

# Allen J Bard

## List of Publications by Year in descending order

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477  
papers

54,073  
citations

813

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489  
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489  
docs citations

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times ranked

32510  
citing authors

#	ARTICLE	IF	CITATIONS
1	Surface Interrogation of Electrodeposited $\text{MnO}_x$ and $\text{CaMnO}_3$ Perovskites by Scanning Electrochemical Microscopy: Probing Active Sites and Kinetics for the Oxygen Evolution Reaction. <i>Angewandte Chemie</i> , 2021, 133, 807-812.	2.0	8
2	Surface Interrogation of Electrodeposited $\text{MnO}_x$ and $\text{CaMnO}_3$ Perovskites by Scanning Electrochemical Microscopy: Probing Active Sites and Kinetics for the Oxygen Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 794-799.	13.8	51
3	Lipid Membrane Permeability of Synthetic Redox DMPC Liposomes Investigated by Single Electrochemical Collisions. <i>Analytical Chemistry</i> , 2020, 92, 2401-2408.	6.5	24
4	New experimental fundamental electrochemistry for the twenty-first century. <i>Journal of Solid State Electrochemistry</i> , 2020, 24, 2035-2038.	2.5	2
5	Atom-by-atom electrodeposition of single isolated cobalt oxide molecules and clusters for studying the oxygen evolution reaction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 12651-12656.	7.1	63
6	Doping of the Semiconducting Polymer Poly(3-hexylthiophene) (P3HT) in Organic Photoelectrochemical Cells. <i>Journal of Physical Chemistry C</i> , 2020, 124, 3439-3447.	3.1	10
7	Electrochemical Production of Si without Generation of $\text{CO}_2$ Based on the Use of a Dimensionally Stable Anode in Molten $\text{CaCl}_2$ . <i>Angewandte Chemie</i> , 2019, 131, 16369-16374.	2.0	3
8	Electrochemical Production of Si without Generation of $\text{CO}_2$ Based on the Use of a Dimensionally Stable Anode in Molten $\text{CaCl}_2$ . <i>Angewandte Chemie - International Edition</i> , 2019, 58, 16223-16228.	13.8	23
9	Probing Size and Substrate Effects on the Hydrogen Evolution Reaction by Single Isolated Pt Atoms, Atomic Clusters, and Nanoparticles. <i>Journal of the American Chemical Society</i> , 2019, 141, 7327-7332.	13.7	114
10	Electrodeposition of crystalline silicon films from silicon dioxide for low-cost photovoltaic applications. <i>Nature Communications</i> , 2019, 10, 5772.	12.8	70
11	Electrochemically controllable coating of a functional silicon film on carbon materials. <i>Electrochimica Acta</i> , 2018, 269, 610-616.	5.2	26
12	Surface Interrogation Scanning Electrochemical Microscopy for a Photoelectrochemical Reaction: Water Oxidation on a Hematite Surface. <i>Analytical Chemistry</i> , 2018, 90, 3045-3049.	6.5	27
13	Scanning electrochemical microscopy at the nanometer level. <i>Chemical Communications</i> , 2018, 54, 1934-1947.	4.1	101
14	High-Performance Photodetectors Based on Solution-Processed Epitaxial Grown Hybrid Halide Perovskites. <i>Nano Letters</i> , 2018, 18, 994-1000.	9.1	105
15	Direct photoelectrochemical characterization of photocatalytic H, N doped $\text{TiO}_2$ powder suspensions. <i>Journal of Electroanalytical Chemistry</i> , 2018, 819, 38-45.	3.8	10
16	Ultrasensitive Electroanalysis: Femtomolar Determination of Lead, Cobalt, and Nickel. <i>Analytical Chemistry</i> , 2018, 90, 1142-1146.	6.5	16
17	Liquid $\text{Ti}^{4+}$ -Assisted Molten Salt Electrodeposition of Photoresponsive $\text{n}^+\text{-type}$ Silicon Films. <i>Advanced Functional Materials</i> , 2018, 28, 1703551.	14.9	27
18	Production of low-cost silicon films via molten salt electrodeposition. , 2018, , .		0

