

# Allen J Bard

## List of Publications by Year in descending order

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477  
papers

54,073  
citations

967

118  
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209  
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489  
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489  
docs citations

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times ranked

37296  
citing authors

#	ARTICLE	IF	CITATIONS
1	Surface Interrogation of Electrodeposited MnO <sub>x</sub> and CaMnO <sub>3</sub> Perovskites by Scanning Electrochemical Microscopy: Probing Active Sites and Kinetics for the Oxygen Evolution Reaction. <i>Angewandte Chemie</i> , 2021, 133, 807-812.	1.6	8
2	Surface Interrogation of Electrodeposited MnO <sub>x</sub> and CaMnO <sub>3</sub> 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.	7.2	51
3	Lipid Membrane Permeability of Synthetic Redox DMPC Liposomes Investigated by Single Electrochemical Collisions. <i>Analytical Chemistry</i> , 2020, 92, 2401-2408.	3.2	24
4	New experimental fundamental electrochemistry for the twenty-first century. <i>Journal of Solid State Electrochemistry</i> , 2020, 24, 2035-2038.	1.2	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.	3.3	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.	1.5	10
7	Electrochemical Production of Si without Generation of CO <sub>2</sub> Based on the Use of a Dimensionally Stable Anode in Molten CaCl <sub>2</sub> . <i>Angewandte Chemie</i> , 2019, 131, 16369-16374.	1.6	3
8	Electrochemical Production of Si without Generation of CO <sub>2</sub> Based on the Use of a Dimensionally Stable Anode in Molten CaCl <sub>2</sub> . <i>Angewandte Chemie - International Edition</i> , 2019, 58, 16223-16228.	7.2	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.	6.6	114
10	Electrodeposition of crystalline silicon films from silicon dioxide for low-cost photovoltaic applications. <i>Nature Communications</i> , 2019, 10, 5772.	5.8	70
11	Electrochemically controllable coating of a functional silicon film on carbon materials. <i>Electrochimica Acta</i> , 2018, 269, 610-616.	2.6	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.	3.2	27
13	Scanning electrochemical microscopy at the nanometer level. <i>Chemical Communications</i> , 2018, 54, 1934-1947.	2.2	101
14	High-Performance Photodetectors Based on Solution-Processed Epitaxial Grown Hybrid Halide Perovskites. <i>Nano Letters</i> , 2018, 18, 994-1000.	4.5	105
15	Direct photoelectrochemical characterization of photocatalytic H, N doped TiO <sub>2</sub> powder suspensions. <i>Journal of Electroanalytical Chemistry</i> , 2018, 819, 38-45.	1.9	10
16	Ultrasensitive Electroanalysis: Femtomolar Determination of Lead, Cobalt, and Nickel. <i>Analytical Chemistry</i> , 2018, 90, 1142-1146.	3.2	16
17	Liquid-Assisted Molten Salt Electrodeposition of Photoresponsive n-Type Silicon Films. <i>Advanced Functional Materials</i> , 2018, 28, 1703551.	7.8	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. <i>Journal of the American Chemical Society</i> , 2018, 140, 17968-17976.	6.6	21
20	Direct Observation of $C_2O_4^{2-}$ and $CO_2$ by Oxidation of Oxalate within Nanogap of Scanning Electrochemical Microscope. <i>Journal of the American Chemical Society</i> , 2018, 140, 16178-16183.	6.6	44
21	A Study of the Mechanism of the Hydrogen Evolution Reaction on Nickel by Surface Interrogation Scanning Electrochemical Microscopy. <i>Journal of the American Chemical Society</i> , 2017, 139, 4854-4858.	6.6	113
22	Cathodically Dissolved Platinum Resulting from the $O_2$ and $H_2O_2$ Reduction Reactions on Platinum Ultramicroelectrodes. <i>Analytical Chemistry</i> , 2017, 89, 3087-3092.	3.2	33
