

# Christopher Batchelor-McAuley

## List of Publications by Year in Descending Order

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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.

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

| #   | Paper  | IF   | Citations |
|-----|--|------|-----------|
| 188 | Substrate mediated dissolution of redox active nanoparticles; electron transfer over long distances. <i>Nano Research</i> , <b>2022</b> , 15, 429  | 10   | 2         |
| 187 | A new approach to characterising the porosity of particle modified electrodes: Potential step chronoamperometry and the diffusion indicator. <i>Applied Materials Today</i> , <b>2021</b> , 25, 101249                       | 6.6  | 1         |
| 186 | Voltammetry in sheep's blood: Membrane-free amperometric measurement of O concentration.. <i>Talanta</i> , <b>2021</b> , 239, 123127   | 6.2  | 0         |
| 185 | The steady-state diffusional flux to isolated square cuboids in solution and supported on an inert substrate. <i>Journal of Electroanalytical Chemistry</i> , <b>2021</b> , 115818   | 4.1  | 2         |
| 184 | Opto-Electrochemical Dissolution Reveals Coccolith Calcium Carbonate Content. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 21167-21174  | 3.6  | 1         |
| 183 | Opto-Electrochemical Dissolution Reveals Coccolith Calcium Carbonate Content. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 20999-21006   | 16.4 | 5         |
| 182 | Methanol oxidation at single platinum nanoparticles. <i>Journal of Electroanalytical Chemistry</i> , <b>2021</b> , 896, 115438   | 4.1  | 2         |
| 181 | Characterising Fickian Diffusion On the Surface of a Sphere. <i>Journal of Electroanalytical Chemistry</i> , <b>2021</b> , 115738  | 4.1  | 1         |
| 180 | Towards Direct Electroanalysis in Seawater: Understanding the Role of the Buffer Capacity of Seawater in Proton-Coupled Electron Transfer Reactions. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 27949-27958 | 18.8 | 5         |
| 179 | Diffusion to a cube: A 3D implicit finite difference method. <i>Journal of Electroanalytical Chemistry</i> , <b>2020</b> , 877, 114607   | 4.1  | 6         |
| 178 | Bipolar Nanoimpact Transients: Controlling the Redox Potential of Nanoparticles in Solution. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 14043-14053   | 3.8  | 3         |
| 177 | Hydrogen peroxide reduction on single platinum nanoparticles. <i>Chemical Science</i> , <b>2020</b> , 11, 4416-4421  | 9.4  | 10        |
| 176 | Electrocatalysis via Intrinsic Surface Quinones Mediating Electron Transfer to and from Carbon Electrodes. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 1497-1501  | 6.4  | 5         |
| 175 | Visualising electrochemical reaction layers: mediated vs. direct oxidation. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 12422-12433   | 3.6  | 2         |
| 174 | Surface area measurements of graphene and graphene oxide samples: Dopamine adsorption as a complement or alternative to methylene blue?. <i>Applied Materials Today</i> , <b>2020</b> , 18, 100506                           | 6.6  | 20        |
| 173 | Electrochemical Characterisation of Co@Co(OH) <sub>2</sub> Core-Shell Nanoparticles and their Aggregation in Solution. <i>ChemElectroChem</i> , <b>2020</b> , 7, 4259-4268   | 4.3  | 2         |
| 172 | Mass-Transport-Corrected Transfer Coefficients: A Fully General Approach. <i>ChemElectroChem</i> , <b>2020</b> , 7, 3844-3851  | 4.3  | 3         |

