical Chemistry</i> , 2012 , 84, 669-84	7.8	55
162	Electrochemical studies of silver nanoparticles: a guide for experimentalists and a perspective. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 616-23	3.6	54
161	Carbon Dioxide Reduction in Room-Temperature Ionic Liquids: The Effect of the Choice of Electrode Material, Cation, and Anion. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 26442-26447	3.8	52
160	Tafel analysis in practice. <i>Journal of Electroanalytical Chemistry</i> , 2018 , 826, 117-124	4.1	51
159	Voltammetric Responses of Surface-Bound and Solution-Phase Anthraquinone Moieties in the Presence of Unbuffered Aqueous Media. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 714-718	3.8	48
158	Nanoparticle impacts show high-ionic-strength citrate avoids aggregation of silver nanoparticles. <i>ChemPhysChem</i> , 2013 , 14, 3895-7	3.2	47
157	Single Nanoparticle Voltammetry: Contact Modulation of the Mediated Current. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 4296-9	16.4	45
156	Single Oxidative Collision Events of Silver Nanoparticles: Understanding the Rate-Determining Chemistry. <i>Chemistry - A European Journal</i> , 2017 , 23, 16085-16096	4.8	42
155	Calibrationless pH sensors based on nitrosophenyl and ferrocenyl co-modified screen printed electrodes. <i>Sensors and Actuators B: Chemical</i> , 2011 , 159, 251-255	8.5	42
154	The Copper(II)-Catalyzed Oxidation of Glutathione. <i>Chemistry - A European Journal</i> , 2016 , 22, 15937-15944	4.8	41

153	Chemical interactions between silver nanoparticles and thiols: a comparison of mercaptohexanol against cysteine. <i>Science China Chemistry</i> , 2014 , 57, 1199-1210	7.9	40
152	An electrochemical comparison of manganese dioxide microparticles versus nanorods and manganese dioxide nanorods: mechanistic and electrocatalytic behaviour. <i>New Journal of Chemistry</i> , 2008 , 32, 1195-1200	3.6	40
151	Nano-electrochemical detection of hydrogen or protons using palladium nanoparticles: distinguishing surface and bulk hydrogen. <i>ChemPhysChem</i> , 2006 , 7, 1081-5	3.2	40
150	Light-driven post-translational installation of reactive protein side chains. <i>Nature</i> , 2020 , 585, 530-537	50.4	40
149	Controlling voltammetric responses by electrode modification; using adsorbed acetone to switch graphite surfaces between adsorptive and diffusive modes. <i>Chemical Communications</i> , 2010 , 46, 9037-9	5.8	37
148	Rapid Method for the Quantification of Reduced and Oxidized Glutathione in Human Plasma and Saliva. <i>Analytical Chemistry</i> , 2017 , 89, 2901-2908	7.8	35
147	Anthraquinone monosulfonate adsorbed on graphite shows two very different rates of electron transfer: surface heterogeneity due to basal and edge plane sites. <i>Chemistry - A European Journal</i> , 2011 , 17, 7320-6	4.8	35
146	Nickel Nanoparticle Modified BDD Electrode Shows an Electrocatalytic Response to Adenine and DNA in Aqueous Alkaline Media. <i>Electroanalysis</i> , 2011 , 23, 931-938	3	34
145	Electrooxidative decarboxylation of vanillylmandelic acid: voltammetric differentiation between the structurally related compounds homovanillic acid and vanillylmandelic acid. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 9713-9	3.4	33
144	Lithium-Ion-Transfer Kinetics of Single LiMnO ₂ Particles. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 641-644	16.4	32
143	Electrochemistry of single droplets of inverse (water-in-oil) emulsions. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 15662-15666	3.6	31
142	Understanding Nano-Impact Current Spikes: Electrochemical Doping of Impacting Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 17029-17034	3.8	30
141	Simultaneous electrochemical and 3D optical imaging of silver nanoparticle oxidation. <i>Chemical Physics Letters</i> , 2014 , 597, 20-25	2.5	30
140	A quantitative methodology for the study of particle-electrode impacts. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 13537-13546	3.6	29
139	A Critical Evaluation of the Interpretation of Electrocatalytic Nanoimpacts. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 17756-17763	3.8	29
138	Potassium (De-)insertion Processes in Prussian Blue Particles: Ensemble versus Single Nanoparticle Behaviour. <i>Chemistry - A European Journal</i> , 2017 , 23, 14338-14344	4.8	29
