

Henry S White

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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	Three-dimensional battery architectures. <i>Chemical Reviews</i> , 2004 , 104, 4463-92	68.1	1038
237	Selective increase in CO electroreduction activity at grain-boundary surface terminations. <i>Science</i> , 2017 , 358, 1187-1192	33.3	426
236	Chemical derivatization of an array of three gold microelectrodes with polypyrrole: fabrication of a molecule-based transistor. <i>Journal of the American Chemical Society</i> , 1984 , 106, 5375-5377	16.4	417
235	Ion current rectification at nanopores in glass membranes. <i>Langmuir</i> , 2008 , 24, 2212-8	4	305
234	Chemical derivatization of microelectrode arrays by oxidation of pyrrole and N-methylpyrrole: fabrication of molecule-based electronic devices. <i>Journal of the American Chemical Society</i> , 1984 , 106, 7389-7396	16.4	304
233	Theory of the interfacial potential distribution and reversible voltammetric response of electrodes coated with electroactive molecular films. <i>Analytical Chemistry</i> , 1992 , 64, 2398-405	7.8	277
232	Polymer films on electrodes. 8. Investigation of charge-transport mechanisms in Nafion polymer modified electrodes. <i>Journal of the American Chemical Society</i> , 1982 , 104, 4811-4817	16.4	277
231	Electrogenerated chemiluminescence. 41. Electrogenerated chemiluminescence and chemiluminescence of the Ru(2,21 - bpy) ₃ ²⁺ -S ₂ O ₈ ²⁻ system in acetonitrile-water solutions. <i>Journal of the American Chemical Society</i> , 1982 , 104, 6891-6895	16.4	265
230	Single ion-channel recordings using glass nanopore membranes. <i>Journal of the American Chemical Society</i> , 2007 , 129, 11766-75	16.4	218
229	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
228	The nanopore electrode. <i>Analytical Chemistry</i> , 2004 , 76, 6229-38	7.8	193
227	Electrochemistry of Sulfur Adlayers on the Low-Index Faces of Silver. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 9854-9859		190
226	Nanoparticle transport in conical-shaped nanopores. <i>Analytical Chemistry</i> , 2011 , 83, 3840-7	7.8	188
225	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
224	Electrostatic-gated transport in chemically modified glass nanopore electrodes. <i>Journal of the American Chemical Society</i> , 2006 , 128, 7679-86	16.4	167
223	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
222	Photon gated transport at the glass nanopore electrode. <i>Journal of the American Chemical Society</i> , 2006 , 128, 13553-8	16.4	156

221	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
220	3-D Microbatteries. <i>Electrochemistry Communications</i> , 2003 , 5, 120-123	5.1	155
219	Pitting Corrosion of Titanium. <i>Journal of the Electrochemical Society</i> , 1994 , 141, 636-642	3.9	155
218	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
217	Electrochemically Generated Magnetic Forces. Enhanced Transport of a Paramagnetic Redox Species in Large, Nonuniform Magnetic Fields. <i>Journal of the American Chemical Society</i> , 1998 , 120, 13461-13468	16.4	144
216	Theory of the voltammetric response of electrodes of submicron dimensions. Violation of electroneutrality in the presence of excess supporting electrolyte. <i>Analytical Chemistry</i> , 1993 , 65, 3343-3353	7.8	144
215	Voltammetry of molecular films containing acid/base groups. <i>Langmuir</i> , 1993 , 9, 1-3	4	142
214	A synthetic chemist's guide to electroanalytical tools for studying reaction mechanisms. <i>Chemical Science</i> , 2019 , 10, 6404-6422	9.4	136
213	Electrochemical characterization of electrodes with submicrometer dimensions. <i>Analytical Chemistry</i> , 2000 , 72, 4441-6	7.8	135
212	Fabrication inside microchannels using fluid flow. <i>Accounts of Chemical Research</i> , 2000 , 33, 841-7	24.3	133
211	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
210	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
209	A nonlocal free-energy density-functional approximation for the electrical double layer. <i>Journal of Chemical Physics</i> , 1990 , 92, 5087-5098	3.9	122
208	Electrogeneration of single nanobubbles at sub-50-nm-radius platinum nanodisk electrodes. <i>Langmuir</i> , 2013 , 29, 11169-75	4	121
207	Iontophoretic transport through porous membranes using scanning electrochemical microscopy: application to in vitro studies of ion fluxes through skin. <i>Analytical Chemistry</i> , 1993 , 65, 1537-45	7.8	121
206	Resistive-pulse analysis of nanoparticles. <i>Annual Review of Analytical Chemistry</i> , 2014 , 7, 513-35	12.5	115
205	Electrochemistry at platinum bare electrodes of width approaching molecular dimensions: breakdown of transport equations at very small electrodes. <i>The Journal of Physical Chemistry</i> , 1987 , 91, 3559-3564		115
204	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