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| 171 | Light-driven post-translational installation of reactive protein side chains. <i>Nature</i> , <b>2020</b> , 585, 530-537  | 50.4 | 40 |
| 170 | Some thoughts about reporting the electrocatalytic performance of nanomaterials. <i>Applied Materials Today</i> , <b>2020</b> , 18, 100404  | 6.6  | 24 |
| 169 | Characterising and evidencing the effects of porosity in nano-electrochemistry. <i>Current Opinion in Electrochemistry</i> , <b>2020</b> , 22, 35-43  | 7.2  | 2  |
| 168 | Porosity controls the catalytic activity of platinum nanoparticles. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 20415-20421  | 3.6  | 15 |
| 167 | Metal deposition and stripping under self-supported conditions: Experiment and simulation. <i>Journal of Electroanalytical Chemistry</i> , <b>2019</b> , 849, 113370  | 4.1  | 2  |
| 166 | Electrochemical impacts complement light scattering techniques for in situ nanoparticle sizing. <i>Nanoscale</i> , <b>2019</b> , 11, 1720-1727  | 7.7  | 5  |
| 165 | Optimising amperometric pH sensing in blood samples: an iridium oxide electrode for blood pH sensing. <i>Analyst, The</i> , <b>2019</b> , 144, 1386-1393  | 5    | 17 |
| 164 | Voltammetric demonstration of thermally induced natural convection in aqueous solution. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 9969-9974  | 3.6  | 5  |
| 163 | Electrochemical measurement of the size of microband electrodes: A theoretical study. <i>Journal of Electroanalytical Chemistry</i> , <b>2019</b> , 840, 279-284  | 4.1  | 7  |
| 162 | Band Electrodes in Sensing Applications: Response Characteristics and Band Fabrication Methods. <i>ACS Sensors</i> , <b>2019</b> , 4, 2250-2266   | 9.2  | 17 |
| 161 | Fluoro-electrochemical microscopy reveals group specific differential susceptibility of phytoplankton towards oxidative damage. <i>Chemical Science</i> , <b>2019</b> , 10, 7988-7993                       | 9.4  | 3  |
| 160 | Characterising porosity in platinum nanoparticles. <i>Nanoscale</i> , <b>2019</b> , 11, 17791-17799   | 7.7  | 15 |
| 159 | Silver Nanoparticle Detection in Real-World Environments via Particle Impact Electrochemistry. <i>ACS Sensors</i> , <b>2019</b> , 4, 464-470  | 9.2  | 13 |
| 158 | Singlet Oxygen and the Origin of Oxygen Functionalities on the Surface of Carbon Electrodes. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 6378-6381  | 3.6  | 7  |
| 157 | Singlet Oxygen and the Origin of Oxygen Functionalities on the Surface of Carbon Electrodes. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 6270-6273                                 | 16.4 | 11 |
| 156 | A thermostated cell for electrochemistry: minimising natural convection and investigating the role of evaporation and radiation. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 11794-11804 | 3.6  | 8  |
| 155 | The fate of silver nanoparticles in authentic human saliva. <i>Nanotoxicology</i> , <b>2018</b> , 12, 305-311   | 5.3  | 25 |
| 154 | Understanding electroanalytical measurements in authentic human saliva leading to the detection of salivary uric acid. <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 262, 404-410                | 8.5  | 28 |

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| 153 | The solution phase aggregation of graphene nanoplates. <i>Applied Materials Today</i> , <b>2018</b> , 10, 122-126  | 6.6  | 8  |
| 152 | Individual Detection and Characterization of Non-Electrocatalytic, Redox-Inactive Particles in Solution by using Electrochemistry. <i>ChemElectroChem</i> , <b>2018</b> , 5, 410-417         | 4.3  | 14 |
| 151 | Correction: Chemical analysis in saliva and the search for salivary biomarkers - a tutorial review. <i>Analyst, The</i> , <b>2018</b> , 143, 777-783   | 5    | 5  |
| 150 | Comparing the effect of different surfactants on the aggregation and electrical contact properties of graphene nanoplatelets. <i>Applied Materials Today</i> , <b>2018</b> , 12, 163-167     | 6.6  | 6  |
| 149 | A quantitative methodology for the study of particle-electrode impacts. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 13537-13546   | 3.6  | 29 |
| 148 | Particle-electrode impacts: Evidencing partial versus complete oxidation via variable temperature studies. <i>Journal of Electroanalytical Chemistry</i> , <b>2018</b> , 823, 492-498        | 4.1  | 6  |
| 147 | Shape and size of non-spherical silver nanoparticles: implications for calculating nanoparticle number concentrations. <i>Nanoscale</i> , <b>2018</b> , 10, 15943-15947                      | 7.7  | 11 |
| 146 | Tafel analysis in practice. <i>Journal of Electroanalytical Chemistry</i> , <b>2018</b> , 826, 117-124   | 4.1  | 51 |
| 145 | Coupled Optical and Electrochemical Probing of Silver Nanoparticle Destruction in a Reaction Layer. <i>ChemistryOpen</i> , <b>2018</b> , 7, 370-380  | 2.3  | 11 |
| 144 | Salivary glutathione in bipolar disorder: A pilot study. <i>Journal of Affective Disorders</i> , <b>2018</b> , 238, 277-280  | 6.6  | 7  |
| 143 | Anodic stripping voltammetry of silver in the absence of electrolytes: Theory and experiment. <i>Journal of Electroanalytical Chemistry</i> , <b>2018</b> , 830-831, 122-130                 | 4.1  | 8  |
| 142 | Electrolyte-Induced Electrical Disconnection between Single Graphene Nanoplatelets and an Electrode. <i>Journal of Physical Chemistry Letters</i> , <b>2018</b> , 9, 5822-5826               | 6.4  | 2  |
| 141 | Simulated low-support voltammetry: Deviations from Ohm's Law. <i>Journal of Electroanalytical Chemistry</i> , <b>2018</b> , 830-831, 88-94   | 4.1  | 7  |
| 140 | Simultaneous activity and surface area measurements on single mesoporous nanoparticle aggregates. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 23847-23850                 | 3.6  | 10 |
| 139 | Role of Nanomorphology and Interfacial Structure of Platinum Nanoparticles in Catalyzing the Hydrogen Oxidation Reaction. <i>ACS Catalysis</i> , <b>2018</b> , 8, 6192-6202                  | 13.1 | 17 |
| 138 | Quantifying Single-Carbon Nanotube-Electrode Contact via the Nanoimpact Method. <i>Journal of Physical Chemistry Letters</i> , <b>2017</b> , 8, 507-511                                      | 6.4  | 20 |
| 137 | Electrochemical Measurement of the Dissolved Oxygen Concentration in Water in the Absence of Deliberately Added Supporting Electrolyte. <i>Electroanalysis</i> , <b>2017</b> , 29, 1418-1425 | 3    | 6  |
| 136 | Supported Microwires for Electroanalysis: Sensitive Amperometric Detection of Reduced Glutathione. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 3780-3786                                 | 7.8  | 19 |

