Allen J Bard

List of Publications by Year
in descending order

477 papers	54,073 citations	813 118 h-index	1857 209 g-index
489 all docs	489 docs citations	489 times ranked	32510 citing authors

#	Article	IF	Citations
1	Artificial Photosynthesis: Solar Splitting of Water to Hydrogen and Oxygen. Accounts of Chemical Research, 1995, 28, 141-145.	15.6	2,433
2	Voltammetric studies of the interaction of metal chelates with DNA. 2. Tris-chelated complexes of cobalt(III) and iron(II) with 1,10-phenanthroline and 2,2'-bipyridine. Journal of the American Chemical Society, 1989, 111, 8901-8911.	13.7	1,581
3	Scanning electrochemical microscopy. Introduction and principles. Analytical Chemistry, 1989, 61, 132-138.	6.5	1,039
4	Electrochemistry and Electrogenerated Chemiluminescence from Silicon Nanocrystal Quantum Dots. Science, 2002, 296, 1293-1297.	12.6	1,012
5	Photoelectrochemistry and heterogeneous photo-catalysis at semiconductors. Journal of Photochemistry and Photobiology, 1979, 10, 59-75.	0.6	976
6	Electrogenerated Chemiluminescence 69:Â The Tris(2,2â€˜-bipyridine)ruthenium(II), (Ru(bpy)32+)/Tri-n-propylamine (TPrA) System RevisitedA New Route Involving TPrAâ€¢+Cation Radicals. Journal of the American Chemical Society, 2002, 124, 14478-14485.	13.7	847
7	Interaction of Silver(I) Ions with the Respiratory Chain of Escherichia coli:â€‰ An Electrochemical and Scanning Electrochemical Microscopy Study of the Antimicrobial Mechanism of Micromolar Ag+. Biochemistry, 2005, 44, 13214-13223.	2.5	688
8	Electron transfer to and from molecules containing multiple, noninteracting redox centers. Electrochemical oxidation of poly(vinylferrocene). Journal of the American Chemical Society, 1978, 100, 4248-4253.	13.7	634
9	Observing Single Nanoparticle Collisions at an Ultramicroelectrode by Electrocatalytic Amplification. Journal of the American Chemical Society, 2007, 129, 9610-9612.	13.7	605
10	Thermodynamic Guidelines for the Design of Bimetallic Catalysts for Oxygen Electroreduction and Rapid Screening by Scanning Electrochemical Microscopy. Mâ‹Co (M:Â Pd, Ag, Au). Journal of the American Chemical Society, 2005, 127, 357-365.	13.7	587
11	Scanning electrochemical microscopy. Theory of the feedback mode. Analytical Chemistry, 1989, 61, 1221-1227.	6.5	566
12	Improved Photocatalytic Activity and Characterization of Mixed TiO2/SiO2and TiO2/Al2O3Materials. Journal of Physical Chemistry B, 1997, 101, 2611-2616.	2.6	528
13	Amorphous FeOOH Oxygen Evolution Reaction Catalyst for Photoelectrochemical Water Splitting. Journal of the American Chemical Society, 2014, 136, 2843-2850.	13.7	524
14	Visible Light Driven Photoelectrochemical Water Oxidation on Nitrogen-Modified TiO₂ Nanowires. Nano Letters, 2012, 12, 26-32.	9.1	518
15	Heterogeneous photocatalytic oxidation of cyanide ion in aqueous solutions at titanium dioxide powder. Journal of the American Chemical Society, 1977, 99, 303-304.	13.7	505
16	Electrogenerated chemiluminescence. IX. Electrochemistry and emission from systems containing tris(2,2'-bipyridine)ruthenium(II) dichloride. Journal of the American Chemical Society, 1972, 94, 2862-2863.	13.7	498
17	Electrogenerated chemiluminescence. 37. Aqueous ecl systems based on tris(2,2'-bipyridine)ruthenium(2+) and oxalate or organic acids. Journal of the American Chemical Society, 1981, 103, 512-516.	13.7	498
18	Current Rectification at Quartz Nanopipet Electrodes. Analytical Chemistry, 1997, 69, 4627-4633.	6.5	494