203	Scanning Electrochemical Microscopy of Precursor Sites for Pitting Corrosion on Titanium. <i>Journal of the Electrochemical Society</i> , 1993 , 140, L142-L145	3.9	114
202	Electrochemical Measurement of the Free Energy of Adsorption of n-Alkanethiolates at Ag(111). <i>Journal of the American Chemical Society</i> , 1998 , 120, 1062-1069	16.4	113
201	Voltage-Rectified Current and Fluid Flow in Conical Nanopores. <i>Accounts of Chemical Research</i> , 2016 , 49, 2605-2613	24.3	107
200	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-benzoquinone bridging ligand. <i>Journal of the American Chemical Society</i> , 2009 , 131, 6229-36	16.4	101
199	Construction of multifunctional cuboctahedra via coordination-driven self-assembly. <i>Journal of the American Chemical Society</i> , 2009 , 131, 6695-7	16.4	101
198	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
197	Voltammetric Measurement of Interfacial Acid/Base Reactions. <i>Journal of Physical Chemistry B</i> , 1998 , 102, 2930-2934	3.4	99
196	Impedance Analysis of Poly(vinylferrocene) Films: The Dependence of Diffusional Charge Transport and Exchange Current Density on Polymer Oxidation State. <i>Journal of the Electrochemical Society</i> , 1987 , 134, 2198-2204	3.9	99
195	Imaging Molecular Transport in Porous Membranes. Observation and Analysis of Electroosmotic Flow in Individual Pores Using the Scanning Electrochemical Microscope. <i>Analytical Chemistry</i> , 1998 , 70, 1047-1058	7.8	95
194	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
193	Steady-state voltammetric response of the nanopore electrode. <i>Analytical Chemistry</i> , 2006 , 78, 477-83	7.8	91
192	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
191	Chemically modified opals as thin permselective nanoporous membranes. <i>Journal of the American Chemical Society</i> , 2005 , 127, 7268-9	16.4	90
190	A microelectrochemical diode with submicron contact spacing based on the connection of two microelectrodes using dissimilar redox polymers. <i>Journal of the American Chemical Society</i> , 1985 , 107, 7373-7380	16.4	90
189	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
188	Ionic conductivity of the aqueous layer separating a lipid bilayer membrane and a glass support. <i>Langmuir</i> , 2006 , 22, 10777-83	4	88
187	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
186	X-ray photoelectron and Auger electron spectroscopic study of the CdTe surface resulting from various surface pretreatments: Correlation of photoelectrochemical and capacitance-potential behavior with surface chemical composition. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1991 , 9, 810-815	2.9	86