137	Understanding electroanalytical measurements in authentic human saliva leading to the detection of salivary uric acid. <i>Sensors and Actuators B: Chemical</i> , 2018 , 262, 404-410	8.5	28
136	Organic Nanoparticles: Mechanism of Electron Transfer to Indigo Nanoparticles. <i>ChemElectroChem</i> , 2014 , 1, 714-717	4.3	28

135	Improving Formate and Methanol Fuels: Catalytic Activity of Single Pd Coated Carbon Nanotubes. <i>ACS Catalysis</i> , 2016 , 6, 7118-7124	13.1	28
134	Nanoparticle Capping Agent Dynamics and Electron Transfer: Polymer-Gated Oxidation of Silver Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 18808-18815	3.8	27
133	Are Nanoparticles Spherical or Quasi-Spherical?. <i>Chemistry - A European Journal</i> , 2015 , 21, 10741-6	4.8	27
132	The synthesis and characterisation of controlled thin sub-monolayer films of 2-anthraquinonyl groups on graphite surfaces. <i>New Journal of Chemistry</i> , 2011 , 35, 2462	3.6	27
131	Semiquinone intermediates in the two-electron reduction of quinones in aqueous media and their exceptionally high reactivity towards oxygen reduction. <i>ChemPhysChem</i> , 2011 , 12, 1255-7	3.2	27
130	Diffusional impacts of nanoparticles on microdisc and microwire electrodes: The limit of detection and first passage statistics. <i>Journal of Electroanalytical Chemistry</i> , 2015 , 755, 136-142	4.1	26
129	Electrochemical quantification of iodide ions in synthetic urine using silver nanoparticles: a proof-of-concept. <i>Analyst</i> , 2014 , 139, 3986-90	5	26
128	Multiwalled Carbon Nanotube Modified Electrodes for the Adsorptive Stripping Voltammetric Determination and Quantification of Curcumin in Turmeric. <i>Electroanalysis</i> , 2017 , 29, 1049-1055	3	25
127	The fate of silver nanoparticles in authentic human saliva. <i>Nanotoxicology</i> , 2018 , 12, 305-311	5.3	25
126	Hydrogen Oxidation Reaction on Platinum Nanoparticles: Understanding the Kinetics of Electrocatalytic Reactions via Nano-Impacts. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 13148-13158	3.8	25
125	The Subtleties of the Reversible Hydrogen Evolution Reaction Arising from the Nonunity Stoichiometry. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 9402-9410	3.8	24
124	Some thoughts about reporting the electrocatalytic performance of nanomaterials. <i>Applied Materials Today</i> , 2020 , 18, 100404	6.6	24
123	Fluorescence Monitored Voltammetry of Single Attoliter Droplets. <i>Analytical Chemistry</i> , 2016 , 88, 11213-11221	7.1	23
122	'Sticky electrodes' for the detection of silver nanoparticles. <i>Nanotechnology</i> , 2013 , 24, 295502	3.4	23
121	Nanoparticle-Impact Experiments are Highly Sensitive to the Presence of Adsorbed Species on Electrode Surfaces. <i>ChemElectroChem</i> , 2014 , 1, 1057-1062	4.3	22
120	A flow system for hydrogen peroxide production at reticulated vitreous carbon via electroreduction of oxygen. <i>Journal of Solid State Electrochemistry</i> , 2014 , 18, 1215-1221	2.6	22
119	Non-Invasive Probing of Nanoparticle Electrostatics. <i>ChemElectroChem</i> , 2015 , 2, 112-118	4.3	21
118	Single Nanotube Voltammetry: Current Fluctuations Are Due to Physical Motion of the Nanotube. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 6281-6286	3.8	21

117	Reply to comments contained in 'Are the reactions of quinones on graphite adiabatic?' by N.B. Luque, W. Schmickler [Electrochim. Acta xx (2012) yyy]. <i>Electrochimica Acta</i> , 2013 , 88, 895-898	6.7	21
116	Use of 'split waves' for the measurement of electrocatalytic kinetics: methyl viologen mediated oxygen reduction on a boron-doped diamond electrode. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 7760-7	3.6	21
115	Analytical Solutions for the Study of Multielectron Transfer Processes by Staircase, Cyclic, and Differential Voltammetries at Disc Microelectrodes. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 11470-11479	3.8	21
114	The indirect electrochemical detection and quantification of DNA through its co-adsorption with anthraquinone monosulphonate on graphitic and multi-walled carbon nanotube screen printed electrodes. <i>Biosensors and Bioelectronics</i> , 2011 , 26, 4198-203	11.8	21
113	Quantifying Single-Carbon Nanotube-Electrode Contact via the Nanoimpact Method. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 507-511	6.4	20