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19	Electrogenerated chemiluminescence. XIII. Electrochemical and electrogenerated chemiluminescence studies of ruthenium chelates. Journal of the American Chemical Society, 1973, 95, 6582-6589.	13.7	452
20	Semiconductor Electrodes: X . Photoelectrochemical Behavior of Several Polycrystalline Metal Oxide Electrodes in Aqueous Solutions. Journal of the Electrochemical Society, 1977, 124, 215-224.	2.9	416
21	Factors in the Metal Doping of BiVO₄ for Improved Photoelectrocatalytic Activity as Studied by Scanning Electrochemical Microscopy and First-Principles Density-Functional Calculation. Journal of Physical Chemistry C, 2011, 115, 17870-17879.	3.1	409
22	Electrogenerated Chemiluminescence. 66. The Role of Direct Coreactant Oxidation in the Ruthenium Tris(2,2â€˜)bipyridyl/Tripropylamine System and the Effect of Halide Ions on the Emission Intensity. Analytical Chemistry, 2000, 72, 3223-3232.	6.5	408
23	Current Transients in Single Nanoparticle Collision Events. Journal of the American Chemical Society, 2008, 130, 16669-16677.	13.7	397
24	Electrogenerated Chemiluminescence of CdSe Nanocrystals. Nano Letters, 2002, 2, 1315-1319.	9.1	388
25	Scanning Electrochemical Microscopy. Annual Review of Analytical Chemistry, 2008, 1, 95-131.	5.4	381
26	Pdâ‹Ti and Pdâ‹Coâ‹Au Electrocatalysts as a Replacement for Platinum for Oxygen Reduction in Proton Exchange Membrane Fuel Cells. Journal of the American Chemical Society, 2005, 127, 13100-13101.	13.7	365
27	Electrochemistry and Electrogenerated Chemiluminescence of CdTe Nanoparticles. Nano Letters, 2004, 4, 1153-1161.	9.1	364
28	Heterogeneous photocatalytic synthesis of methane from acetic acid - new Kolbe reaction pathway. Journal of the American Chemical Society, 1978, 100, 2239-2240.	13.7	354
29	A silicon-based photocathode for water reduction with an epitaxial SrTiO3 protection layer and a nanostructured catalyst. Nature Nanotechnology, 2015, 10, 84-90.	31.5	353
30	Voltammetric studies of the interaction of tris(1,10-phenanthroline)cobalt(III) with DNA. Journal of the American Chemical Society, 1987, 109, 7528-7530.	13.7	349
31	Polymer films on electrodes. 4. Nafion-coated electrodes and electrogenerated chemiluminescence of surface-attached tris(2,2'-bipyridine)ruthenium(2+). Journal of the American Chemical Society, 1980, 102, 6641-6642.	13.7	345
32	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
33	Electrogenerated chemiluminescence. 41. Electrogenerated chemiluminescence and chemiluminescence of the Ru(2,21 - bpy)32+-S2O82- system in acetonitrile-water solutions. Journal of the American Chemical Society, 1982, 104, 6891-6895.	13.7	324
34	Electrochemical and Surface Studies of Carbon Dioxide Reduction to Methane and Ethylene at Copper Electrodes in Aqueous Solutions. Journal of the Electrochemical Society, 1989, 136, 1686-1691.	2.9	322
35	Polymer Films on Electrodes: VII . Electrochemical Behavior at Polypyrroleâ€Coated Platinum and Tantalum Electrodes. Journal of the Electrochemical Society, 1982, 129, 1009-1015.	2.9	321
36	Semiconductor Electrodes: V . The Application of Chemically Vapor Deposited Iron Oxide Films to Photosensitized Electrolysis. Journal of the Electrochemical Society, 1976, 123, 1024-1026.	2.9	314