185	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
184	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
183	Stabilization of Metal-Metal Oxide Surfaces Using Electroactive Polymer Films. <i>Journal of the Electrochemical Society</i> , 1989 , 136, 2152-2158	3.9	81
182	Semiconductor Electrodes: XXIX . High Efficiency Photoelectrochemical Solar Cells with Electrodes in an Aqueous Iodide Medium. <i>Journal of the Electrochemical Society</i> , 1980 , 127, 518-520	3.9	80
181	Collision Dynamics during the Electrooxidation of Individual Silver Nanoparticles. <i>Journal of the American Chemical Society</i> , 2017 , 139, 16923-16931	16.4	77
180	Nanopore detection of 8-oxo-7,8-dihydro-2Pdeoxyguanosine 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
179	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
178	Controlling the translocation of single-stranded DNA through alpha-hemolysin ion channels using viscosity. <i>Langmuir</i> , 2009 , 25, 1233-7	4	76
177	Scanning Electrochemical Microscopy: Measurement of the Current Density at Microscopic Redox-Active Sites on Titanium. <i>Journal of Physical Chemistry B</i> , 1998 , 102, 9812-9819	3.4	76
176	Magnetic Field Effects in Electrochemistry. Voltammetric Reduction of Acetophenone at Microdisk Electrodes. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 5913-5922		76
175	Simulations of solvent effects on confined electrolytes. <i>Journal of Chemical Physics</i> , 1993 , 98, 5793-5799	3.9	75
174	Controlling Nanoparticle Dynamics in Conical Nanopores. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 7037-81	3.8	74
173	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
172	A random walk through electron-transfer kinetics. <i>Analytical Chemistry</i> , 2005 , 77, 214 A-220 A	7.8	72
171	Semiconductor electrodes. 31. Photoelectrochemistry and photovoltaic systems with n- and p-type tungsten selenide (WSe ₂) in aqueous solution. <i>Journal of the American Chemical Society</i> , 1980 , 102, 5142-5148	16.4	72
170	Unzipping kinetics of duplex DNA containing oxidized lesions in an Hemolysin nanopore. <i>Journal of the American Chemical Society</i> , 2012 , 134, 11006-11	16.4	70
169	Pitting Corrosion of Titanium The Relationship Between Pitting Potential and Competitive Anion Adsorption at the Oxide Film/Electrolyte Interface. <i>Journal of the Electrochemical Society</i> , 2000 , 147, 1376	3.9	70
168	Electrically facilitated molecular transport. Analysis of the relative contributions of diffusion, migration, and electroosmosis to solute transport in an ion-exchange membrane. <i>Analytical Chemistry</i> , 2000 , 72, 433-42	7.8	69

167	Chemically-Selective and Spatially-Localized Redox Activity at Ta/Ta ₂ O ₅ Electrodes. <i>Langmuir</i> , 1999 , 15, 819-825	4	69
166	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
165	Transport of ionic species in skin: contribution of pores to the overall skin conductance. <i>Pharmaceutical Research</i> , 1993 , 10, 1699-709	4.5	68
164	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
163	Electrochemical Oxidative Adsorption of Ethanethiolate on Ag(111). <i>Journal of the American Chemical Society</i> , 1997 , 119, 6596-6606	16.4	67
162	Oxidative Adsorption of n-Alkanethiolates at Mercury. Dependence of Adsorption Free Energy on Chain Length. <i>Journal of Physical Chemistry B</i> , 1998 , 102, 1235-1240	3.4	66
161	Voltammetric measurement of bimolecular electron-transfer rates in low ionic strength solutions. <i>Analytical Chemistry</i> , 1991 , 63, 1909-1914	7.8	66
160	Electrochemical Generation of a Hydrogen Bubble at a Recessed Platinum Nanopore Electrode. <i>Langmuir</i> , 2015 , 31, 4573-81	4	65
159	Magnetic field induced reversed (Negative) magnetization for electrochemically deposited Tc = 260 K Oxidized Films of Chromium Cyanide Magnets. <i>Advanced Materials</i> , 1997 , 9, 645-647	24	65
158	Alternating current impedance imaging of membrane pores using scanning electrochemical microscopy. <i>Analytical Chemistry</i> , 2005 , 77, 5564-9	7.8	63
157	Magnetic field-controlled microfluidic transport. <i>Journal of the American Chemical Society</i> , 2002 , 124, 462-7	16.4	63
156	Scanning Electrochemical Microscopy of Metal/Metal Oxide Electrodes. Analysis of Spatially Localized Electron-Transfer Reactions during Oxide Growth. <i>Analytical Chemistry</i> , 1999 , 71, 3166-70	7.8	62
155	pH- and ionic strength-controlled cation permselectivity in amine-modified nanoporous opal films. <i>Langmuir</i> , 2006 , 22, 4429-32	4	59
154	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
153	Nanopore detection of 8-oxoguanine in the human telomere repeat sequence. <i>ACS Nano</i> , 2015 , 9, 4296-307	3.7	58
152	Electrochemical Generation of Individual O ₂ Nanobubbles via HO ₂ Oxidation. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 2450-2454	6.4	57
151	Anisotropic Diffusion in Face-Centered Cubic Opals. <i>Nano Letters</i> , 2004 , 4, 875-880	11.5	57
150	Natural Convection at Microelectrodes. <i>Analytical Chemistry</i> , 1995 , 67, 1541-1545	7.8	57

