

Henry S White

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.

238
papers

15,620
citations

70
h-index

114
g-index

249
ext. papers

17,037
ext. citations

8.7
avg, IF

6.74
L-index

| # | Paper | IF | Citations |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 238 | Visualization and Quantification of Electrochemical H Bubble Nucleation at Pt, Au, and MoS Substrates. <i>ACS Sensors</i> , 2021 , 6, 355-363 | 9.2 | 17 |
| 237 | Effect of Nonuniform Mass Transport on Nanobubble Nucleation at Individual Pt Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 19724-19732 | 3.8 | 2 |
| 236 | Electrochemical Generation of Individual Nanobubbles Comprising H, D, and HD. <i>Langmuir</i> , 2020 , 36, 6073-6078 | 4 | 6 |
| 235 | Shot noise sets the limit of quantification in electrochemical measurements. <i>Current Opinion in Electrochemistry</i> , 2020 , 22, 170-177 | 7.2 | 14 |
| 234 | Electrochemical Reduction of [Ni(Mebpy) ₃] ²⁺ : Elucidation of the Redox Mechanism by Cyclic Voltammetry and Steady-State Voltammetry in Low Ionic Strength Solutions. <i>ChemElectroChem</i> , 2020 , 7, 1473-1479 | 4.3 | 5 |
| 233 | Effect of Viscosity on the Collision Dynamics and Oxidation of Individual Ag Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 9068-9076 | 3.8 | 5 |
| 232 | Electrochemically Controlled Nucleation of Single CO Nanobubbles via Formate Oxidation at Pt Nanoelectrodes. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 1291-1296 | 6.4 | 15 |
| 231 | A High-Pressure System for Studying Oxygen Reduction During Pt Nanoparticle Collisions. <i>Journal of the Electrochemical Society</i> , 2020 , 167, 166507 | 3.9 | 2 |
| 230 | 3D Architectures for Batteries and Electrodes. <i>Advanced Energy Materials</i> , 2020 , 10, 2002457 | 21.8 | 18 |
| 229 | High-Performance Solid-State Lithium-Ion Battery with Mixed 2D and 3D Electrodes. <i>ACS Applied Energy Materials</i> , 2020 , 3, 8402-8409 | 6.1 | 22 |
| 228 | Single-entity electrochemistry at confined sensing interfaces. <i>Science China Chemistry</i> , 2020 , 63, 589-618 | 7.9 | 27 |
| 227 | Nitrogen Bubbles at Pt Nanoelectrodes in a Nonaqueous Medium: Oscillating Behavior and Geometry of Critical Nuclei. <i>Analytical Chemistry</i> , 2020 , 92, 6408-6414 | 7.8 | 12 |
| 226 | Visualization of Hydrogen Evolution at Individual Platinum Nanoparticles at a Buried Interface. <i>Journal of the American Chemical Society</i> , 2020 , 142, 8890-8896 | 16.4 | 23 |
| 225 | A synthetic chemist's guide to electroanalytical tools for studying reaction mechanisms. <i>Chemical Science</i> , 2019 , 10, 6404-6422 | 9.4 | 136 |
| 224 | Voltammetric Determination of the Stochastic Formation Rate and Geometry of Individual H ₂ , N ₂ , and O ₂ Bubble Nuclei. <i>ACS Nano</i> , 2019 , 13, 6330-6340 | 16.7 | 29 |
| 223 | Electrochemically Driven, Ni-Catalyzed Aryl Amination: Scope, Mechanism, and Applications. <i>Journal of the American Chemical Society</i> , 2019 , 141, 6392-6402 | 16.4 | 152 |
| 222 | Electrochemical Synthesis of Individual Core@Shell and Hollow Ag/AgS Nanoparticles. <i>Nano Letters</i> , 2019 , 19, 5612-5619 | 11.5 | 21 |