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37	Scanning electrochemical microscopy - a new technique for the characterization and modification of surfaces. Accounts of Chemical Research, 1990, 23, 357-363.	15.6	314
38	Inner-Sphere Heterogeneous Electrode Reactions. Electrocatalysis and Photocatalysis: The Challenge. Journal of the American Chemical Society, 2010, 132, 7559-7567.	13.7	314
39	Triton X-100 concentration effects on membrane permeability of a single HeLa cell by scanning electrochemical microscopy (SECM). Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 16783-16787.	7.1	311
40	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
41	Effect of Surface Passivation on the Electrogenerated Chemiluminescence of CdSe/ZnSe Nanocrystals. Nano Letters, 2003, 3, 1053-1055.	9.1	299
42	Thermodynamic Potential for the Anodic Dissolution of nâ€Type Semiconductors: A Crucial Factor Controlling Durability and Efficiency in Photoelectrochemical Cells and an Important Criterion in the Selection of New Electrode/Electrolyte Systems. Journal of the Electrochemical Society, 1977, 124, 1706-1710.	2.9	291
43	Surface Interrogation Scanning Electrochemical Microscopy of Ni_{1â€“x}Fe_xOOH (0 < x < 0.27) Oxygen Evolving Catalyst: Kinetics of the â€œfastâ€•Iron Sites. Journal of the American Chemical Society, 2016, 138, 313-318.	13.7	280
44	Electrostatic electrochemistry at insulators. Nature Materials, 2008, 7, 505-509.	27.5	261
45	Observing Iridium Oxide (IrO_x) Single Nanoparticle Collisions at Ultramicroelectrodes. Journal of the American Chemical Society, 2010, 132, 13165-13167.	13.7	258
46	Scanning electrochemical microscopy part 13. Evaluation of the tip shapes of nanometer size microelectrodes. Journal of Electroanalytical Chemistry, 1992, 328, 47-62.	3.8	254
47	Electrochemical investigation of the energetics of particulate titanium dioxide photocatalysts. The methyl viologen-acetate system. Journal of the American Chemical Society, 1983, 105, 27-31.	13.7	249
48	Thin-Film Solid-State Electroluminescent Devices Based On Tris(2,2â€˜-bipyridine)ruthenium(II) Complexes. Journal of the American Chemical Society, 2002, 124, 6090-6098.	13.7	248
49	Screening of Electrocatalysts for Photoelectrochemical Water Oxidation on W-Doped BiVO₄ Photocatalysts by Scanning Electrochemical Microscopy. Journal of Physical Chemistry C, 2011, 115, 12464-12470.	3.1	245
50	Kinetic Study of Hydrogen Evolution Reaction over Strained MoS₂ with Sulfur Vacancies Using Scanning Electrochemical Microscopy. Journal of the American Chemical Society, 2016, 138, 5123-5129.	13.7	244
51	Chemiluminescence of Electrogenerated 9,10-Diphenylanthracene Anion Radical1. Journal of the American Chemical Society, 1965, 87, 139-140.	13.7	238
52	Simple analysis of quasi-reversible steady-state voltammograms. Analytical Chemistry, 1992, 64, 2293-2302.	6.5	236
53	Scanning electrochemical and tunneling ultramicroelectrode microscope for high-resolution examination of electrode surfaces in solution. Journal of the American Chemical Society, 1986, 108, 3838-3839.	13.7	227
54	Immobilization and Hybridization of DNA on an Aluminum(III) Alkanebisphosphonate Thin Film with Electrogenerated Chemiluminescent Detection. Journal of the American Chemical Society, 1995, 117, 2627-2631.	13.7	219

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55	Semiconductor electrodes. II. Electrochemistry at n-type titanium dioxide electrodes in acetonitrile solutions. Journal of the American Chemical Society, 1975, 97, 7427-7433.	13.7	212