149	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
148	Electrochemistry of nanopore electrodes in low ionic strength solutions. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 1768-74	3.4	56
147	Single Nanochannel Platform for Detecting Chiral Drugs. <i>Analytical Chemistry</i> , 2017 , 89, 1110-1116	7.8	55
146	Diffusional motion of a particle translocating through a nanopore. <i>ACS Nano</i> , 2012 , 6, 1757-65	16.7	54
145	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
144	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
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	Magnetic focusing of redox molecules at ferromagnetic microelectrodes. <i>Electrochemistry Communications</i> , 1999 , 1, 319-323	5.1	51
141	Scanning electrochemical microscopy of a porous membrane. <i>Journal of Membrane Science</i> , 1991 , 58, 71-87	9.6	51
140	Semiconductor Electrodes: XLI . Improvement of Performance of Electrodes by Electrochemical Polymerization of o-Phenylenediamine at Surface Imperfections. <i>Journal of the Electrochemical Society</i> , 1982 , 129, 265-271	3.9	51
139	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
138	Reversed (Negative) Magnetization for Electrochemically Deposited High-T _c Thin Films of Chromium Hexacyanide Magnets. <i>Chemistry of Materials</i> , 1998 , 10, 1386-1395	9.6	49
137	Glass nanopore-based ion-selective electrodes. <i>Analytical Chemistry</i> , 2007 , 79, 3568-74	7.8	49
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	Synthesis of Conducting Polymer Composite Fibers in Electrochemical Flow Cells. <i>Journal of the Electrochemical Society</i> , 1993 , 140, 2473-2476	3.9	48
134	Base-excision repair activity of uracil-DNA glycosylase monitored using the latch zone of Ehemolysin. <i>Journal of the American Chemical Society</i> , 2013 , 135, 19347-53	16.4	47
133	Imaging Microscopic Magnetohydrodynamic Flows. <i>Analytical Chemistry</i> , 1999 , 71, 1923-1927	7.8	46
132	Successive electron-transfers in low ionic strength solutions. Migrational flux coupling by homogeneous electron transfer reactions. <i>Journal of Electroanalytical Chemistry</i> , 1997 , 439, 173-182	4.1	45

131	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
130	On the role of surface states in semiconductor electrode photoelectrochemical cells. <i>Faraday Discussions of the Chemical Society</i> , 1980 , 70, 19		45
129	Polymer films on electrodes. 6. Bioconductive polymers produced by incorporation of tetrathiafulvalenium in a polyelectrolyte (Nafion) matrix. <i>Journal of the American Chemical Society</i> , 1981 , 103, 3937-3938	16.4	45
128	Sizing Individual Au Nanoparticles in Solution with Sub-Nanometer Resolution. <i>ACS Nano</i> , 2015 , 9, 7186-94	16.7	44
127	Ion Transport within High Electric Fields in Nanogap Electrochemical Cells. <i>ACS Nano</i> , 2015 , 9, 8520-9	16.7	44
126	Nanopore Opening at Flat and Nanotip Conical Electrodes during Vesicle Impact Electrochemical Cytometry. <i>ACS Nano</i> , 2018 , 12, 3010-3019	16.7	43
125	High-Speed Multipass Coulter Counter with Ultrahigh Resolution. <i>ACS Nano</i> , 2015 , 9, 12274-82	16.7	43
124	Electrochemistry in nanometer-wide electrochemical cells. <i>Langmuir</i> , 2008 , 24, 2850-5	4	43
123	Electrochemical Processing of Conducting Polymer Fibers. <i>Science</i> , 1993 , 259, 957-960	33.3	43
122	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
121	Electrical signature of the deformation and dehydration of microgels during translocation through nanopores. <i>Soft Matter</i> , 2011 , 7, 8035	3.6	42
120	Effect of comproportionation on the voltammetric reduction of methyl viologen in low ionic strength solutions. <i>Journal of Electroanalytical Chemistry</i> , 1992 , 325, 341-350	4.1	42
119	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
118	Direct imaging of molecular transport through skin. <i>Journal of Investigative Dermatology</i> , 1995 , 104, 1427-33	4.3	40
117	Electroosmotic pore transport in human skin. <i>Pharmaceutical Research</i> , 2003 , 20, 646-52	4.5	39
116	Influence of Magnetic Fields on the Voltammetric Response of Microelectrodes in Highly Concentrated Organic Redox Solutions. <i>Journal of the Electrochemical Society</i> , 1995 , 142, L90-L92	3.9	39
115	Electrochemistry of Sulfur Adlayers on Ag(111). Evidence for a Concentration- and Potential-Dependent Surface-Phase Transition. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 331-338		39
114	Scanning-tunneling-microscopy study of tip-induced transitions of dislocation-network structures on the surface of highly oriented pyrolytic graphite. <i>Physical Review B</i> , 1993 , 47, 10823-10831	3.3	39