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|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|
| 221 | Enhancing Lithium Insertion with Electrostatic Nanoconfinement in a Lithography Patterned Precision Cell. <i>ACS Nano</i> , 2019 , 13, 8481-8489 | 16.7 | 3 |
| 220 | Coupled Electron- and Phase-Transfer Reactions at a Three-Phase Interface. <i>Journal of the American Chemical Society</i> , 2019 , 141, 18091-18098 | 16.4 | 21 |
| 219 | Nanopore Opening at Flat and Nanotip Conical Electrodes during Vesicle Impact Electrochemical Cytometry. <i>ACS Nano</i> , 2018 , 12, 3010-3019 | 16.7 | 43 |
| 218 | Critical Nuclei Size, Rate, and Activation Energy of H ₂ Gas Nucleation. <i>Journal of the American Chemical Society</i> , 2018 , 140, 4047-4053 | 16.4 | 67 |
| 217 | Nanopore Analysis of the 5-Guanidinohydantoin to Iminoallantoin Isomerization in Duplex DNA. <i>Journal of Organic Chemistry</i> , 2018 , 83, 3973-3978 | 4.2 | 4 |
| 216 | Single Ag nanoparticle collisions within a dual-electrode micro-gap cell. <i>Faraday Discussions</i> , 2018 , 210, 189-200 | 3.6 | 10 |
| 215 | Single-Molecule Titration in a Protein Nanoreactor Reveals the Protonation/Deprotonation Mechanism of a C:C Mismatch in DNA. <i>Journal of the American Chemical Society</i> , 2018 , 140, 5153-5160 | 16.4 | 22 |
| 214 | Redox cycling in nanogap electrochemical cells. <i>Current Opinion in Electrochemistry</i> , 2018 , 7, 48-53 | 7.2 | 24 |
| 213 | Effects of Instrumental Filters on Electrochemical Measurement of Single-Nanoparticle Collision Dynamics. <i>ChemElectroChem</i> , 2018 , 5, 3059-3067 | 4.3 | 30 |
| 212 | Dynamics of nanointerfaces: general discussion. <i>Faraday Discussions</i> , 2018 , 210, 451-479 | 3.6 | 3 |
| 211 | Nanoscale electrochemical kinetics & dynamics: the challenges and opportunities of single-entity measurements. <i>Faraday Discussions</i> , 2018 , 210, 9-28 | 3.6 | 26 |
| 210 | EHemolysin Nanopore Is Sensitive to Guanine-to-Inosine Substitutions in Double-Stranded DNA at the Single-Molecule Level. <i>Journal of the American Chemical Society</i> , 2018 , 140, 14224-14234 | 16.4 | 16 |
| 209 | Processes at nanopores and bio-nanointerfaces: general discussion. <i>Faraday Discussions</i> , 2018 , 210, 145-171 | 3.6 | 2 |
| 208 | The Nucleation Rate of Single O ₂ Nanobubbles at Pt Nanoelectrodes. <i>Langmuir</i> , 2018 , 34, 7309-7318 | 4 | 35 |
| 207 | The Dynamic Steady State of an Electrochemically Generated Nanobubble. <i>Langmuir</i> , 2017 , 33, 1845-1853 | 3.6 | 32 |
| 206 | Dynamics of a DNA Mismatch Site Held in Confinement Discriminate Epigenetic Modifications of Cytosine. <i>Journal of the American Chemical Society</i> , 2017 , 139, 2750-2756 | 16.4 | 29 |
| 205 | Interrogation of Base Pairing of the Spiroiminodihydantoin Diastereomers Using the EHemolysin Latch. <i>Biochemistry</i> , 2017 , 56, 1596-1603 | 3.2 | 6 |
| 204 | Nanopipettes as a tool for single nanoparticle electrochemistry. <i>Current Opinion in Electrochemistry</i> , 2017 , 6, 4-9 | 7.2 | 22 |