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| 135 | Rapid Method for the Quantification of Reduced and Oxidized Glutathione in Human Plasma and Saliva. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 2901-2908  | 7.8   | 35 |
| 134 | Quantifying charge transfer to nanostructures: Polyaniline nanotubes. <i>Applied Materials Today</i> , <b>2017</b> , 7, 239-245  | 6.6   | 8  |
| 133 | Lithium-Ion-Transfer Kinetics of Single LiMn <sub>2</sub> O <sub>4</sub> Particles. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 656-659  | 3.6   | 14 |
| 132 | Reaction Layer Imaging Using Fluorescence Electrochemical Microscopy. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 6870-6877  | 7.8   | 18 |
| 131 | Electrochemistry of single droplets of inverse (water-in-oil) emulsions. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 15662-15666  | 3.6   | 31 |
| 130 | Optimising carbon electrode materials for adsorptive stripping voltammetry. <i>Applied Materials Today</i> , <b>2017</b> , 7, 60-66  | 6.6   | 11 |
| 129 | Lithium-Ion-Transfer Kinetics of Single LiMn O Particles. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 641-644   | 16.4  | 32 |
| 128 | Improving Limits of Detection. Microdisc versus Microcylinder Electrodes. <i>Electroanalysis</i> , <b>2017</b> , 29, 1006-1013   | 10.13 | 11 |
| 127 | Multiwalled Carbon Nanotube Modified Electrodes for the Adsorptive Stripping Voltammetric Determination and Quantification of Curcumin in Turmeric. <i>Electroanalysis</i> , <b>2017</b> , 29, 1049-1055 | 3     | 25 |
| 126 | Immobilised Electrocatalysts: Nafion Particles Doped with Ruthenium(II) Tris(2,2'-bipyridyl). <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 17605-17611                                      | 4.8   | 4  |
| 125 | Fluorescence Electrochemical Microscopy: Capping Agent Effects with Ethidium Bromide/DNA Capped Silver Nanoparticles. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 12925-12928                          | 3.6   | 4  |
| 124 | Fluorescence Electrochemical Microscopy: Capping Agent Effects with Ethidium Bromide/DNA Capped Silver Nanoparticles. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 12751-12754   | 16.4  | 9  |
| 123 | Single Oxidative Collision Events of Silver Nanoparticles: Understanding the Rate-Determining Chemistry. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 16085-16096                           | 4.8   | 42 |
| 122 | Dynamics of Silver Nanoparticles in Aqueous Solution in the Presence of Metal Ions. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 10208-10215  | 7.8   | 9  |
| 121 | Aqueous Voltammetry in the Near Absence of Electrolyte. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 15222-15226  | 4.8   | 26 |
| 120 | Potassium (De-)insertion Processes in Prussian Blue Particles: Ensemble versus Single Nanoparticle Behaviour. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 14338-14344                      | 4.8   | 29 |
| 119 | Improving Single-Carbon-Nanotube-Electrode Contacts Using Molecular Electronics. <i>Journal of Physical Chemistry Letters</i> , <b>2017</b> , 8, 3908-3911   | 6.4   | 10 |
| 118 | Imaging Electrode Heterogeneity Using Chemically Confined Fluorescence Electrochemical Microscopy. <i>Journal of Physical Chemistry Letters</i> , <b>2017</b> , 8, 6124-6127                             | 6.4   | 10 |

