

Michael V Mirkin

List of Publications by Year in descending order

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159
papers

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31759

101
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165
all docs

165
docs citations

165
times ranked

5257
citing authors

#	ARTICLE	IF	CITATIONS
1	Scanning Electrochemical Microscopy. Annual Review of Analytical Chemistry, 2008, 1, 95-131.	2.8	381
2	Kinetics of Electron-Transfer Reactions at Nanoelectrodes. Analytical Chemistry, 2006, 78, 6526-6534.	3.2	356
3	Scanning Electrochemical Microscopy. 31. Application of SECM to the Study of Charge Transfer Processes at the Liquid/Liquid Interface. The Journal of Physical Chemistry, 1995, 99, 16033-16042.	2.9	330
4	Scanning electrochemical microscopy. 12. Theory and experiment of the feedback mode with finite heterogeneous electron-transfer kinetics and arbitrary substrate size. The Journal of Physical Chemistry, 1992, 96, 1861-1868.	2.9	309
5	Scanning electrochemical microscopy in the 21st century. Physical Chemistry Chemical Physics, 2007, 9, 802-823.	1.3	276
6	Direct determination of diffusion coefficients by chronoamperometry at microdisk electrodes. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1991, 308, 27-38.	0.3	272
7	Nanometer-Sized Electrochemical Sensors. Analytical Chemistry, 1997, 69, 1627-1634.	3.2	265
8	Scanning electrochemical microscopy part 13. Evaluation of the tip shapes of nanometer size microelectrodes. Journal of Electroanalytical Chemistry, 1992, 328, 47-62.	1.9	254
9	Simple analysis of quasi-reversible steady-state voltammograms. Analytical Chemistry, 1992, 64, 2293-2302.	3.2	236
10	Nanoelectrochemistry of mammalian cells. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 443-448.	3.3	207
11	Scanning electrochemical microscopy. 19. Ion-selective potentiometric microscopy. Analytical Chemistry, 1993, 65, 1213-1224.	3.2	206
12	Electron Transfer at Self-Assembled Monolayers Measured by Scanning Electrochemical Microscopy. Journal of the American Chemical Society, 2004, 126, 1485-1492.	6.6	201
13	Nanoelectrodes for determination of reactive oxygen and nitrogen species inside murine macrophages. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 11534-11539.	3.3	199
14	Probing Ion Transfer at the Liquid/Liquid Interface by Scanning Electrochemical Microscopy (SECM). Journal of Physical Chemistry B, 1998, 102, 9915-9921.	1.2	186
15	Scanning electrochemical microscopy of living cells: Different redox activities of nonmetastatic and metastatic human breast cells. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 9855-9860.	3.3	185
16	Electroanalytical measurements using the scanning electrochemical microscope. Analytica Chimica Acta, 2000, 406, 119-146.	2.6	183
17	Borohydride Oxidation at a Gold Electrode. Journal of the Electrochemical Society, 1992, 139, 2212-2217.	1.3	182
18	Adsorption/Desorption of Hydrogen on Pt Nanoelectrodes: Evidence of Surface Diffusion and Spillover. Journal of the American Chemical Society, 2009, 131, 14756-14760.	6.6	170