56	The Electrochromic Process at â€‰WOâ€‰3 Electrodes Prepared by Vacuum Evaporation and Anodic Oxidation of W. Journal of the Electrochemical Society, 1979, 126, 583-591.	2.9	209
57	Photovoltaic effect in symmetrical cells of a liquid crystal porphyrin. The Journal of Physical Chemistry, 1990, 94, 1586-1598.	2.9	207
58	Electrogenerated chemiluminescence. 30. Electrochemical oxidation of oxalate ion in the presence of luminescers in acetonitrile solutions. Journal of the American Chemical Society, 1977, 99, 5399-5403.	13.7	206
59	Electron Transfer at Self-Assembled Monolayers Measured by Scanning Electrochemical Microscopy. Journal of the American Chemical Society, 2004, 126, 1485-1492.	13.7	201
60	Scanning electrochemical microscopy. Apparatus and two-dimensional scans of conductive and insulating substrates. Analytical Chemistry, 1989, 61, 1794-1799.	6.5	196
61	Use of Atomic Force Microscopy for the Study of Surface Acidâ^'Base Properties of Carboxylic Acid-Terminated Self-Assembled Monolayers. Langmuir, 1997, 13, 5114-5119.	3.5	194
62	Scanning Electrochemical Microscopy: VII . Effect of Heterogeneous Electronâ€Transfer Rate at the Substrate on the Tip Feedback Current. Journal of the Electrochemical Society, 1991, 138, 469-474.	2.9	193
63	Dynamic potentialâ€“pH diagrams application to electrocatalysts for wateroxidation. Chemical Science, 2012, 3, 217-229.	7.4	193
64	Enhanced Photoelectrochemical Water Oxidation on Bismuth Vanadate by Electrodeposition of Amorphous Titanium Dioxide. Journal of the American Chemical Society, 2014, 136, 14011-14014.	13.7	193
65	Rapid Screening of BiVO₄-Based Photocatalysts by Scanning Electrochemical Microscopy (SECM) and Studies of Their Photoelectrochemical Properties. Journal of Physical Chemistry C, 2010, 114, 13322-13328.	3.1	192
66	Electrogenerated Chemiluminescence. 67. Dependence of Light Emission of the Tris(2,2â€˜)bipyridylruthenium(II)/Tripropylamine System on Electrode Surface Hydrophobicity. Analytical Chemistry, 2001, 73, 3960-3964.	6.5	189
67	Single Molecule Electrochemistry. Journal of the American Chemical Society, 1996, 118, 9669-9675.	13.7	188
68	Electrogenerated chemiluminescence. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1991, 318, 91-99.	0.1	186
69	Characterizing Emulsions by Observation of Single Droplet Collisionsâ€"Attoliter Electrochemical Reactors. Journal of the American Chemical Society, 2014, 136, 4849-4852.	13.7	186
70	Borohydride Oxidation at a Gold Electrode. Journal of the Electrochemical Society, 1992, 139, 2212-2217.	2.9	182
71	Photoelectrosynthesis of ethane from acetate ion at an n-type titanium dioxide electrode. The photo-Kolbe reaction. Journal of the American Chemical Society, 1977, 99, 7729-7731.	13.7	180
72	Homogeneous Oxidation of Trialkylamines by Metal Complexes and Its Impact on Electrogenerated Chemiluminescence in the Trialkylamine/Ru(bpy)32+System. Journal of Physical Chemistry B, 2001, 105, 210-216.	2.6	180

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73	Scanning Electrochemical Microscopy and Conductive Probe Atomic Force Microscopy Studies of Hydrogen-Terminated Boron-Doped Diamond Electrodes with Different Doping Levels. Journal of Physical Chemistry B, 2004, 108, 15117-15127.	2.6	180
74	Pdâ^'Coâ^'Mo Electrocatalyst for the Oxygen Reduction Reaction in Proton Exchange Membrane Fuel Cells. Journal of Physical Chemistry B, 2005, 109, 22909-22912.	2.6	179