112	Surface area measurements of graphene and graphene oxide samples: Dopamine adsorption as a complement or alternative to methylene blue?. <i>Applied Materials Today</i> , 2020 , 18, 100506	6.6	20
111	Nanorod Aspect Ratios Determined by the Nano-Impact Technique. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 7002-5	16.4	20
110	Supported Microwires for Electroanalysis: Sensitive Amperometric Detection of Reduced Glutathione. <i>Analytical Chemistry</i> , 2017 , 89, 3780-3786	7.8	19
109	Electrical double layer effects on ion transfer reactions. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 9829-37	3.6	19
108	Reaction Layer Imaging Using Fluorescence Electrochemical Microscopy. <i>Analytical Chemistry</i> , 2017 , 89, 6870-6877	7.8	18
107	Amperometric micro pH measurements in oxygenated saliva. <i>Analyst, The</i> , 2017 , 142, 2828-2835	5	18
106	Altered Electrochemistry at Graphene- or Alumina-Modified Electrodes: Catalysis vs Electrocatalysis in Multistep Electrode Processes. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 13777-13784	3.8	18
105	Metal-halide Nanoparticle Formation: Electrolytic and Chemical Synthesis of Mercury(I) Chloride Nanoparticles. <i>ChemElectroChem</i> , 2015 , 2, 522-528	4.3	18
104	Square wave voltammetry at disc microelectrodes for characterization of two electron redox processes. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 8319-27	3.6	18
103	Marcus-Hush-Chidsey theory of electron transfer to and from species bound at a non-uniform electrode surface: Theory and experiment. <i>Chemical Physics Letters</i> , 2011 , 517, 108-112	2.5	18
102	The activity of non-metallic boron-doped diamond electrodes with sub-micron scale heterogeneity and the role of the morphology of sp ² impurities. <i>Carbon</i> , 2016 , 110, 148-154	10.4	18
101	Optimising amperometric pH sensing in blood samples: an iridium oxide electrode for blood pH sensing. <i>Analyst, The</i> , 2019 , 144, 1386-1393	5	17
100	Influence of Adsorption Kinetics upon the Electrochemically Reversible Hydrogen Oxidation Reaction. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 16121-16130	3.8	17

99	Stochastic detection and characterisation of individual ferrocene derivative tagged graphene nanoplatelets. <i>Analyst, The</i> , 2016 , 141, 2696-703	5	17
98	Band Electrodes in Sensing Applications: Response Characteristics and Band Fabrication Methods. <i>ACS Sensors</i> , 2019 , 4, 2250-2266	9.2	17
97	Selective Curcuminoid Separation and Detection via Nickel Complexation and Adsorptive Stripping Voltammetry. <i>Electroanalysis</i> , 2012 , 24, 2244-2248	3	17
96	The electrochemistry of quinizarin revealed through its mediated reduction of oxygen. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 19891-5	11.5	17
95	Role of Nanomorphology and Interfacial Structure of Platinum Nanoparticles in Catalyzing the Hydrogen Oxidation Reaction. <i>ACS Catalysis</i> , 2018 , 8, 6192-6202	13.1	17
94	Diffusional Nanoimpacts: The Stochastic Limit. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 14400-14410	3.8	16
93	Thin-Film Modified Rotating Disk Electrodes: Models of Electron-Transfer Kinetics for Passive and Electroactive Films. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 30034-30038	3.8	16
92	The contrasting behaviour of polycrystalline bulk gold and gold nanoparticle modified electrodes towards the underpotential deposition of thallium. <i>New Journal of Chemistry</i> , 2008 , 32, 941	3.6	16
91	Porosity controls the catalytic activity of platinum nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 20415-20421	3.6	15
90	Can saliva testing replace blood measurements for health monitoring? Insights from a correlation study of salivary and whole blood glutathione in humans. <i>Analyst, The</i> , 2016 , 141, 4707-12	5	15
89	The influence of substrate effects when investigating new nanoparticle modified electrodes exemplified by the electroanalytical determination of aspirin on NiO nanoparticles supported on graphite. <i>Electrochemistry Communications</i> , 2008 , 10, 1129-1131	5.1	15
88	Characterising porosity in platinum nanoparticles. <i>Nanoscale</i> , 2019 , 11, 17791-17799	7.7	15
87	Lithium-Ion-Transfer Kinetics of Single LiMn2O4 Particles. <i>Angewandte Chemie</i> , 2017 , 129, 656-659	3.6	14