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19	Extraordinary Dielectric Properties at Heterojunctions of Amorphous Ferroelectrics. Journal of the American Chemical Society, 2018, 140, 17968-17976.	13.7	21
20	Direct Observation of $C_2O_4^{2-}$ and $CO_2^{2-}$ by Oxidation of Oxalate within Nanogap of Scanning Electrochemical Microscope. Journal of the American Chemical Society, 2018, 140, 16178-16183.	13.7	44
21	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
22	Cathodically Dissolved Platinum Resulting from the $O_2$ and $H_2O_2$ Reduction Reactions on Platinum Ultramicroelectrodes. Analytical Chemistry, 2017, 89, 3087-3092.	6.5	33
23	Detection of an Unstable Intermediate in $Br^-$ Electro-oxidation to $Br_3^-$ on a Platinum Electrode in Nitrobenzene by Scanning Electrochemical Microscopy. Electrochimica Acta, 2017, 238, 74-80.	5.2	10
24	Electrochemical Nonadiabatic Electron Transfer via Tunneling to Solution Species through Thin Insulating Films. Journal of the American Chemical Society, 2017, 139, 6114-6119.	13.7	30
25	Electrochemical Size Measurement and Characterization of Electrodeposited Platinum Nanoparticles at Nanometer Resolution with Scanning Electrochemical Microscopy. Nano Letters, 2017, 17, 4354-4358.	9.1	36
26	Ultra-Sensitive Potentiometric Measurements of Dilute Redox Molecule Solutions and Determination of Sensitivity Factors at Platinum Ultramicroelectrodes. Analytical Chemistry, 2017, 89, 9843-9849.	6.5	24
27	Toward Cost-Effective Manufacturing of Silicon Solar Cells: Electrodeposition of High-Quality Si Films in a $CaCl_2$ -based Molten Salt. Angewandte Chemie, 2017, 129, 15274-15278.	2.0	12
28	Toward Cost-Effective Manufacturing of Silicon Solar Cells: Electrodeposition of High-Quality Si Films in a $CaCl_2$ -based Molten Salt. Angewandte Chemie - International Edition, 2017, 56, 15078-15082.	13.8	66
29	Assessment of the Stability and Operability of Cobalt Phosphide Electrocatalyst for Hydrogen Evolution. Analytical Chemistry, 2017, 89, 8574-8579.	6.5	11
30	Visible Light Photoelectrochemical Properties of $PbCrO_4$ , $Pb_2CrO_5$ , and $Pb_5CrO_8$ . Journal of Physical Chemistry C, 2017, 121, 17561-17568.	3.1	11
31	Detection of $CO_2^{2-}$ in the Electrochemical Reduction of Carbon Dioxide in <i>N,N</i> -Dimethylformamide by Scanning Electrochemical Microscopy. Journal of the American Chemical Society, 2017, 139, 18552-18557.	13.7	84
32	In Situ Detection of the Adsorbed Fe(II) Intermediate and the Mechanism of Magnetite Electrodeposition by Scanning Electrochemical Microscopy. Journal of the American Chemical Society, 2017, 139, 15891-15899.	13.7	23
33	Electrodeposition of Isolated Platinum Atoms and Clusters on Bismuth—Characterization and Electrocatalysis. Journal of the American Chemical Society, 2017, 139, 17677-17682.	13.7	106
34	Electrochemical Formation of a <i>p-n</i> Junction on Thin Film Silicon Deposited in Molten Salt. Journal of the American Chemical Society, 2017, 139, 16060-16063.	13.7	56
35	Localized dielectric breakdown and antireflection coating in metal-oxide-semiconductor photoelectrodes. Nature Materials, 2017, 16, 127-131.	27.5	60
36	Millisecond Coulometry via Zeptoliter Droplet Collisions on an Ultramicroelectrode. Electroanalysis, 2016, 28, 2320-2326.	2.9	41