75	DNA Analysis by Application of Pt Nanoparticle Electrochemical Amplification with Single Label Response. Journal of the American Chemical Society, 2012, 134, 10777-10779.	13.7	178
76	Measurement of Double-Layer Forces at the Electrode/Electrolyte Interface Using the Atomic Force Microscope:Â Potential and Anion Dependent Interactions. The Journal of Physical Chemistry, 1996, 100, 18808-18817.	2.9	177
77	Electrogenerated Chemiluminescence 71. Photophysical, Electrochemical, and Electrogenerated Chemiluminescent Properties of Selected Dipyrromethenеâ^'BF2 Dyes. Journal of Physical Chemistry B, 2003, 107, 5036-5042.	2.6	175
78	2,3,7,8,12,13,17,18-Octakis(.beta.-hydroxyethyl)porphyrin (octaethanolporphyrin) and its liquid crystalline derivatives: synthesis and characterization. Journal of the American Chemical Society, 1989, 111, 3024-3029.	13.7	169
79	Observation of Single-Protein and DNA Macromolecule Collisions on Ultramicroelectrodes. Journal of the American Chemical Society, 2015, 137, 8376-8379.	13.7	164
80	Stochastic electrochemistry with electrocatalytic nanoparticles at inert ultramicroelectrodesâ€"theory and experiments. Physical Chemistry Chemical Physics, 2011, 13, 5394.	2.8	160
81	Scanning Electrochemical Microscopy. 34. Potential Dependence of the Electron-Transfer Rate and Film Formation at the Liquid/Liquid Interface. The Journal of Physical Chemistry, 1996, 100, 17881-17888.	2.9	159
82	Polymer Films on Electrodes: XIX . Electrochemical Behavior at Polypyrroleâ€Nafion and Polypyrroleâ€Clay Thin Films on Glassy Carbon Electrodes. Journal of the Electrochemical Society, 1986, 133, 301-304.	2.9	158
83	Enhancement of the Photoluminescence of CdSe Nanocrystals Dispersed in CHCl3by Oxygen Passivation of Surface States. Nano Letters, 2003, 3, 747-749.	9.1	158
84	Real-time monitoring of quorum sensing in 3D-printed bacterial aggregates using scanning electrochemical microscopy. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 18255-18260.	7.1	157
85	Synthesis, Cyclic Voltammetric Studies, and Electrogenerated Chemiluminescence of a New DonorAcceptor Molecule:Â 3,7-[Bis[4-phenyl-2-quinolyl]]-10-methylphenothiazine. Journal of the American Chemical Society, 2001, 123, 9112-9118.	13.7	156
86	Polymer Films on Electrodes: XVI . In Situ Ellipsometric Measurements of Polybipyrazine, Polyaniline, and Polyvinylferrocene Films. Journal of the Electrochemical Society, 1985, 132, 353-359.	2.9	154
87	Semiconductor Electrodes: XI . Behavior of nâ€•and pâ€Type Single Crystal Semconductors Covered with Thin Films. Journal of the Electrochemical Society, 1977, 124, 225-229.	2.9	151
88	Electrogenerated chemiluminescent determination of tris(2,2'-bipyridine)ruthenium ion (Ru(bpy)32+) at low levels. Analytical Chemistry, 1984, 56, 2413-2417.	6.5	151
89	In-Situ Imaging of Ionic Crystal Dissolution Using an Integrated Electrochemical/AFM Probe. Journal of the American Chemical Society, 1996, 118, 6445-6452.	13.7	148
90	Long-Range Electron Transfer through a Lipid Monolayer at the Liquid/Liquid Interface. Journal of the American Chemical Society, 1997, 119, 10785-10792.	13.7	145

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91	Rapid Screening of Effective Dopants for Fe₂O₃ Photocatalysts with Scanning Electrochemical Microscopy and Investigation of Their Photoelectrochemical Properties. Journal of Physical Chemistry C, 2009, 113, 6719-6724.	3.1	142