- 117 Martian Redox Chemistry: Oxygen Reduction in Low-Temperature Magnesium Perchlorate Brines. *Journal of Physical Chemistry Letters*, **2017**, 8, 6171-6175 6.4 1
- 116 Nitrite-Enhanced Charge Transfer to and from Single Polyaniline Nanotubes. *Chemistry - A European Journal*, **2017**, 23, 17823-17828 4.8 5
- 115 Amperometric micro pH measurements in oxygenated saliva. *Analyst, The*, **2017**, 142, 2828-2835 5 18
- 114 Catalytic Single-Particle Nano-Impacts: Theory and Experiment. Poly(vinylferrocene)-Modified Graphene Nanoplatelet Mediated L-Cysteine Oxidation. *Journal of Physical Chemistry C*, **2016**, 120, 20216-20223<sup>8</sup> 3.8 8
- 113 The Copper(II)-Catalyzed Oxidation of Glutathione. *Chemistry - A European Journal*, **2016**, 22, 15937-15944<sup>8</sup> 4.8 41
- 112 Understanding Nano-Impact Current Spikes: Electrochemical Doping of Impacting Nanoparticles. *Journal of Physical Chemistry C*, **2016**, 120, 17029-17034 3.8 30
- 111 Nanoimpacts Reveal the Electron-Transfer Kinetics of the Ferrocene/Ferrocenium Couple Immobilised on Graphene Nanoplatelets. *ChemElectroChem*, **2016**, 3, 1478-1483 4.3 8
- 110 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 3.8 52
- 109 Electrochemical detection and quantification of gingerol species in ginger (*Zingiber officinale*) using multiwalled carbon nanotube modified electrodes. *Analyst, The*, **2016**, 141, 6321-6328 5 13
- 108 Fluorescence Monitored Voltammetry of Single Attoliter Droplets. *Analytical Chemistry*, **2016**, 88, 11213-11221<sup>13</sup> 7.1 13
- 107 Can saliva testing replace blood measurements for health monitoring? Insights from a correlation study of salivary and whole blood glutathione in humans. *Analyst, The*, **2016**, 141, 4707-12 5 15
- 106 Hydrogen Oxidation Reaction on Platinum Nanoparticles: Understanding the Kinetics of Electrocatalytic Reactions via Nano-Impacts. *Journal of Physical Chemistry C*, **2016**, 120, 13148-13158 3.8 25
- 105 Nanoparticle Capping Agent Controlled Electron-Transfer Dynamics in Ionic Liquids. *Chemistry - A European Journal*, **2016**, 22, 5976-81 4.8 3
- 104 Electrochemical bromination of organosulfur containing species for the determination of the strength of garlic (*A. sativum*). *Food Chemistry*, **2016**, 199, 817-21 8.5 2
- 103 Measuring Oxygen Solubility in Micelles. *ChemElectroChem*, **2016**, 3, 105-109 4.3 7
- 102 Destructive nano-impacts: What information can be extracted from spike shapes?. *Electrochimica Acta*, **2016**, 199, 297-304 6.7 67
- 101 Stochastic detection and characterisation of individual ferrocene derivative tagged graphene nanoplatelets. *Analyst, The*, **2016**, 141, 2696-703 5 17
- 100 Single Nanoparticle Detection in Ionic Liquids. *Journal of Physical Chemistry C*, **2016**, 120, 1959-1965 3.8 8