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37	Electrochemical Surface Interrogation of a MoS <sub>2</sub> Hydrogen-Evolving Catalyst: In Situ Determination of the Surface Hydride Coverage and the Hydrogen Evolution Kinetics. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 2748-2752.	4.6	39
38	Photoelectrochemical characterization of p-type CH <sub>3</sub> NH <sub>3</sub> PM <sub>3</sub> perovskite. , 2016, , .		0
39	Enzymatically enhanced collisions on ultramicroelectrodes for specific and rapid detection of individual viruses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 6403-6408.	7.1	86
40	Mechanism of the Br <sup>-</sup> /Br <sub>2</sub> Redox Reaction on Platinum and Glassy Carbon Electrodes in Nitrobenzene by Cyclic Voltammetry. <i>Electrochimica Acta</i> , 2016, 219, 1-9.	5.2	40
41	Nanometer Scale Scanning Electrochemical Microscopy Instrumentation. <i>Analytical Chemistry</i> , 2016, 88, 10284-10289.	6.5	45
42	Optimization of Pbl <sub>2</sub> /MAPbl <sub>3</sub> Perovskite Composites by Scanning Electrochemical Microscopy. <i>Journal of Physical Chemistry C</i> , 2016, 120, 19890-19895.	3.1	50
43	Probing Ion Transfer across Liquid-Liquid Interfaces by Monitoring Collisions of Single Femtoliter Oil Droplets on Ultramicroelectrodes. <i>Analytical Chemistry</i> , 2016, 88, 7754-7761.	6.5	74
44	Optimization of Lead-free Organic-Inorganic Tin(II) Halide Perovskite Semiconductors by Scanning Electrochemical Microscopy. <i>Electrochimica Acta</i> , 2016, 220, 205-210.	5.2	47
45	Advanced Electrochemistry of Individual Metal Clusters Electrodeposited Atom by Atom to Nanometer by Nanometer. <i>Accounts of Chemical Research</i> , 2016, 49, 2587-2595.	15.6	75
46	Electrodeposition of Photoactive Silicon Films for Low-Cost Solar Cells. <i>Journal of the Electrochemical Society</i> , 2016, 163, D506-D514.	2.9	44
47	Electrocatalytic Activity of Individual Pt Nanoparticles Studied by Nanoscale Scanning Electrochemical Microscopy. <i>Journal of the American Chemical Society</i> , 2016, 138, 8560-8568.	13.7	127
48	Application of the Koutecký-Levich Method to the Analysis of Steady State Voltammograms with Ultramicroelectrodes. <i>Analytical Chemistry</i> , 2016, 88, 1742-1747.	6.5	33
49	Toward the Digital Electrochemical Recognition of Cobalt, Iridium, Nickel, and Iron Ion Collisions by Catalytic Amplification. <i>Journal of the American Chemical Society</i> , 2016, 138, 8446-8452.	13.7	35
50	Electrodeposition of Single Nanometer-Size Pt Nanoparticles at a Tunneling Ultramicroelectrode and Determination of Fast Heterogeneous Kinetics for Ru(NH <sub>3</sub> ) <sub>6</sub> <sup>3+</sup> Reduction. <i>Journal of the American Chemical Society</i> , 2016, 138, 975-979.	13.7	57
51	Kinetic Study of Hydrogen Evolution Reaction over Strained MoS <sub>2</sub> with Sulfur Vacancies Using Scanning Electrochemical Microscopy. <i>Journal of the American Chemical Society</i> , 2016, 138, 5123-5129.	13.7	244
52	Surface Interrogation Scanning Electrochemical Microscopy of Ni <sub>1-x</sub> Fe <sub>x</sub> OOH (0 ≤ x ≤ 0.27) Oxygen Evolving Catalyst: Kinetics of the Fast Iron Sites. <i>Journal of the American Chemical Society</i> , 2016, 138, 313-318.	13.7	280
53	Switching Transient Generation in Surface Interrogation Scanning Electrochemical Microscopy and Time-of-Flight Techniques. <i>Analytical Chemistry</i> , 2015, 87, 12276-12280.	6.5	28
54	Single Nanoparticle Collision Events: Tunneling Electron Transfer on a Titanium Dioxide Passivated n-Silicon Electrode. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 13753-13757.	13.8	30