23	Detection of an Unstable Intermediate in $Br^-$ Electro-oxidation to $Br_3^-$ on a Platinum Electrode in Nitrobenzene by Scanning Electrochemical Microscopy. <i>Electrochimica Acta</i> , 2017, 238, 74-80.	2.6	10
24	Electrochemical Nonadiabatic Electron Transfer via Tunneling to Solution Species through Thin Insulating Films. <i>Journal of the American Chemical Society</i> , 2017, 139, 6114-6119.	6.6	30
25	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
26	Ultra-Sensitive Potentiometric Measurements of Dilute Redox Molecule Solutions and Determination of Sensitivity Factors at Platinum Ultramicroelectrodes. <i>Analytical Chemistry</i> , 2017, 89, 9843-9849.	3.2	24
27	Toward Cost-Effective Manufacturing of Silicon Solar Cells: Electrodeposition of High-Quality Si Films in a $CaCl_2$ -based Molten Salt. <i>Angewandte Chemie</i> , 2017, 129, 15274-15278.	1.6	12
28	Toward Cost-Effective Manufacturing of Silicon Solar Cells: Electrodeposition of High-Quality Si Films in a $CaCl_2$ -based Molten Salt. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 15078-15082.	7.2	66
29	Assessment of the Stability and Operability of Cobalt Phosphide Electrocatalyst for Hydrogen Evolution. <i>Analytical Chemistry</i> , 2017, 89, 8574-8579.	3.2	11
30	Visible Light Photoelectrochemical Properties of $PbCrO_4$ , $Pb_2CrO_5$ , and $Pb_5CrO_8$ . <i>Journal of Physical Chemistry C</i> , 2017, 121, 17561-17568.	1.5	11
31	Detection of $CO_2$ in the Electrochemical Reduction of Carbon Dioxide in <i>N,N</i> -Dimethylformamide by Scanning Electrochemical Microscopy. <i>Journal of the American Chemical Society</i> , 2017, 139, 18552-18557.	6.6	84
32	In Situ Detection of the Adsorbed Fe(II) Intermediate and the Mechanism of Magnetite Electrodeposition by Scanning Electrochemical Microscopy. <i>Journal of the American Chemical Society</i> , 2017, 139, 15891-15899.	6.6	23
33	Electrodeposition of Isolated Platinum Atoms and Clusters on Bismuth Characterization and Electrocatalysis. <i>Journal of the American Chemical Society</i> , 2017, 139, 17677-17682.	6.6	106
34	Electrochemical Formation of a <i>p-n</i> Junction on Thin Film Silicon Deposited in Molten Salt. <i>Journal of the American Chemical Society</i> , 2017, 139, 16060-16063.	6.6	56
35	Localized dielectric breakdown and antireflection coating in metal-oxide-semiconductor photoelectrodes. <i>Nature Materials</i> , 2017, 16, 127-131.	13.3	60
36	Millisecond Coulometry via Zeptoliter Droplet Collisions on an Ultramicroelectrode. <i>Electroanalysis</i> , 2016, 28, 2320-2326.	1.5	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.	2.1	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.	3.3	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.	2.6	40
41	Nanometer Scale Scanning Electrochemical Microscopy Instrumentation. <i>Analytical Chemistry</i> , 2016, 88, 10284-10289.	3.2	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.	1.5	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.	3.2	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.	2.6	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.	7.6	75
46	Electrodeposition of Photoactive Silicon Films for Low-Cost Solar Cells. <i>Journal of the Electrochemical Society</i> , 2016, 163, D506-D514.	1.3	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.	6.6	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.	3.2	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.	6.6	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.	6.6	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.	6.6	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.	6.6	280
53	Switching Transient Generation in Surface Interrogation Scanning Electrochemical Microscopy and Time-of-Flight Techniques. <i>Analytical Chemistry</i> , 2015, 87, 12276-12280.	3.2	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.	7.2	30