92	Electrochemistry of Single Nanoparticles via Electrocatalytic Amplification. Israel Journal of Chemistry, 2010, 50, 267-276.	2.3	142
93	Photocurrent enhancement via trapping of photogenerated electrons of titanium dioxide particles. The Journal of Physical Chemistry, 1982, 86, 3599-3605.	2.9	141
94	Semiconductor Electrodes: I . The Chemical Vapor Deposition and Application of Polycrystalline Nâ€Type Titanium Dioxide Electrodes to the Photosensitized Electrolysis of Water. Journal of the Electrochemical Society, 1975, 122, 739-742.	2.9	140
95	Cyclic voltammetry and scanning electrochemical microscopy of ferrocenemethanol at monolayer and bilayer-modified gold electrodes. Journal of Electroanalytical Chemistry, 2003, 547, 83-91.	3.8	138
96	Electrogenerated Chemiluminescence. 70. The Application of ECL to Determine Electrode Potentials of Tri-n-propylamine, Its Radical Cation, and Intermediate Free Radical in MeCN/Benzene Solutionsâ€. Journal of Physical Chemistry A, 2003, 107, 3335-3340.	2.5	138
97	Electrogenerated Chemiluminescence of Ge Nanocrystals. Nano Letters, 2004, 4, 183-185.	9.1	137
98	Monitoring the Electrophoretic Migration and Adsorption of Single Insulating Nanoparticles at Ultramicroelectrodes. Journal of Physical Chemistry B, 2013, 117, 4371-4380.	2.6	137
99	Electrochemical detection of a single cytomegalovirus at an ultramicroelectrode and its antibody anchoring. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 5303-5308.	7.1	137
100	Scanning Electrochemical Microscopy. 60. Quantitative Calibration of the SECM Substrate Generation/Tip Collection Mode and Its Use for the Study of the Oxygen Reduction Mechanism. Analytical Chemistry, 2008, 80, 3254-3260.	6.5	136
101	Interrogation of Surfaces for the Quantification of Adsorbed Species on Electrodes: Oxygen on Gold and Platinum in Neutral Media. Journal of the American Chemical Society, 2008, 130, 16985-16995.	13.7	135
102	Electrogenerated Chemiluminescence of Single Conjugated Polymer Nanoparticles. Journal of the American Chemical Society, 2008, 130, 8906-8907.	13.7	134
103	Self-Assembly of Photoluminescent Copper(I)â^'Dithiol Multilayer Thin Films and Bulk Materials. Langmuir, 1997, 13, 5602-5607.	3.5	132
104	Tunneling Ultramicroelectrode: Nanoelectrodes and Nanoparticle Collisions. Journal of the American Chemical Society, 2014, 136, 8173-8176.	13.7	130
105	Mechanoelectrochemical Catalysis of the Effect of Elastic Strain on a Platinum Nanofilm for the ORR Exerted by a Shape Memory Alloy Substrate. Journal of the American Chemical Society, 2015, 137, 7397-7403.	13.7	130
106	Solution Viscosity Effects on the Heterogeneous Electron Transfer Kinetics of Ferrocenemethanol in Dimethyl Sulfoxideâ^'Water Mixtures. Journal of Physical Chemistry B, 2002, 106, 1392-1398.	2.6	129
107	Formation of monolayer pits of controlled nanometer size on highly oriented pyrolytic graphite by gasification reactions as studied by scanning tunneling microscopy. Journal of the American Chemical Society, 1990, 112, 4598-4599.	13.7	128
108	Electrochemistry of a Single Attoliter Emulsion Droplet in Collisions. Journal of the American Chemical Society, 2015, 137, 2343-2349.	13.7	128

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109	Single Nanoparticle Electrocatalysis: Effect of Monolayers on Particle and Electrode on Electron Transfer. Journal of Physical Chemistry C, 2009, 113, 14978-14982.	3.1	127