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19	Direct Electrochemical Measurements of Reactive Oxygen and Nitrogen Species in Nontransformed and Metastatic Human Breast Cells. <i>Journal of the American Chemical Society</i> , 2017, 139, 13055-13062.	6.6	162
20	Electrochemical attosyringe. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 11895-11900.	3.3	161
21	Scanning Electrochemical Microscopy. 34. Potential Dependence of the Electron-Transfer Rate and Film Formation at the Liquid/Liquid Interface. <i>The Journal of Physical Chemistry</i> , 1996, 100, 17881-17888.	2.9	159
22	Fast Kinetic Measurements with Nanometer-Sized Pipets. Transfer of Potassium Ion from Water into Dichloroethane Facilitated by Dibenzo-18-crown-6. <i>Journal of the American Chemical Society</i> , 1997, 119, 8103-8104.	6.6	158
23	Scanning Electrochemical Microscopy of Individual Catalytic Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 14120-14123.	7.2	150
24	Electrochemistry of Individual Molecules in Zeptoliter Volumes. <i>Journal of the American Chemical Society</i> , 2008, 130, 8241-8250.	6.6	146
25	Long-Range Electron Transfer through a Lipid Monolayer at the Liquid/Liquid Interface. <i>Journal of the American Chemical Society</i> , 1997, 119, 10785-10792.	6.6	145
26	Scanning electrochemical microscopy in the 21st century. Update 1: five years after. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 21196.	1.3	133
27	Scanning electrochemical microscopy. 20. Steady-state measurements of the fast heterogeneous kinetics in the ferrocene/acetonitrile system. <i>The Journal of Physical Chemistry</i> , 1993, 97, 7672-7677.	2.9	123
28	Scanning Electrochemical Microscopy with Gold Nanotips: The Effect of Electrode Material on Electron Transfer Rates. <i>Journal of Physical Chemistry C</i> , 2009, 113, 459-464.	1.5	122
29	Voltammetry at Micropipet Electrodes. <i>Analytical Chemistry</i> , 1998, 70, 3155-3161.	3.2	120
30	Steady-State Limiting Currents at Finite Conical Microelectrodes. <i>Analytical Chemistry</i> , 2002, 74, 1986-1992.	3.2	118
31	Electrochemical Measurements of Reactive Oxygen and Nitrogen Species inside Single Phagolysosomes of Living Macrophages. <i>Journal of the American Chemical Society</i> , 2019, 141, 4564-4568.	6.6	117
32	Electrochemistry at One Nanoparticle. <i>Accounts of Chemical Research</i> , 2016, 49, 2328-2335.	7.6	111
33	Scanning Electrochemical Microscopy of Living Cells. 3. <i>Rhodobactersphaeroides</i> . <i>Analytical Chemistry</i> , 2002, 74, 114-119.	3.2	106
34	Nanoscale Imaging of Surface Topography and Reactivity with the Scanning Electrochemical Microscope. <i>Analytical Chemistry</i> , 2009, 81, 3143-3150.	3.2	95
35	Direct Electrochemical Measurements Inside a 2000 Angstrom Thick Polymer Film by Scanning Electrochemical Microscopy. <i>Science</i> , 1992, 257, 364-366.	6.0	94
36	Polymer Films on Electrodes. 26. Study of Ion Transport and Electron Transfer at Polypyrrole Films by Scanning Electrochemical Microscopy. <i>The Journal of Physical Chemistry</i> , 1995, 99, 5040-5050.	2.9	94

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37	Scanning electrochemical microscopy of living cells. <i>Journal of Electroanalytical Chemistry</i> , 2001, 500, 590-597.	1.9	94
38	Resistive-pulse measurements with nanopipettes: detection of Au nanoparticles and nanoparticle-bound anti-peanut IgY. <i>Chemical Science</i> , 2013, 4, 655-663.	3.7	90
39	Resistive-Pulse Sensing Inside Single Living Cells. <i>Journal of the American Chemical Society</i> , 2020, 142, 5778-5784.	6.6	90
40	Design of Ru-Ni diatomic sites for efficient alkaline hydrogen oxidation. <i>Science Advances</i> , 2022, 8, .	4.7	89
41	Scanning Electrochemical Microscopy. 25. Application to Investigation of the Kinetics of Heterogeneous Electron Transfer at Semiconductor (WSe ₂ and Si) Electrodes. <i>The Journal of Physical Chemistry</i> , 1994, 98, 9106-9114.	2.9	86
42	Probing Rapid Ion Transfer Across a Nanoscopic Liquid-Liquid Interface. <i>Journal of Physical Chemistry B</i> , 2004, 108, 17872-17878.	1.2	85
43	Electrochemistry and Electrocatalysis at Single Gold Nanoparticles Attached to Carbon Nanoelectrodes. <i>ChemElectroChem</i> , 2015, 2, 58-63.	1.7	85
44	Potential-Independent Electron Transfer Rate at the Liquid/Liquid Interface. <i>Journal of the American Chemical Society</i> , 1999, 121, 8352-8355.	6.6	84
45	Nucleation and growth of metal on nanoelectrodes. <i>Chemical Science</i> , 2012, 3, 3307.	3.7	81
46	Liquid/Liquid Interface as a Model System for Studying Electrochemical Catalysis in Microemulsions. Reduction of trans-1,2-Dibromocyclohexane with Vitamin B12. <i>Journal of Physical Chemistry B</i> , 1997, 101, 3202-3208.	1.2	80
47	Voltammetric and Scanning Electrochemical Microscopic Studies of the Adsorption Kinetics and Self-Assembly of Alkanethiol Monolayers on Gold. <i>Israel Journal of Chemistry</i> , 1997, 37, 155-163.	1.0	79
48	Scanning Electrochemical Microscopy of Living Cells. 5. Imaging of Fields of Normal and Metastatic Human Breast Cells. <i>Analytical Chemistry</i> , 2003, 75, 4148-4154.	3.2	79
49	Scanning electrochemical microscopy (SECM) of facilitated ion transfer at the liquid liquid interface. <i>Journal of Electroanalytical Chemistry</i> , 1997, 439, 137-143.	1.9	77
50	Kinetic Study of Rapid Transfer of Tetraethylammonium at the 1,2-Dichloroethane/Water Interface by Nanopipet Voltammetry of Common Ions. <i>Analytical Chemistry</i> , 2010, 82, 77-83.	3.2	77
51	Determination of the kinetic parameters for the electroreduction of fullerene C ₆₀ by scanning electrochemical microscopy and fast scan cyclic voltammetry. <i>Journal of the American Chemical Society</i> , 1993, 115, 201-204.	6.6	75
52	Peer Reviewed: Recent Advances in Scanning Electrochemical Microscopy. <i>Analytical Chemistry</i> , 1996, 68, 177A-182A.	3.2	74
53	Cavity Carbon-Nanopipette Electrodes for Dopamine Detection. <i>Analytical Chemistry</i> , 2019, 91, 4618-4624.	3.2	72
54	Electrochemistry at Microscopic Liquid-Liquid Interfaces. <i>Electroanalysis</i> , 2000, 12, 1433-1446.	1.5	69