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55	High-Speed Multipass Coulter Counter with Ultrahigh Resolution. ACS Nano, 2015, 9, 12274-12282.	14.6	59
56	Surface Interrogation of CoP <sub>2</sub> Water Oxidation Catalyst by Scanning Electrochemical Microscopy. Journal of the American Chemical Society, 2015, 137, 612-615.	13.7	113
57	Electrochemistry of a Single Attoliter Emulsion Droplet in Collisions. Journal of the American Chemical Society, 2015, 137, 2343-2349.	13.7	128
58	Rapid Characterization of Oxygen-Evolving Electrocatalyst Spot Arrays by the Substrate Generation/Tip Collection Mode of Scanning Electrochemical Microscopy with Decreased O <sub>2</sub> Diffusion Layer Overlap. Journal of Physical Chemistry C, 2015, 119, 2941-2947.	3.1	16
59	Observation of Single-Protein and DNA Macromolecule Collisions on Ultramicroelectrodes. Journal of the American Chemical Society, 2015, 137, 8376-8379.	13.7	164
60	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
61	Mechanochemical 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
62	Observation of Nanometer-Sized Electro-Active Defects in Insulating Layers by Fluorescence Microscopy and Electrochemistry. Analytical Chemistry, 2015, 87, 5730-5737.	6.5	13
63	Electrochemical Vapor Deposition of Semiconductors from Gas Phase with a Solid Membrane Cell. Journal of the American Chemical Society, 2015, 137, 6638-6642.	13.7	2
64	Iridium Oxidation as Observed by Surface Interrogation Scanning Electrochemical Microscopy. Journal of Physical Chemistry C, 2015, 119, 8147-8154.	3.1	42
65	Measurement of Temperature-Dependent Stability Constants of Cu(I) and Cu(II) Chloride Complexes by Voltammetry at a Pt Ultramicroelectrode. Analytical Chemistry, 2015, 87, 3498-3504.	6.5	35
66	Time of First Arrival in Electrochemical Collision Experiments as a Measure of Ultralow Concentrations of Analytes in Solution. Analytical Chemistry, 2015, 87, 4341-4346.	6.5	49
67	An Alkaline Flow Battery Based on the Coordination Chemistry of Iron and Cobalt. Journal of the Electrochemical Society, 2015, 162, A378-A383.	2.9	46
68	A Liquid Junction Photoelectrochemical Solar Cell Based on p-Type MeNH <sub>3</sub> PbI <sub>3</sub> Perovskite with 1.05 V Open-Circuit Photovoltage. Journal of the American Chemical Society, 2015, 137, 14758-14764.	13.7	52
69	Recognizing Single Collisions of PtCl <sub>6</sub> <sup>2-</sup> at Femtomolar Concentrations on Ultramicroelectrodes by Nucleating Electrocatalytic Clusters. Journal of the American Chemical Society, 2015, 137, 13752-13755.	13.7	55
70	Electrochemical Detection of Single Phospholipid Vesicle Collisions at a Pt Ultramicroelectrode. Langmuir, 2015, 31, 11734-11739.	3.5	116
71	Analyzing Benzene and Cyclohexane Emulsion Droplet Collisions on Ultramicroelectrodes. Analytical Chemistry, 2015, 87, 11013-11021.	6.5	65
72	Electrochemistry at a Metal Nanoparticle on a Tunneling Film: A Steady-State Model of Current Densities at a Tunneling Ultramicroelectrode. Journal of the American Chemical Society, 2015, 137, 11321-11326.	13.7	74