110	Electrocatalytic Activity of Individual Pt Nanoparticles Studied by Nanoscale Scanning Electrochemical Microscopy. Journal of the American Chemical Society, 2016, 138, 8560-8568.	13.7	127
111	Scanning electrochemical microscopy. 16. Study of second-order homogeneous chemical reactions via the feedback and generation/collection modes. The Journal of Physical Chemistry, 1992, 96, 4917-4924.	2.9	126
112	Scanning electrochemical microscopy. Journal of Electroanalytical Chemistry, 2000, 491, 22-29.	3.8	126
113	Fabrication and Characterization of Self-Assembled Spherical Gold Ultramicroelectrodes. Analytical Chemistry, 1997, 69, 2323-2328.	6.5	125
114	Scanning Electrochemical Microscopy. 47. Imaging Electrocatalytic Activity for Oxygen Reduction in an Acidic Medium by the Tip Generationâ^'Substrate Collection Mode. Analytical Chemistry, 2003, 75, 2967-2974.	6.5	124
115	Charging and discharging of single conjugated-polymer nanoparticles. Nature Materials, 2007, 6, 680-685.	27.5	124
116	Characterization of particulate titanium dioxide photocatalysts by photoelectrophoretic and electrochemical measurements. Journal of the American Chemical Society, 1981, 103, 3456-3459.	13.7	123
117	Electrochemical Detection of Single Molecules. Accounts of Chemical Research, 1996, 29, 572-578.	15.6	123
118	Scanning Electrochemistry Microscopy (SECM) in the Study of Electron Transfer Kinetics at Liquid/Liquid Interfaces:â€‰ Beyond the Constant Composition Approximation. Journal of Physical Chemistry B, 1999, 103, 7260-7269.	2.6	123
119	Chemically imaging living cells by scanning electrochemical microscopy. Biosensors and Bioelectronics, 2006, 22, 461-472.	10.1	123
120	Chemical, Electrochemical, Gravimetric, and Microscopic Studies on Antimicrobial Silver Films. Journal of Physical Chemistry B, 2002, 106, 279-287.	2.6	122
121	Electrochemical Behavior and Electrogenerated Chemiluminescence of Star-Shaped Dâ^'A Compounds with a 1,3,5-Triazine Core and Substituted Fluorene Arms. Journal of the American Chemical Society, 2010, 132, 10944-10952.	13.7	121
122	Simultaneous Detection of Single Attoliter Droplet Collisions by Electrochemical and Electrogenerated Chemiluminescent Responses. Angewandte Chemie - International Edition, 2014, 53, 11859-11862.	13.8	120
123	A Study of Excimer Emission in Solutions of Poly(9,9-dioctylfluorene) Using Electrogenerated Chemiluminescence. Journal of Physical Chemistry A, 2001, 105, 520-523.	2.5	117
124	Single-Molecule Spectroelectrochemistry (SMS-EC). Journal of the American Chemical Society, 2006, 128, 9028-9029.	13.7	117
125	ZnWO₄/WO₃ Composite for Improving Photoelectrochemical Water Oxidation. Journal of Physical Chemistry C, 2013, 117, 15901-15910.	3.1	117
126	Scanning electrochemical microscopy. 14. Scanning electrochemical microscope induced desorption: a new technique for the measurement of adsorption/desorption kinetics and surface diffusion rates at the solid/liquid interface. The Journal of Physical Chemistry, 1992, 96, 5035-5045.	2.9	116

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127	Electrochemical Detection of Single Phospholipid Vesicle Collisions at a Pt Ultramicroelectrode. Langmuir, 2015, 31, 11734-11739.	3.5	116
128	Electrochromism at Niobium Pentoxide Electrodes in Aqueous and Acetonitrile Solutions. Journal of the Electrochemical Society, 1980, 127, 241-242.	2.9	115