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|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
| 203 | Electrochemical Generation of Individual O Nanobubbles via HO Oxidation. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 2450-2454 | 6.4 | 57 |
| 202 | Single Nanochannel Platform for Detecting Chiral Drugs. <i>Analytical Chemistry</i> , 2017 , 89, 1110-1116 | 7.8 | 55 |
| 201 | Observation of Multipeak Collision Behavior during the Electro-Oxidation of Single Ag Nanoparticles. <i>Journal of the American Chemical Society</i> , 2017 , 139, 708-718 | 16.4 | 132 |
| 200 | Collision Dynamics during the Electrooxidation of Individual Silver Nanoparticles. <i>Journal of the American Chemical Society</i> , 2017 , 139, 16923-16931 | 16.4 | 77 |
| 199 | Three-Dimensional Super-resolution Imaging of Single Nanoparticles Delivered by Pipettes. <i>ACS Nano</i> , 2017 , 11, 10529-10538 | 16.7 | 28 |
| 198 | Collision and Oxidation of Silver Nanoparticles on a Gold Nanoband Electrode. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 23564-23573 | 3.8 | 25 |
| 197 | Microscale 2.5D Batteries. <i>Journal of the Electrochemical Society</i> , 2017 , 164, A2500-A2503 | 3.9 | 11 |
| 196 | Selective increase in CO electroreduction activity at grain-boundary surface terminations. <i>Science</i> , 2017 , 358, 1187-1192 | 33.3 | 426 |
| 195 | Redox Cycling in Nanogap Electrochemical Cells. The Role of Electrostatics in Determining the Cell Response. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 17251-17260 | 3.8 | 34 |
| 194 | Fabrication, Testing, and Simulation of All-Solid-State Three-Dimensional Li-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 32385-32391 | 9.5 | 76 |
| 193 | Reactions at the nanoscale: general discussion. <i>Faraday Discussions</i> , 2016 , 193, 265-292 | 3.6 | 1 |
| 192 | Electrochemistry of single nanobubbles. Estimating the critical size of bubble-forming nuclei for gas-evolving electrode reactions. <i>Faraday Discussions</i> , 2016 , 193, 223-240 | 3.6 | 53 |
| 191 | Unzipping of A-Form DNA-RNA, A-Form DNA-PNA, and B-Form DNA-DNA in the β -Hemolysin Nanopore. <i>Biophysical Journal</i> , 2016 , 110, 306-314 | 2.9 | 23 |
| 190 | Electrochemical Measurement of Hydrogen and Nitrogen Nanobubble Lifetimes at Pt Nanoelectrodes. <i>Journal of the Electrochemical Society</i> , 2016 , 163, H3160-H3166 | 3.9 | 35 |
| 189 | Base Flipping within the β -Hemolysin Latch Allows Single-Molecule Identification of Mismatches in DNA. <i>Journal of the American Chemical Society</i> , 2016 , 138, 594-603 | 16.4 | 36 |
| 188 | Energetics of base flipping at a DNA mismatch site confined at the latch constriction of β -hemolysin. <i>Faraday Discussions</i> , 2016 , 193, 471-485 | 3.6 | 6 |
| 187 | From single cells to single molecules: general discussion. <i>Faraday Discussions</i> , 2016 , 193, 141-170 | 3.6 | 4 |
| 186 | Electrochemistry of single nanoparticles: general discussion. <i>Faraday Discussions</i> , 2016 , 193, 387-413 | 3.6 | 13 |

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| 185 | Kinetics of T3-DNA Ligase-Catalyzed Phosphodiester Bond Formation Measured Using the β Hemolysin Nanopore. <i>ACS Nano</i> , 2016 , 10, 11127-11135 | 16.7 | 16 |
| 184 | Multipass Resistive-Pulse Observations of the Rotational Tumbling of Individual Nanorods. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 20781-20788 | 3.8 | 12 |
| 183 | Laplace Pressure of Individual H Nanobubbles from Pressure-Addition Electrochemistry. <i>Nano Letters</i> , 2016 , 16, 6691-6694 | 11.5 | 39 |
| 182 | Voltage-Rectified Current and Fluid Flow in Conical Nanopores. <i>Accounts of Chemical Research</i> , 2016 , 49, 2605-2613 | 24.3 | 107 |
| 181 | Resistive Pulse Delivery of Single Nanoparticles to Electrochemical Interfaces. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 3920-3924 | 6.4 | 22 |
| 180 | Cluster Size Controls Branching between Water and Hydrogen Peroxide Production in Electrochemical Oxygen Reduction at Pt _n /ITO. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 11160-11170 | 3.8 | 56 |
| 179 | Sizing Individual Au Nanoparticles in Solution with Sub-Nanometer Resolution. <i>ACS Nano</i> , 2015 , 9, 7186-7194 | 16.7 | 44 |
| 178 | Nanopore detection of 8-oxoguanine in the human telomere repeat sequence. <i>ACS Nano</i> , 2015 , 9, 4296-3077 | 16.7 | 58 |
| 177 | Electrochemical Generation of a Hydrogen Bubble at a Recessed Platinum Nanopore Electrode. <i>Langmuir</i> , 2015 , 31, 4573-81 | 4 | 65 |
| 176 | Effect of the Electric Double Layer on the Activation Energy of Ion Transport in Conical Nanopores. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 24299-24306 | 3.8 | 29 |
| 175 | Ion Transport within High Electric Fields in Nanogap Electrochemical Cells. <i>ACS Nano</i> , 2015 , 9, 8520-9 | 16.7 | 44 |
| 174 | Electrochemical Nucleation of Stable N ₂ Nanobubbles at Pt Nanoelectrodes. <i>Journal of the American Chemical Society</i> , 2015 , 137, 12064-9 | 16.4 | 87 |
| 173 | Differentiation of G:C vs A:T and G:C vs G:mC Base Pairs in the Latch Zone of β Hemolysin. <i>ACS Nano</i> , 2015 , 9, 11325-32 | 16.7 | 11 |
| 172 | Size-dependent electronic structure controls activity for ethanol electro-oxidation at Pt _n /indium tin oxide (n = 1 to 14). <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 17601-10 | 3.6 | 42 |
| 171 | High-Speed Multipass Coulter Counter with Ultrahigh Resolution. <i>ACS Nano</i> , 2015 , 9, 12274-82 | 16.7 | 43 |
| 170 | Effect of an Electrolyte Cation on Detecting DNA Damage with the Latch Constriction of β Hemolysin. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 3781-3786 | 6.4 | 17 |
| 169 | Internal vs fishhook hairpin DNA: unzipping locations and mechanisms in the β Hemolysin nanopore. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 12873-82 | 3.4 | 28 |
| 168 | Temperature and electrolyte optimization of the β Hemolysin latch sensing zone for detection of base modification in double-stranded DNA. <i>Biophysical Journal</i> , 2014 , 107, 924-31 | 2.9 | 19 |