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73	Improved Photoelectrochemical Water Oxidation by the WO <sub>3</sub> /CuWO <sub>4</sub> Composite with a Manganese Phosphate Electrocatalyst. <i>Langmuir</i> , 2015, 31, 10897-10903.	3.5	79
74	A silicon-based photocathode for water reduction with an epitaxial SrTiO <sub>3</sub> protection layer and a nanostructured catalyst. <i>Nature Nanotechnology</i> , 2015, 10, 84-90.	31.5	353
75	Detection of the Short-Lived Cation Radical Intermediate in the Electrochemical Oxidation of <i>N,N</i> -Dimethylaniline by Scanning Electrochemical Microscopy. <i>Journal of the American Chemical Society</i> , 2014, 136, 18163-18169.	13.7	60
76	Simultaneous Detection of Single Attoliter Droplet Collisions by Electrochemical and Electrogenerated Chemiluminescent Responses. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 11859-11862.	13.8	120
77	Electrophoretic Migration and Particle Collisions in Scanning Electrochemical Microscopy. <i>Analytical Chemistry</i> , 2014, 86, 11666-11672.	6.5	24
78	Real-time monitoring of quorum sensing in 3D-printed bacterial aggregates using scanning electrochemical microscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 18255-18260.	7.1	157
79	Analyzing Secondary Metabolite Production by 3D Printed Bacterial Populations Using Scanning Electrochemical Microscopy. <i>Microscopy and Microanalysis</i> , 2014, 20, 1182-1183.	0.4	2
80	Detection of the Sn(III) Intermediate and the Mechanism of the Sn(IV)/Sn(II) Electroreduction Reaction in Bromide Media by Cyclic Voltammetry and Scanning Electrochemical Microscopy. <i>Journal of the American Chemical Society</i> , 2014, 136, 311-320.	13.7	37
81	A Life in Electrochemistry. <i>Annual Review of Analytical Chemistry</i> , 2014, 7, 1-21.	5.4	11
82	Electrogenerated Chemiluminescence of Common Organic Luminophores in Water Using an Emulsion System. <i>Journal of the American Chemical Society</i> , 2014, 136, 13546-13549.	13.7	101
83	Enhanced Photoelectrochemical Water Oxidation on Bismuth Vanadate by Electrodeposition of Amorphous Titanium Dioxide. <i>Journal of the American Chemical Society</i> , 2014, 136, 14011-14014.	13.7	193
84	Tunneling Ultramicroelectrode: Nanoelectrodes and Nanoparticle Collisions. <i>Journal of the American Chemical Society</i> , 2014, 136, 8173-8176.	13.7	130
85	Amorphous FeOOH Oxygen Evolution Reaction Catalyst for Photoelectrochemical Water Splitting. <i>Journal of the American Chemical Society</i> , 2014, 136, 2843-2850.	13.7	524
86	Characterizing Emulsions by Observation of Single Droplet Collisions—Attoliter Electrochemical Reactors. <i>Journal of the American Chemical Society</i> , 2014, 136, 4849-4852.	13.7	186
87	ZnWO <sub>4</sub> /WO <sub>3</sub> Composite for Improving Photoelectrochemical Water Oxidation. <i>Journal of Physical Chemistry C</i> , 2013, 117, 15901-15910.	3.1	117
88	Unbiased Photoelectrochemical Water Splitting in a Z-Scheme Device Using W/Mo-Doped BiVO <sub>4</sub> and Zn <sub>x</sub> Cd <sub>1-x</sub> Se. <i>ChemPhysChem</i> , 2013, 14, 2277-2287.	2.1	58
89	Synthesis, Electrochemistry, and Electrogenerated Chemiluminescence of Two BODIPY-Appended Bipyridine Homologues. <i>Journal of the American Chemical Society</i> , 2013, 135, 13558-13566.	13.7	89
90	Compositional Screening of the Pb–Bi–Mo–O System. Spontaneous Formation of a Composite of <i>PbMoO</i> <sub>4</sub> and <i>Bi</i> <sub>2</sub> <i>O</i> <sub>3</sub> with Improved Photoelectrochemical Efficiency and Stability. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 2707-2710.	4.6	36