129	An Electrochemical Coulomb Staircase: Detection of Single Electron-Transfer Events at Nanometer Electrodes. Science, 1997, 277, 1791-1793.	12.6	115
130	Characterization and Surface Charge Measurement of Self-Assembled CdS Nanoparticle Films. Chemistry of Materials, 1998, 10, 1160-1165.	6.7	114
131	Probing Size and Substrate Effects on the Hydrogen Evolution Reaction by Single Isolated Pt Atoms, Atomic Clusters, and Nanoparticles. Journal of the American Chemical Society, 2019, 141, 7327-7332.	13.7	114
132	Screening of Photocatalysts by Scanning Electrochemical Microscopy. Analytical Chemistry, 2008, 80, 7445-7450.	6.5	113
133	Surface Interrogation of CoP_i Water Oxidation Catalyst by Scanning Electrochemical Microscopy. Journal of the American Chemical Society, 2015, 137, 612-615.	13.7	113
134	A Study of the Mechanism of the Hydrogen Evolution Reaction on Nickel by Surface Interrogation Scanning Electrochemical Microscopy. Journal of the American Chemical Society, 2017, 139, 4854-4858.	13.7	113
135	Observation of Discrete Au Nanoparticle Collisions by Electrocatalytic Amplification Using Pt Ultramicroelectrode Surface Modification. Journal of Physical Chemistry Letters, 2010, 1, 2671-2674.	4.6	112
136	Photoelectrochemical Characterization of CuInSe₂ and Cu(In_{1â^'x}Ga_x)Se₂ Thin Films for Solar Cells. Journal of Physical Chemistry C, 2011, 115, 234-240.	3.1	112
137	Observation of Single Metal Nanoparticle Collisions by Open Circuit (Mixed) Potential Changes at an Ultramicroelectrode. Journal of the American Chemical Society, 2012, 134, 13212-13215.	13.7	112
138	Integrated chemical systems: photocatalysis at semiconductors incorporated into polymer (Nafion)/mediator systems. Journal of the American Chemical Society, 1983, 105, 7002-7003.	13.7	110
139	Scanning Electrochemical Microscopy: The Application of the Feedback Mode for High Resolution Copper Etching. Journal of the Electrochemical Society, 1989, 136, 3143-3144.	2.9	110
140	High Resolution Etching of Semiconductors by the Feedback Mode of the Scanning Electrochemical Microscope. Journal of the Electrochemical Society, 1990, 137, 2468-2472.	2.9	109
141	Electrochemical and Scanning Tunneling Microscopic Study of Dealloying of Cu3Au. Journal of the Electrochemical Society, 1991, 138, 3224-3235.	2.9	109
142	Dibenzotetraphenylperiflanthene:â€‰ Synthesis, Photophysical Properties, and Electrogenerated Chemiluminescence. Journal of the American Chemical Society, 1996, 118, 2374-2379.	13.7	107
143	Electrodeposition of Isolated Platinum Atoms and Clusters on Bismuthâ€”Characterization and Electrocatalysis. Journal of the American Chemical Society, 2017, 139, 17677-17682.	13.7	106
144	High-Performance Photodetectors Based on Solution-Processed Epitaxial Grown Hybrid Halide Perovskites. Nano Letters, 2018, 18, 994-1000.	9.1	105

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145	Kinetics of Heterogeneous Electron Transfer at Liquid/Liquid Interfaces As Studied by SECM. Journal of Physical Chemistry B, 2001, 105, 6367-6374.	2.6	103
146	High-Brightness and Low-Voltage Light-Emitting Devices Based on Trischelated Ruthenium(II) and Tris(2,2â€˜-bipyridine)osmium(II) Emitter Layers and Low Melting Point Alloy Cathode Contacts. Chemistry of Materials, 2002, 14, 3465-3470.	6.7	103
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