86	Individual Detection and Characterization of Non-Electrocatalytic, Redox-Inactive Particles in Solution by using Electrochemistry. <i>ChemElectroChem</i> , 2018 , 5, 410-417	4.3	14
85	A proof-of-concept Using pre-created nucleation centres to improve the limit of detection in anodic stripping voltammetry. <i>Sensors and Actuators B: Chemical</i> , 2014 , 193, 315-319	8.5	14
84	Voltammetric Study of the Influence of Various Phosphate Anions on Silver Nanoparticle Oxidation. <i>ChemistryOpen</i> , 2015 , 4, 595-9	2.3	14
83	Electrochemical detection and quantification of gingerol species in ginger (<i>Zingiber officinale</i>) using multiwalled carbon nanotube modified electrodes. <i>Analyst, The</i> , 2016 , 141, 6321-6328	5	13
82	Halogen mediated voltammetric oxidation of biological thiols and disulfides. <i>Analyst, The</i> , 2016 , 141, 144-9	5	13

81	Thin film-modified electrodes: a model for the charge transfer resistance in electrochemical impedance spectroscopy. <i>Journal of Solid State Electrochemistry</i> , 2014 , 18, 3239-3243	2.6	13
80	Silver Nanoparticle Detection in Real-World Environments via Particle Impact Electrochemistry. <i>ACS Sensors</i> , 2019 , 4, 464-470	9.2	13
79	The Surface Energy of Single Nanoparticles Probed via Anodic Stripping Voltammetry. <i>ChemElectroChem</i> , 2014 , 1, 87-89	4.3	12
78	Single Nanoparticle Voltammetry: Contact Modulation of the Mediated Current. <i>Angewandte Chemie</i> , 2016 , 128, 4368-4371	3.6	12
77	New Insights into Fundamental Electron Transfer from Single Nanoparticle Voltammetry. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 1554-8	6.4	12
76	Optimising carbon electrode materials for adsorptive stripping voltammetry. <i>Applied Materials Today</i> , 2017 , 7, 60-66	6.6	11
75	Improving Limits of Detection. Microdisc versus Microcylinder Electrodes. <i>Electroanalysis</i> , 2017 , 29, 1006-1013	10.13	11
74	Tafel/Volmer Electrode Reactions: The Influence of Electron-Transfer Kinetics. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 22415-22424	3.8	11
73	Singlet Oxygen and the Origin of Oxygen Functionalities on the Surface of Carbon Electrodes. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 6270-6273	16.4	11
72	Shape and size of non-spherical silver nanoparticles: implications for calculating nanoparticle number concentrations. <i>Nanoscale</i> , 2018 , 10, 15943-15947	7.7	11
71	Coupled Optical and Electrochemical Probing of Silver Nanoparticle Destruction in a Reaction Layer. <i>ChemistryOpen</i> , 2018 , 7, 370-380	2.3	11
70	Ferrocene Aryl Derivatives for the Redox Tagging of Graphene Nanoplatelets. <i>Electroanalysis</i> , 2016 , 28, 197-202	3	11
69	Hydrogen peroxide reduction on single platinum nanoparticles. <i>Chemical Science</i> , 2020 , 11, 4416-4421	9.4	10
68	Diffusional transport to and through thin-layer nanoparticle film modified electrodes: capped CdSe nanoparticle modified electrodes. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 18034-41	3.6	10
67	Aqueous Voltammetry in the Near Absence of Electrolyte. <i>Chemistry - A European Journal</i> , 2017 , 23, 15222-15226	15.226	10
66	Improving Single-Carbon-Nanotube-Electrode Contacts Using Molecular Electronics. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 3908-3911	6.4	10
65	Imaging Electrode Heterogeneity Using Chemically Confined Fluorescence Electrochemical Microscopy. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 6124-6127	6.4	10
64	The adsorption of quinizarin on boron-doped diamond. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 2375-80	3.6	10

63	Simultaneous activity and surface area measurements on single mesoporous nanoparticle aggregates. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 23847-23850	3.6	10
62	Fluorescence Electrochemical Microscopy: Capping Agent Effects with Ethidium Bromide/DNA Capped Silver Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 12751-12754	16.4	9
61	Dynamics of Silver Nanoparticles in Aqueous Solution in the Presence of Metal Ions. <i>Analytical Chemistry</i> , 2017 , 89, 10208-10215	7.8	9
60	Ultra-small Palladium Nanoparticle Decorated Carbon Nanotubes: Conductivity and Reactivity. <i>ChemPhysChem</i> , 2015 , 16, 2322-5	3.2	9
59	Quantifying charge transfer to nanostructures: Polyaniline nanotubes. <i>Applied Materials Today</i> , 2017 , 7, 239-245	6.6	8