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55	Scanning Electrochemical Microscopy with Slightly Recessed Nanotips. <i>Analytical Chemistry</i> , 2007, 79, 5809-5816.	3.2	66
56	Direct high-resolution mapping of electrocatalytic activity of semi-two-dimensional catalysts with single-edge sensitivity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 11618-11623.	3.3	65
57	Scanning Electrochemical Microscopy of Living Cells. 4. Mechanistic Study of Charge Transfer Reactions in Human Breast Cells. <i>Analytical Chemistry</i> , 2002, 74, 6340-6348.	3.2	63
58	Basal Plane Hydrogen Evolution Activity from Mixed Metal Nitride MXenes Measured by Scanning Electrochemical Microscopy. <i>Advanced Functional Materials</i> , 2020, 30, 2001136.	7.8	63
59	Polymer Films on Electrodes. 25. Effect of Polymer Resistance on the Electrochemistry of Poly(vinylferrocene): Scanning Electrochemical Microscopic, Chronoamperometric, and Cyclic Voltammetric Studies. <i>The Journal of Physical Chemistry</i> , 1994, 98, 1475-1481.	2.9	62
60	Carbon Pipette-Based Electrochemical Nanosampler. <i>Analytical Chemistry</i> , 2014, 86, 3365-3372.	3.2	62
61	Nanoelectrochemical Approach To Detecting Short-Lived Intermediates of Electrocatalytic Oxygen Reduction. <i>Journal of the American Chemical Society</i> , 2015, 137, 6517-6523.	6.6	59
62	Electrochemical Resistive-Pulse Sensing. <i>Journal of the American Chemical Society</i> , 2019, 141, 19555-19559.	6.6	59
63	High resolution studies of heterogeneous processes with the scanning electrochemical microscope. <i>Mikrochimica Acta</i> , 1999, 130, 127-153.	2.5	58
64	Open Carbon Nanopipettes as Resistive-Pulse Sensors, Rectification Sensors, and Electrochemical Nanoprobes. <i>Analytical Chemistry</i> , 2014, 86, 8897-8901.	3.2	57
65	Toward the Detection and Identification of Single Bacteria by Electrochemical Collision Technique. <i>Analytical Chemistry</i> , 2018, 90, 12123-12130.	3.2	57
66	Nanopipet Voltammetry of Common Ions across the Liquid-Liquid Interface. Theory and Limitations in Kinetic Analysis of Nanoelectrode Voltammograms. <i>Analytical Chemistry</i> , 2010, 82, 84-90.	3.2	55
67	Multidimensional integral equations. <i>Journal of Electroanalytical Chemistry</i> , 1992, 323, 1-27.	1.9	54
68	Scanning Electrochemical Microscopy. 27. Application of a Simplified Treatment of an Irreversible Homogeneous Reaction following Electron Transfer to the Oxidative Dimerization of 4-Nitrophenolate in Acetonitrile. <i>The Journal of Physical Chemistry</i> , 1994, 98, 5751-5757.	2.9	53
69	Cation Binding to DNA Studied by Ion-Transfer Voltammetry at Micropipets. <i>Analytical Chemistry</i> , 1998, 70, 4653-4660.	3.2	53
70	Atomic Force Microscopy of Electrochemical Nanoelectrodes. <i>Analytical Chemistry</i> , 2012, 84, 5192-5197.	3.2	53
71	Multidimensional integral equations: a new approach to solving microelectrode diffusion problems. <i>Journal of Electroanalytical Chemistry</i> , 1992, 323, 29-51.	1.9	52
72	Voltammetric method for the determination of borohydride concentration in alkaline aqueous solutions. <i>Analytical Chemistry</i> , 1991, 63, 532-533.	3.2	51