113	Laplace Pressure of Individual H Nanobubbles from Pressure-Addition Electrochemistry. <i>Nano Letters</i> , 2016 , 16, 6691-6694	11.5	39
112	Polymer films on electrodes. 10. Electrochemical behavior of solution species at Nafion-tetrathiafulvalenium bromide polymers. <i>Journal of the American Chemical Society</i> , 1982 , 104, 5862-5868	16.4	38
111	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
110	Base Flipping within the 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
109	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
108	Semiconductor Electrodes: XXXIII . Photoelectrochemistry of n-Type in Acetonitrile. <i>Journal of the Electrochemical Society</i> , 1981 , 128, 1045-1055	3.9	36
107	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
106	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
105	The Nucleation Rate of Single O Nanobubbles at Pt Nanoelectrodes. <i>Langmuir</i> , 2018 , 34, 7309-7318	4	35
104	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
103	Resistive-pulse detection of multilamellar liposomes. <i>Langmuir</i> , 2012 , 28, 7572-7	4	34
102	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
101	Visualization and analysis of electroosmotic flow in hairless mouse skin. <i>Pharmaceutical Research</i> , 2000 , 17, 471-5	4.5	34
100	Scanning electrochemical microscopy of membrane transport in the reverse imaging mode. <i>Analytical Chemistry</i> , 2001 , 73, 533-9	7.8	34
99	Depletion layer effects on the response of the electrochemical quartz crystal microbalance. <i>Analytical Chemistry</i> , 1993 , 65, 3232-3237	7.8	34
98	Analysis of the magnetic force generated at a hemispherical microelectrode. <i>Analytical Chemistry</i> , 1997 , 69, 2070-6	7.8	33
97	The Dynamic Steady State of an Electrochemically Generated Nanobubble. <i>Langmuir</i> , 2017 , 33, 1845-1853	3.8	32
96	Analysis of voltammetric half-wave potentials in low ionic strength solutions and voltammetric measurement of ion impurity concentrations. <i>Analytical Chemistry</i> , 1991 , 63, 2766-2771	7.8	32

95	Quartz nanopore membranes for suspended bilayer ion channel recordings. <i>Analytical Chemistry</i> , 2010 , 82, 7259-66	7.8	31
94	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
93	Effects of Instrumental Filters on Electrochemical Measurement of Single-Nanoparticle Collision Dynamics. <i>ChemElectroChem</i> , 2018 , 5, 3059-3067	4.3	30
92	Tunable negative differential electrolyte resistance in a conical nanopore in glass. <i>ACS Nano</i> , 2012 , 6, 6507-14	16.7	30
91	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
90	Voltammetric Determination of the Stochastic Formation Rate and Geometry of Individual H ₂ O and O ₂ Bubble Nuclei. <i>ACS Nano</i> , 2019 , 13, 6330-6340	16.7	29
89	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
88	Three-Dimensional Super-resolution Imaging of Single Nanoparticles Delivered by Pipettes. <i>ACS Nano</i> , 2017 , 11, 10529-10538	16.7	28
87	Internal vs fishhook hairpin DNA: unzipping locations and mechanisms in the hemolysin nanopore. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 12873-82	3.4	28
86	Al ₂ O ₃ Film Dissolution in Aqueous Chloride Solutions. <i>Electrochemical and Solid-State Letters</i> , 2003 , 6, B38		28
85	Rotating Microdisk Voltammetry. <i>Analytical Chemistry</i> , 1995 , 67, 4057-4064	7.8	28
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