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91	Rapid Screening by Scanning Electrochemical Microscopy (SECM) of Dopants for Bi <sub>2</sub> WO <sub>6</sub> Improved Photocatalytic Water Oxidation with Zn Doping. Journal of Physical Chemistry C, 2013, 117, 9633-9640.	3.1	79
92	Open Circuit (Mixed) Potential Changes Upon Contact Between Different Inert Electrodes—Size and Kinetic Effects. Analytical Chemistry, 2013, 85, 964-970.	6.5	58
93	Single Collision Events of Conductive Nanoparticles Driven by Migration. Journal of Physical Chemistry C, 2013, 117, 6651-6657.	3.1	64
94	Single Particle Detection by Area Amplification: Single Wall Carbon Nanotube Attachment to a Nanoelectrode. Journal of the American Chemical Society, 2013, 135, 5258-5261.	13.7	90
95	Characterization of Ag <sup>+</sup> toxicity on living fibroblast cells by the ferrocenemethanol and oxygen response with the scanning electrochemical microscope. Journal of Electroanalytical Chemistry, 2013, 688, 61-68.	3.8	22
96	Surface Interrogation Scanning Electrochemical Microscopy (SI-SECM) of Photoelectrochemistry at a W/Mo-BiVO <sub>4</sub> Semiconductor Electrode: Quantification of Hydroxyl Radicals during Water Oxidation. Journal of Physical Chemistry C, 2013, 117, 12093-12102.	3.1	103
97	Electrogenerated Chemiluminescence of Solutions, Films, and Nanoparticles of Dithienylbenzothiadiazole-Based Donor–Acceptor–Donor Red Fluorophore. Fluorescence Quenching Study of Organic Nanoparticles. Journal of the American Chemical Society, 2013, 135, 8868-8873.	13.7	41
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	Metal Doping of BiVO <sub>4</sub> by Composite Electrodeposition with Improved Photoelectrochemical Water Oxidation. Journal of Physical Chemistry C, 2013, 117, 23048-23056.	3.1	94
100	Pattern Recognition Correlating Materials Properties of the Elements to Their Kinetics for the Hydrogen Evolution Reaction. Journal of the American Chemical Society, 2013, 135, 15885-15889.	13.7	38
101	The Study of Multireactional Electrochemical Interfaces via a Tip Generation/Substrate Collection Mode of Scanning Electrochemical Microscopy: The Hydrogen Evolution Reaction for Mn in Acidic Solution. Journal of the American Chemical Society, 2013, 135, 15890-15896.	13.7	48
102	Electrochemical Monitoring of TiO <sub>2</sub> Atomic Layer Deposition by Chronoamperometry and Scanning Electrochemical Microscopy. Chemistry of Materials, 2013, 25, 4165-4172.	6.7	24
103	Electrochemistry. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 11484-11486.	7.1	15
104	Introduction and Principles. , 2012, , 1-14.		7
105	Electrodeposition of Crystalline and Photoactive Silicon Directly from Silicon Dioxide Nanoparticles in Molten CaCl <sub>2</sub> . Angewandte Chemie - International Edition, 2012, 51, 12740-12744.	13.8	77
106	Dynamic potential–pH diagrams application to electrocatalysts for wateroxidation. Chemical Science, 2012, 3, 217-229.	7.4	193
107	Examining Ultramicroelectrodes for Scanning Electrochemical Microscopy by White Light Vertical Scanning Interferometry and Filling Recessed Tips by Electrodeposition of Gold. Analytical Chemistry, 2012, 84, 5159-5163.	6.5	12
108	Synthesis and Characterization of a p-Type Boron Arsenide Photoelectrode. Journal of the American Chemical Society, 2012, 134, 11056-11059.	13.7	74