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73	Collisions of Ir Oxide Nanoparticles with Carbon Nanopipettes: Experiments with One Nanoparticle. <i>Analytical Chemistry</i> , 2017, 89, 2880-2885.	3.2	51
74	SECM Measurement of the Fast Electron Transfer Dynamics between Au ³⁺ Nanoparticles and Aqueous Redox Species at a Liquid/Liquid Interface. <i>Nano Letters</i> , 2004, 4, 1763-1767.	4.5	48
75	Scanning electrochemical microscopy. 22. Examination of thin solid silver(I) bromide films: ion diffusion in the film and heterogeneous kinetics at the film/solution interface. <i>The Journal of Physical Chemistry</i> , 1993, 97, 10790-10795.	2.9	47
76	Shuttling Mechanism of Ion Transfer at the Interface between Two Immiscible Liquids. <i>Journal of the American Chemical Society</i> , 2006, 128, 15019-15025.	6.6	47
77	Electron transfer/ion transfer mode of scanning electrochemical microscopy (SECM): a new tool for imaging and kinetic studies. <i>Chemical Science</i> , 2013, 4, 3606.	3.7	47
78	Scanning Electrochemical Microscopy of Single Spherical Nanoparticles: Theory and Particle Size Evaluation. <i>Analytical Chemistry</i> , 2015, 87, 7446-7453.	3.2	47
79	Nanoscale mapping of hydrogen evolution on metallic and semiconducting MoS ₂ nanosheets. <i>Nanoscale Horizons</i> , 2019, 4, 619-624.	4.1	46
80	Focused-Ion-Beam-Milled Carbon Nanoelectrodes for Scanning Electrochemical Microscopy. <i>Journal of the Electrochemical Society</i> , 2016, 163, H3032-H3037.	1.3	45
81	Comparative Study of Electron Transfer Reactions at the Ionic Liquid/Water and Organic/Water Interfaces. <i>Journal of the American Chemical Society</i> , 2004, 126, 15380-15381.	6.6	44
82	Dissolution of Pt at Moderately Negative Potentials during Oxygen Reduction in Water and Organic Media. <i>Langmuir</i> , 2013, 29, 1346-1350.	1.6	44
83	Scanning Electrochemical Microscopy Study of Permeability of a Thiolated Aryl Multilayer and Imaging of Single Nanocubes Anchored to It. <i>Langmuir</i> , 2016, 32, 2500-2508.	1.6	44
84	Role of Trace Amounts of Water in Transfers of Hydrophilic and Hydrophobic Ions to Low-Polarity Organic Solvents. <i>Journal of the American Chemical Society</i> , 2007, 129, 12410-12411.	6.6	43
85	Kinetics of Ion Transfer at the Ionic Liquid/Water Nanointerface. <i>Journal of the American Chemical Society</i> , 2010, 132, 16945-16952.	6.6	42
86	Resistive-pulse and rectification sensing with glass and carbon nanopipettes. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2017, 473, 20160931.	1.0	42
87	Electron-Transfer Gated Ion Transport in Carbon Nanopipets. <i>Journal of the American Chemical Society</i> , 2017, 139, 11654-11657.	6.6	41
88	Kinetics of Charge Transfer Reactions at Nanoscopic Electrochemical Interfaces. <i>Israel Journal of Chemistry</i> , 2010, 50, 291-305.	1.0	40
89	Electrochemistry through glass. <i>Nature Chemistry</i> , 2010, 2, 498-502.	6.6	39
90	Polished Nanopipets: New Probes for High-Resolution Scanning Electrochemical Microscopy. <i>Analytical Chemistry</i> , 2011, 83, 671-673.	3.2	39