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| 167 | Electron-transfer kinetics and electric double layer effects in nanometer-wide thin-layer cells. <i>ACS Nano</i> , 2014 , 8, 10426-36 | 16.7 | 26 |
| 166 | Effect of Surface Charge on the Resistive Pulse Waveshape during Particle Translocation through Glass Nanopores. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 2726-2734 | 3.8 | 90 |
| 165 | Resistive-pulse analysis of nanoparticles. <i>Annual Review of Analytical Chemistry</i> , 2014 , 7, 513-35 | 12.5 | 115 |
| 164 | Electrochemical Measurements of Single H ₂ Nanobubble Nucleation and Stability at Pt Nanoelectrodes. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 3539-44 | 6.4 | 114 |
| 163 | Negative differential electrolyte resistance in a solid-state nanopore resulting from electroosmotic flow bistability. <i>ACS Nano</i> , 2014 , 8, 3023-30 | 16.7 | 23 |
| 162 | Electrogeneration of single nanobubbles at sub-50-nm-radius platinum nanodisk electrodes. <i>Langmuir</i> , 2013 , 29, 11169-75 | 4 | 121 |
| 161 | Structural destabilization of DNA duplexes containing single-base lesions investigated by nanopore measurements. <i>Biochemistry</i> , 2013 , 52, 7870-7 | 3.2 | 26 |
| 160 | Base-excision repair activity of uracil-DNA glycosylase monitored using the latch zone of β hemolysin. <i>Journal of the American Chemical Society</i> , 2013 , 135, 19347-53 | 16.4 | 47 |
| 159 | Electrical Current Signatures of DNA Base Modifications in Single Molecules Immobilized in the β Hemolysin Ion Channel. <i>Israel Journal of Chemistry</i> , 2013 , 53, 417-430 | 3.4 | 10 |
| 158 | Controlling Nanoparticle Dynamics in Conical Nanopores. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 7033-7 | 3.1 | 74 |
| 157 | Strong effects of cluster size and air exposure on oxygen reduction and carbon oxidation electrocatalysis by size-selected Pt(n) (n = 1) on glassy carbon electrodes. <i>Journal of the American Chemical Society</i> , 2013 , 135, 3073-86 | 16.4 | 99 |
| 156 | A Computationally Efficient Treatment of Polarizable Electrochemical Cells Held at a Constant Potential. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 4903-4912 | 3.8 | 49 |
| 155 | Unzipping kinetics of duplex DNA containing oxidized lesions in an β hemolysin nanopore. <i>Journal of the American Chemical Society</i> , 2012 , 134, 11006-11 | 16.4 | 70 |
| 154 | Tunable negative differential electrolyte resistance in a conical nanopore in glass. <i>ACS Nano</i> , 2012 , 6, 6507-14 | 16.7 | 30 |
| 153 | Diffusional motion of a particle translocating through a nanopore. <i>ACS Nano</i> , 2012 , 6, 1757-65 | 16.7 | 54 |
| 152 | Resistive-pulse detection of multilamellar liposomes. <i>Langmuir</i> , 2012 , 28, 7572-7 | 4 | 34 |
| 151 | Crown ether-electrolyte interactions permit nanopore detection of individual DNA abasic sites in single molecules. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 11504-9 | 11.5 | 89 |
| 150 | Pressure-dependent ion current rectification in conical-shaped glass nanopores. <i>Journal of the American Chemical Society</i> , 2011 , 133, 13300-3 | 16.4 | 174 |