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| 99 | Single Nanotube Voltammetry: Current Fluctuations Are Due to Physical Motion of the Nanotube. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 6281-6286   | 3.8  | 21  |
| 98 | Halogen mediated voltammetric oxidation of biological thiols and disulfides. <i>Analyst, The</i> , <b>2016</b> , 141, 144-9   | 5    | 13  |
| 97 | Electrode-particle impacts: a users guide. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 19, 28-43   | 3.6  | 155 |
| 96 | Single Nanoparticle Voltammetry: Contact Modulation of the Mediated Current. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 4368-4371  | 3.6  | 12  |
| 95 | Single Nanoparticle Voltammetry: Contact Modulation of the Mediated Current. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 4296-9  | 16.4 | 45  |
| 94 | Nanorod Aspect Ratios Determined by the Nano-Impact Technique. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 7116-7119  | 16.4 | 20  |
| 93 | Nanorod Aspect Ratios Determined by the Nano-Impact Technique. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 7002-5  | 16.4 | 20  |
| 92 | Hydrogen Bonding to Hexafluoroisopropanol Controls the Oxidative Strength of Hypervalent Iodine Reagents. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 8855-61                      | 16.4 | 123 |
| 91 | Handheld electrochemical device for the determination of the strength of garlic. <i>Sensors and Actuators B: Chemical</i> , <b>2016</b> , 232, 138-142  | 8.5  | 7   |
| 90 | Electrical double layer effects on ion transfer reactions. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 9829-37   | 3.6  | 19  |
| 89 | New Insights into Fundamental Electron Transfer from Single Nanoparticle Voltammetry. <i>Journal of Physical Chemistry Letters</i> , <b>2016</b> , 7, 1554-8  | 6.4  | 12  |
| 88 | The Corannulene Reduction Mechanism in Ionic Liquids is Controlled by Ion Pairing. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 8405-8410  | 3.8  | 3   |
| 87 | The activity of non-metallic boron-doped diamond electrodes with sub-micron scale heterogeneity and the role of the morphology of sp <sup>2</sup> impurities. <i>Carbon</i> , <b>2016</b> , 110, 148-154    | 10.4 | 18  |
| 86 | Nanoparticle Surface Coverage Controls the Speciation of Electrochemically Generated Chlorine. <i>ChemElectroChem</i> , <b>2016</b> , 3, 1794-1798  | 4.3  |     |
| 85 | Improving Formate and Methanol Fuels: Catalytic Activity of Single Pd Coated Carbon Nanotubes. <i>ACS Catalysis</i> , <b>2016</b> , 6, 7118-7124  | 13.1 | 28  |
| 84 | Ferrocene Aryl Derivatives for the Redox Tagging of Graphene Nanoplatelets. <i>Electroanalysis</i> , <b>2016</b> , 28, 197-202  | 3    | 11  |
| 83 | Diffusional impacts of nanoparticles on microdisc and microwire electrodes: The limit of detection and first passage statistics. <i>Journal of Electroanalytical Chemistry</i> , <b>2015</b> , 755, 136-142 | 4.1  | 26  |
| 82 | Nanoparticle Capping Agent Dynamics and Electron Transfer: Polymer-Gated Oxidation of Silver Nanoparticles. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 18808-18815                         | 3.8  | 27  |