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91	Nucleation and growth of mercury on Pt nanoelectrodes at different overpotentials. <i>Chemical Science</i> , 2014, 5, 189-194.	3.7	39
92	Resistive-Pulse Measurements with Nanopipettes: Detection of Vascular Endothelial Growth Factor C (VEGF-C) Using Antibody-Decorated Nanoparticles. <i>Analytical Chemistry</i> , 2015, 87, 6403-6410.	3.2	39
93	Correlating Molecule Count and Release Kinetics with Vesicular Size Using Open Carbon Nanopipettes. <i>Journal of the American Chemical Society</i> , 2020, 142, 16910-16914.	6.6	39
94	Studying Ionic Reactions by a New Generation/Collection Technique. <i>Journal of the American Chemical Society</i> , 1998, 120, 12700-12701.	6.6	38
95	Platinized carbon nanoelectrodes as potentiometric and amperometric SECM probes. <i>Journal of Solid State Electrochemistry</i> , 2013, 17, 2971-2977.	1.2	37
96	Dual-Pipet Techniques for Probing Ionic Reactions. <i>Analytical Chemistry</i> , 2000, 72, 510-519.	3.2	36
97	Electrochemical Size Measurement and Characterization of Electrodeposited Platinum Nanoparticles at Nanometer Resolution with Scanning Electrochemical Microscopy. <i>Nano Letters</i> , 2017, 17, 4354-4358.	4.5	36
98	Nanoelectrodes for intracellular measurements of reactive oxygen and nitrogen species in single living cells. <i>Current Opinion in Electrochemistry</i> , 2020, 22, 44-50.	2.5	35
99	Scanning Electrochemical Microscopy: Detection of Human Breast Cancer Cells by Redox Environment. <i>Journal of Mammary Gland Biology and Neoplasia</i> , 2004, 9, 375-382.	1.0	33
100	Toward More Reliable Measurements of Electron-Transfer Kinetics at Nanoelectrodes: Next Approximation. <i>Analytical Chemistry</i> , 2016, 88, 11758-11766.	3.2	33
101	Ultrasensitive Detection of Dopamine with Carbon Nanopipets. <i>Analytical Chemistry</i> , 2019, 91, 12935-12941.	3.2	33
102	The double life of conductive nanopipette: a nanopore and an electrochemical nanosensor. <i>Chemical Science</i> , 2020, 11, 9056-9066.	3.7	33
103	Electron Transfer Kinetics at Polarized Nanoscopic Liquid/Liquid Interfaces. <i>Journal of the American Chemical Society</i> , 2006, 128, 171-179.	6.6	32
104	Delivery of Single Nanoparticles from Nanopipettes under Resistiveâ€Pulse Control. <i>ChemElectroChem</i> , 2015, 2, 343-347.	1.7	31
105	Peer Reviewed: Charge Transfer Reactions at the Liquid/Liquid Interface.. <i>Analytical Chemistry</i> , 2001, 73, 670 A-677 A.	3.2	30
106	Imaging Local Electric Field Distribution by Plasmonic Impedance Microscopy. <i>Analytical Chemistry</i> , 2016, 88, 1547-1552.	3.2	29
107	Ion Transfer at Nanointerfaces between Water and Neat Organic Solvents. <i>Journal of the American Chemical Society</i> , 2005, 127, 8596-8597.	6.6	28
108	Effect of Mechanical Stress on the Kinetics of Heterogeneous Electron Transfer. <i>Langmuir</i> , 2008, 24, 9941-9944.	1.6	28