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109	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
110	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
111	Electrochemistry and Electrogenerated Chemiluminescence of $\pi$ -Stacked Poly(fluorenemethylene) Oligomers. Multiple, Interacting Electron Transfers. Journal of the American Chemical Society, 2012, 134, 16265-16274.	13.7	52
112	Scanning Electrochemical Microscopy Study of Ion Annihilation Electrogenerated Chemiluminescence of Rubrene and $[\text{Ru}(\text{bpy})_3]^{2+}$ . Journal of the American Chemical Society, 2012, 134, 9240-9250.	13.7	33
113	Oligothiophene Nanoparticles: Photophysical and Electrogenerated Chemiluminescence Studies. Journal of Physical Chemistry Letters, 2012, 3, 2035-2038.	4.6	21
114	Visible Light Driven Photoelectrochemical Water Oxidation on Nitrogen-Modified $\text{TiO}_2$ Nanowires. Nano Letters, 2012, 12, 26-32.	9.1	518
115	The application of scanning electrochemical microscopy to the discovery of Pd-W electrocatalysts for the oxygen reduction reaction that demonstrate high activity, stability, and methanol tolerance. Journal of Solid State Electrochemistry, 2012, 16, 2563-2568.	2.5	29
116	Formation of a silicon layer by electroreduction of $\text{SiO}_2$ nanoparticles in $\text{CaCl}_2$ molten salt. Electrochimica Acta, 2012, 65, 57-63.	5.2	71
117	Electrochemistry and Electrogenerated Chemiluminescence of a Spirobifluorene-Based Donor (Triphenylamine)-Acceptor (2,1,3-Benzothiadiazole) Molecule and Its Organic Nanoparticles. Journal of the American Chemical Society, 2011, 133, 5492-5499.	13.7	101
118	Achieving Nanometer Scale Tip-to-Substrate Gaps with Micrometer-Size Ultramicroelectrodes in Scanning Electrochemical Microscopy. Analytical Chemistry, 2011, 83, 9082-9085.	6.5	22
119	Screening of Electrocatalysts for Photoelectrochemical Water Oxidation on W-Doped $\text{BiVO}_4$ Photocatalysts by Scanning Electrochemical Microscopy. Journal of Physical Chemistry C, 2011, 115, 12464-12470.	3.1	245
120	Stochastic electrochemistry with electrocatalytic nanoparticles at inert ultramicroelectrodes—theory and experiments. Physical Chemistry Chemical Physics, 2011, 13, 5394.	2.8	160
121	Electrochemistry and Electrogenerated Chemiluminescence of Some BODIPY Derivatives. Journal of Physical Chemistry C, 2011, 115, 15361-15368.	3.1	31
122	A Method for Rapid Screening of Photosensitizers by Scanning Electrochemical Microscopy (SECM) and the Synthesis and Testing of a Porphyrin Sensitizer. Journal of Physical Chemistry C, 2011, 115, 2592-2599.	3.1	27
123	Localized Electron Transfer and the Effect of Tunneling on the Rates of $[\text{Ru}(\text{bpy})_3]^{2+}$ Oxidation and Reduction As Measured by Scanning Electrochemical Microscopy. Journal of the American Chemical Society, 2011, 133, 15737-15742.	13.7	22
124	Factors in the Metal Doping of $\text{BiVO}_4$ 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
125	Photoelectrochemical Characterization of $\text{CuInSe}_2$ and $\text{Cu}(\text{In}_{1-x}\text{Ga}_x)\text{Se}_2$ Thin Films for Solar Cells. Journal of Physical Chemistry C, 2011, 115, 234-240.	3.1	112
126	Electrochemistry and electrogenerated chemiluminescence of organic nanoparticles. Journal of Solid State Electrochemistry, 2011, 15, 2279-2291.	2.5	35



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127	Electrochemistry of Single Nanoparticles via Electrocatalytic Amplification. Israel Journal of Chemistry, 2010, 50, 267-276.	2.3	142
128	Electrodeposition of Si from organic solvents and studies related to initial stages of Si growth. Electrochimica Acta, 2010, 55, 3797-3803.	5.2	85
129	Evaluation of the Chemical Reactions from Two Electrogenerated Species in Picoliter Volumes by Scanning Electrochemical Microscopy. ChemPhysChem, 2010, 11, 2969-2978.	2.1	8
130	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
131	Observing Iridium Oxide (IrO <sub>x</sub> ) Single Nanoparticle Collisions at Ultramicroelectrodes. Journal of the American Chemical Society, 2010, 132, 13165-13167.	13.7	258
132	Electrochemical Behavior and Electrogenerated Chemiluminescence of Star-Shaped D <sup>π</sup> 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
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134	Rapid Screening of BiVO <sub>4</sub> -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
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