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| 149 | Pressure-Driven Nanoparticle Transport across Glass Membranes Containing a Conical-Shaped Nanopore. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 18445-18452 | 3.8 | 81 |
| 148 | Electrical signature of the deformation and dehydration of microgels during translocation through nanopores. <i>Soft Matter</i> , 2011 , 7, 8035 | 3.6 | 42 |
| 147 | Nanoparticle transport in conical-shaped nanopores. <i>Analytical Chemistry</i> , 2011 , 83, 3840-7 | 7.8 | 188 |
| 146 | Fluorescence microscopy of the pressure-dependent structure of lipid bilayers suspended across conical nanopores. <i>Journal of the American Chemical Society</i> , 2011 , 133, 7810-5 | 16.4 | 15 |
| 145 | Post-self-assembly covalent chemistry of discrete multicomponent metallocsupramolecular hexagonal prisms. <i>Journal of the American Chemical Society</i> , 2011 , 133, 10752-5 | 16.4 | 82 |
| 144 | Sequence-specific single-molecule analysis of 8-oxo-7,8-dihydroguanine lesions in DNA based on unzipping kinetics of complementary probes in ion channel recordings. <i>Journal of the American Chemical Society</i> , 2011 , 133, 14778-84 | 16.4 | 35 |
| 143 | Resistive Pulse Analysis of Microgel Deformation During Nanopore Translocation. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 2999-3004 | 3.8 | 52 |
| 142 | Monitoring the escape of DNA from a nanopore using an alternating current signal. <i>Journal of the American Chemical Society</i> , 2010 , 132, 1878-85 | 16.4 | 74 |
| 141 | Quartz nanopore membranes for suspended bilayer ion channel recordings. <i>Analytical Chemistry</i> , 2010 , 82, 7259-66 | 7.8 | 31 |
| 140 | Nanopore detection of 8-oxo-7,8-dihydro-2-deoxyguanosine in immobilized single-stranded DNA via adduct formation to the DNA damage site. <i>Journal of the American Chemical Society</i> , 2010 , 132, 17992-5 | 16.4 | 77 |
| 139 | Translocation Dynamics of Poly(styrenesulfonic acid) through an α -Hemolysin Protein Nanopore. <i>Macromolecules</i> , 2010 , 43, 10594-10599 | 5.5 | 18 |
| 138 | Observation of redox-induced electron transfer and spin crossover for dinuclear cobalt and iron complexes with the 2,5-di-tert-butyl-3,6-dihydroxy-1,4-benzoquinonate bridging ligand. <i>Journal of the American Chemical Society</i> , 2009 , 131, 6229-36 | 16.4 | 101 |
| 137 | Controlling the translocation of single-stranded DNA through alpha-hemolysin ion channels using viscosity. <i>Langmuir</i> , 2009 , 25, 1233-7 | 4 | 76 |
| 136 | Sensitivity and signal complexity as a function of the number of ion channels in a stochastic sensor. <i>Analytical Chemistry</i> , 2009 , 81, 533-7 | 7.8 | 48 |
| 135 | Construction of multifunctional cuboctahedra via coordination-driven self-assembly. <i>Journal of the American Chemical Society</i> , 2009 , 131, 6695-7 | 16.4 | 101 |
| 134 | Introduction of heterofunctional groups onto molecular hexagons via coordination-driven self-assembly. <i>Journal of Organic Chemistry</i> , 2009 , 74, 4828-33 | 4.2 | 31 |
| 133 | Mechanism of electrostatic gating at conical glass nanopore electrodes. <i>Langmuir</i> , 2008 , 24, 12062-7 | 4 | 25 |
| 132 | A new family of multiferrocene complexes with enhanced control of structure and stoichiometry via coordination-driven self-assembly and their electrochemistry. <i>Journal of the American Chemical Society</i> , 2008 , 130, 839-41 | 16.4 | 155 |