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109	Cleaning Nanoelectrodes with Air Plasma. <i>Analytical Chemistry</i> , 2015, 87, 4092-4095.	3.2	28
110	Tunneling Mode of Scanning Electrochemical Microscopy: Probing Electrochemical Processes at Single Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 7463-7467.	7.2	28
111	Ostraka: Secure Blockchain Scaling by Node Sharding. , 2020, , .		28
112	Electron Transfer at Liquid/Liquid Interfaces. The Effects of Ionic Adsorption, Electrolyte Concentration, and Spacer Length on the Reaction Rate. <i>Journal of Physical Chemistry B</i> , 2002, 106, 3933-3940.	1.2	27
113	An Electrochiroptical Molecular Switch: Mechanistic and Kinetic Studies. <i>Inorganic Chemistry</i> , 2005, 44, 7652-7660.	1.9	27
114	Fabrication of Nanoelectrodes and Metal Clusters by Electrodeposition. <i>ChemPhysChem</i> , 2010, 11, 3011-3017.	1.0	27
115	Scanning Electrochemical Microscopy 18: Thin Layer Cell Formation with a Mercury Pool Substrate. <i>Journal of the Electrochemical Society</i> , 1992, 139, 3535-3539.	1.3	26
116	Electrochemical detection of lateral charge transport in metal complex-DNA monolayers synthesized on Si(111) electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2007, 603, 67-80.	1.9	25
117	Dissolution of Pt during Oxygen Reduction Reaction Produces Pt Nanoparticles. <i>Analytical Chemistry</i> , 2017, 89, 12618-12621.	3.2	24
118	SECM Study of Solute Partitioning and Electron Transfer at the Ionic Liquid/Water Interface. <i>Langmuir</i> , 2006, 22, 10705-10710.	1.6	23
119	Photo-Scanning Electrochemical Microscopy on the Nanoscale with Through-Tip Illumination. <i>Analytical Chemistry</i> , 2019, 91, 12601-12605.	3.2	23
120	Mediated Charge Transfer at Nanoelectrodes: A New Approach to Electrochemical Reactivity Mapping and Nanosensing. <i>Journal of the American Chemical Society</i> , 2021, 143, 8547-8551.	6.6	22
121	Scanning Electrochemical Microscopy Study of Electron-Transfer Kinetics and Catalysis at Nanoporous Electrodes. <i>Journal of Physical Chemistry C</i> , 2016, 120, 20651-20658.	1.5	21
122	Diffuse Layer Effect on Electron-Transfer Kinetics Measured by Scanning Electrochemical Microscopy (SECM). <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 1338-1342.	2.1	21
123	Fabrication, characterization, and chemical etching of Ag nanoelectrodes. <i>Journal of Solid State Electrochemistry</i> , 2013, 17, 385-389.	1.2	20
124	Surface-Charge Effects on Voltammetry in Carbon Nanocavities. <i>Analytical Chemistry</i> , 2019, 91, 5530-5536.	3.2	20
125	Thin layer cell behavior of CNT yarn and cavity carbon nanopipette electrodes: Effect on catecholamine detection. <i>Electrochimica Acta</i> , 2020, 361, 137032.	2.6	18
126	Surface Patterning Using Diazonium Ink Filled Nanopipette. <i>Analytical Chemistry</i> , 2015, 87, 10956-10962.	3.2	17