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| 81 | Diffusional Nanoimpacts: The Stochastic Limit. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 14400-14410  | 3.8 | 16  |
| 80 | Influence of Adsorption Kinetics upon the Electrochemically Reversible Hydrogen Oxidation Reaction. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 16121-16130                                   | 3.8 | 17  |
| 79 | The Subtleties of the Reversible Hydrogen Evolution Reaction Arising from the Nonunity Stoichiometry. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 9402-9410                                   | 3.8 | 24  |
| 78 | Single graphene nanoplatelets: capacitance, potential of zero charge and diffusion coefficient. <i>Chemical Science</i> , <b>2015</b> , 6, 2869-2876  | 9.4 | 65  |
| 77 | Electrochemical detection of single E. coli bacteria labeled with silver nanoparticles. <i>Biomaterials Science</i> , <b>2015</b> , 3, 816-20   | 7.4 | 77  |
| 76 | Tafel/Volmer Electrode Reactions: The Influence of Electron-Transfer Kinetics. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 22415-22424  | 3.8 | 11  |
| 75 | Voltammetric Peak Heights of the Proton/Hydrogen Redox Couple: A Comprehensive Analysis. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 23203-23210  | 3.8 | 6   |
| 74 | Reversible or not? Distinguishing agglomeration and aggregation at the nanoscale. <i>Analytical Chemistry</i> , <b>2015</b> , 87, 10033-9   | 7.8 | 100 |
| 73 | Non-Invasive Probing of Nanoparticle Electrostatics. <i>ChemElectroChem</i> , <b>2015</b> , 2, 112-118  | 4.3 | 21  |
| 72 | Recent Advances in Voltammetry. <i>ChemistryOpen</i> , <b>2015</b> , 4, 224-60  | 2.3 | 91  |
| 71 | Are Nanoparticles Spherical or Quasi-Spherical?. <i>Chemistry - A European Journal</i> , <b>2015</b> , 21, 10741-6  | 4.8 | 27  |
| 70 | Ultra-small Palladium Nanoparticle Decorated Carbon Nanotubes: Conductivity and Reactivity. <i>ChemPhysChem</i> , <b>2015</b> , 16, 2322-5  | 3.2 | 9   |
| 69 | In situ nanoparticle sizing with zeptomole sensitivity. <i>Analyst, The</i> , <b>2015</b> , 140, 5048-54  | 5   | 83  |
| 68 | Altered Electrochemistry at Graphene- or Alumina-Modified Electrodes: Catalysis vs Electrocatalysis in Multistep Electrode Processes. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 13777-13784 | 3.8 | 18  |
| 67 | Voltammetric Study of the Influence of Various Phosphate Anions on Silver Nanoparticle Oxidation. <i>ChemistryOpen</i> , <b>2015</b> , 4, 595-9   | 2.3 | 14  |
| 66 | Two-Electron, Two-Proton Oxidation of Catechol: Kinetics and Apparent Catalysis. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 1489-1495  | 3.8 | 96  |
| 65 | Bifunctional redox tagging of carbon nanoparticles. <i>Nanoscale</i> , <b>2015</b> , 7, 2069-75   | 7.7 | 3   |
| 64 | Metal-halide Nanoparticle Formation: Electrolytic and Chemical Synthesis of Mercury(I) Chloride Nanoparticles. <i>ChemElectroChem</i> , <b>2015</b> , 2, 522-528  | 4.3 | 18  |



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| 63 | Organic Nanoparticles: Mechanism of Electron Transfer to Indigo Nanoparticles. <i>ChemElectroChem</i> , <b>2014</b> , 1, 714-717  | 4.3  | 28  |
| 62 | 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> , <b>2014</b> , 200, 47-52 | 8.5  | 66  |
| 61 | 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> , <b>2014</b> , 193, 315-319               | 8.5  | 14  |
| 60 | Koutecky-Levich analysis applied to nanoparticle modified rotating disk electrodes: Electrocatalysis or misinterpretation. <i>Nano Research</i> , <b>2014</b> , 7, 71-78  | 10   | 133 |
| 59 | Use of the capping agent for the electrochemical detection and quantification of nanoparticles: CdSe quantum dots. <i>Sensors and Actuators B: Chemical</i> , <b>2014</b> , 204, 445-449                        | 8.5  | 1   |
| 58 | Diffusional transport to and through thin-layer nanoparticle film modified electrodes: capped CdSe nanoparticle modified electrodes. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 18034-41    | 3.6  | 10  |
| 57 | Electrochemical studies of silver nanoparticles: a guide for experimentalists and a perspective. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 616-23  | 3.6  | 54  |
| 56 | Nanoparticle-Impact Experiments are Highly Sensitive to the Presence of Adsorbed Species on Electrode Surfaces. <i>ChemElectroChem</i> , <b>2014</b> , 1, 1057-1062   | 4.3  | 22  |
| 55 | Chemical interactions between silver nanoparticles and thiols: a comparison of mercaptohexanol against cysteine. <i>Science China Chemistry</i> , <b>2014</b> , 57, 1199-1210                                   | 7.9  | 40  |
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| 53 | Cover Picture: Nanoparticle-Impact Experiments are Highly Sensitive to the Presence of Adsorbed Species on Electrode Surfaces (ChemElectroChem 6/2014. <i>ChemElectroChem</i> , <b>2014</b> , 1, 1085-1085      | 4.3  | 1   |
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| 47 | Thin film-modified electrodes: a model for the charge transfer resistance in electrochemical impedance spectroscopy. <i>Journal of Solid State Electrochemistry</i> , <b>2014</b> , 18, 3239-3243               | 2.6  | 13  |
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