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| 131 | Ion current rectification at nanopores in glass membranes. <i>Langmuir</i> , 2008 , 24, 2212-8 | 4 | 305 |
| 130 | Synthesis of a new family of hexakisferrocenyl hexagons and their electrochemical behavior. <i>Journal of Organic Chemistry</i> , 2008 , 73, 8553-7 | 4.2 | 36 |
| 129 | Simultaneous alternating and direct current readout of protein ion channel blocking events using glass nanopore membranes. <i>Analytical Chemistry</i> , 2008 , 80, 2069-76 | 7.8 | 34 |
| 128 | Electrochemistry in nanometer-wide electrochemical cells. <i>Langmuir</i> , 2008 , 24, 2850-5 | 4 | 43 |
| 127 | Glass nanopore-based ion-selective electrodes. <i>Analytical Chemistry</i> , 2007 , 79, 3568-74 | 7.8 | 49 |
| 126 | AC conductance of transmembrane protein channels. The number of ionized residue mobile counterions at infinite dilution. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 9165-71 | 3.4 | 9 |
| 125 | Single ion-channel recordings using glass nanopore membranes. <i>Journal of the American Chemical Society</i> , 2007 , 129, 11766-75 | 16.4 | 218 |
| 124 | Influence of electrophoresis waveforms in determining stochastic nanoparticle capture rates and detection sensitivity. <i>Analytical Chemistry</i> , 2007 , 79, 6334-40 | 7.8 | 12 |
| 123 | Bench-top method for fabricating glass-sealed nanodisk electrodes, glass nanopore electrodes, and glass nanopore membranes of controlled size. <i>Analytical Chemistry</i> , 2007 , 79, 4778-87 | 7.8 | 214 |
| 122 | Electrostatic-gated transport in chemically modified glass nanopore electrodes. <i>Journal of the American Chemical Society</i> , 2006 , 128, 7679-86 | 16.4 | 167 |
| 121 | Photon gated transport at the glass nanopore electrode. <i>Journal of the American Chemical Society</i> , 2006 , 128, 13553-8 | 16.4 | 156 |
| 120 | Steady-state voltammetric response of the nanopore electrode. <i>Analytical Chemistry</i> , 2006 , 78, 477-83 | 7.8 | 91 |
| 119 | Ionic conductivity of the aqueous layer separating a lipid bilayer membrane and a glass support. <i>Langmuir</i> , 2006 , 22, 10777-83 | 4 | 88 |
| 118 | Alternating current impedance imaging of high-resistance membrane pores using a scanning electrochemical microscope. Application of membrane electrical shunts to increase measurement sensitivity and image contrast. <i>Analytical Chemistry</i> , 2006 , 78, 6535-41 | 7.8 | 40 |
| 117 | pH- and ionic strength-controlled cation permselectivity in amine-modified nanoporous opal films. <i>Langmuir</i> , 2006 , 22, 4429-32 | 4 | 59 |
| 116 | Electrochemistry of nanopore electrodes in low ionic strength solutions. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 1768-74 | 3.4 | 56 |
| 115 | Chemically modified opals as thin permselective nanoporous membranes. <i>Journal of the American Chemical Society</i> , 2005 , 127, 7268-9 | 16.4 | 90 |
| 114 | A random walk through electron-transfer kinetics. <i>Analytical Chemistry</i> , 2005 , 77, 214 A-220 A | 7.8 | 72 |