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127	Evidence for a potential-dependent reversible inactivation of urease adsorbed on a gold electrode. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1998, 94, 1115-1118.	1.7	16
128	Ultrasensitive Electroanalysis: Femtomolar Determination of Lead, Cobalt, and Nickel. <i>Analytical Chemistry</i> , 2018, 90, 1142-1146.	3.2	16
129	TEM-Assisted Fabrication of Sub-10 nm Scanning Electrochemical Microscopy Tips. <i>Analytical Chemistry</i> , 2019, 91, 15355-15359.	3.2	16
130	Electrochemistry at a single nanoparticle: from bipolar regime to tunnelling. <i>Faraday Discussions</i> , 2018, 210, 173-188.	1.6	15
131	Recessed Nanoelectrodes for Nanogap Voltammetry. <i>ChemElectroChem</i> , 2016, 3, 2043-2047.	1.7	11
132	Light-Controlled Nanoparticle Collision Experiments. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 2972-2976.	2.1	11
133	[10] Probing redox activity of human breast cells by scanning electrochemical microscopy. <i>Methods in Enzymology</i> , 2002, 352, 112-122.	0.4	9
134	Electrochemical Studies of the Lateral Diffusion of TEMPO in the Aqueous Liquid/Vapor Interfacial Region. <i>Journal of Physical Chemistry B</i> , 2006, 110, 6101-6109.	1.2	9
135	Scanning Electrochemical and Photoelectrochemical Microscopy on Finder Grids: Toward Correlative Multitechnique Imaging of Surfaces. <i>Analytical Chemistry</i> , 2021, 93, 5377-5382.	3.2	9
136	Determination of Electrode Kinetics. , 2007, , 639-660.		8
137	Chapter 1. Nanoelectrochemistry at the liquid/liquid interfaces. <i>SPR Electrochemistry</i> , 0, , 1-43.	0.7	8
138	Voltage-Driven Molecular Catalysis of Electrochemical Reactions. <i>Journal of the American Chemical Society</i> , 2021, 143, 17344-17347.	6.6	8
139	Probing Activities of Individual Catalytic Nanoflakes by Tunneling Mode of Scanning Electrochemical Microscopy. <i>Journal of Physical Chemistry C</i> , 2021, 125, 25525-25532.	1.5	7
140	Decoupling Through-Tip Illumination from Scanning in Nanoscale Photo-SECM. <i>Analytical Chemistry</i> , 2022, 94, 7169-7173.	3.2	6
141	Theory and Simulations for the Electron \leftrightarrow Transfer/Ion \leftrightarrow Transfer Mode of Scanning Electrochemical Microscopy in the Presence or Absence of Homogenous Kinetics. <i>ChemElectroChem</i> , 2017, 4, 287-295.	1.7	5
142	Electrochemical Evaluation of the Number of Au Atoms in Polymeric Gold Thiolates by Single Particle Collisions. <i>Analytical Chemistry</i> , 2018, 90, 8285-8289.	3.2	5
143	Catalytic Amplification of Au 144 Nanocluster Collisions by Hydrogen Evolution Reaction. <i>ChemElectroChem</i> , 2018, 5, 2991-2994.	1.7	5
144	Electrochemical microscopy at the nanoscale. <i>Frontiers of Nanoscience</i> , 2021, 18, 129-202.	0.3	5

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145	Stabilizing the heavily-doped and metallic phase of MoS ₂ monolayers with surface functionalization. <i>2D Materials</i> , 2022, 9, 015033.	2.0	5
146	Dynamics of nanointerfaces: general discussion. <i>Faraday Discussions</i> , 2018, 210, 451-479.	1.6	4
147	Metal-Organic Framework-Based Electrochemical Nanosensor for Hydrogen Peroxide. <i>ChemElectroChem</i> , 2022, 9, .	1.7	4
148	Processes at nanopores and bio-nanointerfaces: general discussion. <i>Faraday Discussions</i> , 2018, 210, 145-171.	1.6	3
149	Nitride MXenes: Basal Plane Hydrogen Evolution Activity from Mixed Metal Nitride MXenes Measured by Scanning Electrochemical Microscopy (<i>Adv. Funct. Mater.</i> 47/2020). <i>Advanced Functional Materials</i> , 2020, 30, 2070313.	7.8	3
150	Computer modeling 3-D nucleation and growth. <i>Computers & Chemistry</i> , 1991, 15, 169-174.	1.2	2
151	Kinetics of Quantized Charging of Au 144 Nanoclusters. <i>Electroanalysis</i> , 2016, 28, 2288-2292.	1.5	2
152	Theory and Simulations for the Electron Transfer/Ion Transfer Mode of SECM with Electroactive Species Present in Both Liquid Phases. <i>ChemElectroChem</i> , 2019, 6, 189-194.	1.7	2
153	Electrochemistry at Microscopic Liquid-Liquid Interfaces. , 2000, 12, 1433.		2
154	Scanning Electrochemical Microscopy Beyond Imaging. , 2006, , 431-467.		1
155	Tunneling Mode of Scanning Electrochemical Microscopy: Probing Electrochemical Processes at Single Nanoparticles. <i>Angewandte Chemie</i> , 2018, 130, 7585-7589.	1.6	1
156	Processes at nanoelectrodes: general discussion. <i>Faraday Discussions</i> , 2018, 210, 235-265.	1.6	1
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