58	A thermostated cell for electrochemistry: minimising natural convection and investigating the role of evaporation and radiation. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 11794-11804	3.6	8
57	The solution phase aggregation of graphene nanoplates. <i>Applied Materials Today</i> , 2018 , 10, 122-126	6.6	8
56	Catalytic Single-Particle Nano-Impacts: Theory and Experiment. Poly(vinylferrocene)-Modified Graphene Nanoplatelet Mediated L-Cysteine Oxidation. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 20216-20223	3.8	8
55	Nanoimpacts Reveal the Electron-Transfer Kinetics of the Ferrocene/Ferrocenium Couple Immobilised on Graphene Nanoplatelets. <i>ChemElectroChem</i> , 2016 , 3, 1478-1483	4.3	8
54	Single Nanoparticle Detection in Ionic Liquids. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 1959-1965	3.8	8
53	Electrochemical Detection and Characterisation of Polymer Nanoparticles. <i>Electroanalysis</i> , 2014 , 26, 2483-253	3.5	8
52	Anodic stripping voltammetry of silver in the absence of electrolytes: Theory and experiment. <i>Journal of Electroanalytical Chemistry</i> , 2018 , 830-831, 122-130	4.1	8
51	Electrochemical measurement of the size of microband electrodes: A theoretical study. <i>Journal of Electroanalytical Chemistry</i> , 2019 , 840, 279-284	4.1	7
50	Singlet Oxygen and the Origin of Oxygen Functionalities on the Surface of Carbon Electrodes. <i>Angewandte Chemie</i> , 2018 , 130, 6378-6381	3.6	7
49	Measuring Oxygen Solubility in Micelles. <i>ChemElectroChem</i> , 2016 , 3, 105-109	4.3	7
48	Salivary glutathione in bipolar disorder: A pilot study. <i>Journal of Affective Disorders</i> , 2018 , 238, 277-280	6.6	7
47	Electrochemical Behavior of Two-Electron Redox Processes by Differential Pulse Techniques at Microelectrodes. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 1070-1079	3.8	7
46	Edge plane pyrolytic graphite electrode covalently modified with 2-anthraquinonyl groups: theory and experiment. <i>ChemPhysChem</i> , 2011 , 12, 2806-15	3.2	7

45	Handheld electrochemical device for the determination of the strength of garlic. <i>Sensors and Actuators B: Chemical</i> , 2016 , 232, 138-142	8.5	7
44	Simulated low-support voltammetry: Deviations from Ohm's Law. <i>Journal of Electroanalytical Chemistry</i> , 2018 , 830-831, 88-94	4.1	7
43	Electrochemical Measurement of the Dissolved Oxygen Concentration in Water in the Absence of Deliberately Added Supporting Electrolyte. <i>Electroanalysis</i> , 2017 , 29, 1418-1425	3	6
42	Voltammetric Peak Heights of the ProtonHydrogen Redox Couple: A Comprehensive Analysis. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 23203-23210	3.8	6
41	Diffusion to a cube: A 3D implicit finite difference method. <i>Journal of Electroanalytical Chemistry</i> , 2020 , 877, 114607	4.1	6
40	Comparing the effect of different surfactants on the aggregation and electrical contact properties of graphene nanoplatelets. <i>Applied Materials Today</i> , 2018 , 12, 163-167	6.6	6
39	Particle-electrode impacts: Evidencing partial versus complete oxidation via variable temperature studies. <i>Journal of Electroanalytical Chemistry</i> , 2018 , 823, 492-498	4.1	6
38	Electrochemical impacts complement light scattering techniques for in situ nanoparticle sizing. <i>Nanoscale</i> , 2019 , 11, 1720-1727	7.7	5
37	Voltammetric demonstration of thermally induced natural convection in aqueous solution. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 9969-9974	3.6	5
36	Electrocatalysis via Intrinsic Surface Quinones Mediating Electron Transfer to and from Carbon Electrodes. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 1497-1501	6.4	5
35	Correction: Chemical analysis in saliva and the search for salivary biomarkers - a tutorial review. <i>Analyst, The</i> , 2018 , 143, 777-783	5	5
34	Glassy carbon tubular electrodes for the reduction of oxygen to hydrogen peroxide. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 7854-65	3.6	5
33	Nitrite-Enhanced Charge Transfer to and from Single Polyaniline Nanotubes. <i>Chemistry - A European Journal</i> , 2017 , 23, 17823-17828	4.8	5
32	Opto-Electrochemical Dissolution Reveals Coccolith Calcium Carbonate Content. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 20999-21006	16.4	5
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