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|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|
| 113 | Alternating current impedance imaging of membrane pores using scanning electrochemical microscopy. <i>Analytical Chemistry</i> , 2005 , 77, 5564-9 | 7.8 | 63 |
| 112 | Electrochemistry at Nanometer-Scaled Electrodes. <i>Journal of Chemical Education</i> , 2005 , 82, 712 | 2.4 | 21 |
| 111 | Influence of asymmetric donor-receiver ion concentration upon transscleral iontophoretic transport. <i>Journal of Pharmaceutical Sciences</i> , 2005 , 94, 847-60 | 3.9 | 27 |
| 110 | Dissolution of the Native Oxide Film on Polycrystalline and Single-Crystal Aluminum in NaCl Solutions. <i>Journal of the Electrochemical Society</i> , 2004 , 151, B479 | 3.9 | 22 |
| 109 | Relationship Between Al ₂ O ₃ Film Dissolution Rate and the Pitting Potential of Aluminum in NaCl Solution. <i>Journal of the Electrochemical Society</i> , 2004 , 151, B265 | 3.9 | 19 |
| 108 | The role of the electrical double layer and ion pairing on the electrochemical oxidation of hexachloroiridate(III) at Pt electrodes of nanometer dimensions. <i>Langmuir</i> , 2004 , 20, 5474-83 | 4 | 68 |
| 107 | Electrophoretic capture and detection of nanoparticles at the opening of a membrane pore using scanning electrochemical microscopy. <i>Analytical Chemistry</i> , 2004 , 76, 6108-15 | 7.8 | 128 |
| 106 | The nanopore electrode. <i>Analytical Chemistry</i> , 2004 , 76, 6229-38 | 7.8 | 193 |
| 105 | Anisotropic Diffusion in Face-Centered Cubic Opals. <i>Nano Letters</i> , 2004 , 4, 875-880 | 11.5 | 57 |
| 104 | Three-dimensional battery architectures. <i>Chemical Reviews</i> , 2004 , 104, 4463-92 | 68.1 | 1038 |
| 103 | Electroosmotic pore transport in human skin. <i>Pharmaceutical Research</i> , 2003 , 20, 646-52 | 4.5 | 39 |
| 102 | Finite-element analysis of magnetic field driven transport at inlaid platinum microdisk electrodes. <i>ChemPhysChem</i> , 2003 , 4, 212-4 | 3.2 | 11 |
| 101 | 3-D Microbatteries. <i>Electrochemistry Communications</i> , 2003 , 5, 120-123 | 5.1 | 155 |
| 100 | Zeptomole voltammetric detection and electron-transfer rate measurements using platinum electrodes of nanometer dimensions. <i>Analytical Chemistry</i> , 2003 , 75, 3962-71 | 7.8 | 161 |
| 99 | Nanoscale Imaging of the Electronic Conductivity of the Native Oxide Film on Titanium Using Conducting Atomic Force Microscopy. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 9677-9680 | 3.4 | 53 |
| 98 | Magnetochemistry of Nitrothiophenolate-Functionalized Gold Nanoparticles. <i>Langmuir</i> , 2003 , 19, 9446-9449 | 4 | 17 |
| 97 | Electrochemical Deposition and Reoxidation of Au at Highly Oriented Pyrolytic Graphite. Stabilization of Au Nanoparticles on the Upper Plane of Step Edges. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 451-458 | 3.4 | 27 |
| 96 | Al ₂ O ₃ Film Dissolution in Aqueous Chloride Solutions. <i>Electrochemical and Solid-State Letters</i> , 2003 , 6, B38 | | 28 |

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|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
| 95 | Magnetic field-controlled microfluidic transport. <i>Journal of the American Chemical Society</i> , 2002 , 124, 462-7 | 16.4 | 63 |
| 94 | Diffusive-convective transport into a porous membrane. A comparison of theory and experiment using scanning electrochemical microscopy operated in reverse imaging mode. <i>Analytical Chemistry</i> , 2002 , 74, 4577-82 | 7.8 | 37 |
| 93 | Microscale Confinement of Paramagnetic Molecules in Magnetic Field Gradients Surrounding Ferromagnetic Microelectrodes. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 8989-8994 | 3.4 | 59 |
| 92 | Scanning electrochemical microscopy of membrane transport in the reverse imaging mode. <i>Analytical Chemistry</i> , 2001 , 73, 533-9 | 7.8 | 34 |
| 91 | Scanning electrochemical microscopy of iontophoretic transport in hairless mouse skin. Analysis of the relative contributions of diffusion, migration, and electroosmosis to transport in hair follicles. <i>Journal of Pharmaceutical Sciences</i> , 2000 , 89, 1537-49 | 3.9 | 45 |
| 90 | Visualization and analysis of electroosmotic flow in hairless mouse skin. <i>Pharmaceutical Research</i> , 2000 , 17, 471-5 | 4.5 | 34 |
| 89 | Electrochemical characterization of electrodes with submicrometer dimensions. <i>Analytical Chemistry</i> , 2000 , 72, 4441-6 | 7.8 | 135 |
| 88 | Scanning Electrochemical Microscopy Detection of Dissolved Sulfur Species from Inclusions in Stainless Steel. <i>Journal of the Electrochemical Society</i> , 2000 , 147, 4120 | 3.9 | 94 |
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