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55	High-Speed Multipass Coulter Counter with Ultrahigh Resolution. ACS Nano, 2015, 9, 12274-12282.	7.3	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.	6.6	113
57	Electrochemistry of a Single Attoliter Emulsion Droplet in Collisions. Journal of the American Chemical Society, 2015, 137, 2343-2349.	6.6	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.	1.5	16
59	Observation of Single-Protein and DNA Macromolecule Collisions on Ultramicroelectrodes. Journal of the American Chemical Society, 2015, 137, 8376-8379.	6.6	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.	3.3	137
61	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.	6.6	130
62	Observation of Nanometer-Sized Electro-Active Defects in Insulating Layers by Fluorescence Microscopy and Electrochemistry. Analytical Chemistry, 2015, 87, 5730-5737.	3.2	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.	6.6	2
64	Iridium Oxidation as Observed by Surface Interrogation Scanning Electrochemical Microscopy. Journal of Physical Chemistry C, 2015, 119, 8147-8154.	1.5	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.	3.2	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.	3.2	49
67	An Alkaline Flow Battery Based on the Coordination Chemistry of Iron and Cobalt. Journal of the Electrochemical Society, 2015, 162, A378-A383.	1.3	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.	6.6	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.	6.6	55
70	Electrochemical Detection of Single Phospholipid Vesicle Collisions at a Pt Ultramicroelectrode. Langmuir, 2015, 31, 11734-11739.	1.6	116
71	Analyzing Benzene and Cyclohexane Emulsion Droplet Collisions on Ultramicroelectrodes. Analytical Chemistry, 2015, 87, 11013-11021.	3.2	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.	6.6	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.	1.6	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.	15.6	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.	6.6	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.	7.2	120
77	Electrophoretic Migration and Particle Collisions in Scanning Electrochemical Microscopy. <i>Analytical Chemistry</i> , 2014, 86, 11666-11672.	3.2	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.	3.3	157
79	Analyzing Secondary Metabolite Production by 3D Printed Bacterial Populations Using Scanning Electrochemical Microscopy. <i>Microscopy and Microanalysis</i> , 2014, 20, 1182-1183.	0.2	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.	6.6	37
81	A Life in Electrochemistry. <i>Annual Review of Analytical Chemistry</i> , 2014, 7, 1-21.	2.8	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.	6.6	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.	6.6	193
84	Tunneling Ultramicroelectrode: Nanoelectrodes and Nanoparticle Collisions. <i>Journal of the American Chemical Society</i> , 2014, 136, 8173-8176.	6.6	130
85	Amorphous FeOOH Oxygen Evolution Reaction Catalyst for Photoelectrochemical Water Splitting. <i>Journal of the American Chemical Society</i> , 2014, 136, 2843-2850.	6.6	524
86	Characterizing Emulsions by Observation of Single Droplet Collisions in Attoliter Electrochemical Reactors. <i>Journal of the American Chemical Society</i> , 2014, 136, 4849-4852.	6.6	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.	1.5	117
88	Unbiased Photoelectrochemical Water Splitting in 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.	1.0	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.	6.6	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>Ni-BiO</i> <sub>2</sub> with Improved Photoelectrochemical Efficiency and Stability. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 2707-2710.	2.1	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.	1.5	79
92	Open Circuit (Mixed) Potential Changes Upon Contact Between Different Inert Electrodes—Size and Kinetic Effects. Analytical Chemistry, 2013, 85, 964-970.	3.2	58
93	Single Collision Events of Conductive Nanoparticles Driven by Migration. Journal of Physical Chemistry C, 2013, 117, 6651-6657.	1.5	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.	6.6	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.	1.9	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.	1.5	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.	6.6	41
98	Monitoring the Electrophoretic Migration and Adsorption of Single Insulating Nanoparticles at Ultramicroelectrodes. Journal of Physical Chemistry B, 2013, 117, 4371-4380.	1.2	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.	1.5	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.	6.6	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.	6.6	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.	3.2	24
103	Electrochemistry. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 11484-11486.	3.3	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.	7.2	77
106	Dynamic potential—pH diagrams application to electrocatalysts for wateroxidation. Chemical Science, 2012, 3, 217-229.	3.7	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.	3.2	12
108	Synthesis and Characterization of a p-Type Boron Arsenide Photoelectrode. Journal of the American Chemical Society, 2012, 134, 11056-11059.	6.6	74

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109	DNA Analysis by Application of Pt Nanoparticle Electrochemical Amplification with Single Label Response. <i>Journal of the American Chemical Society</i> , 2012, 134, 10777-10779.	6.6	178
110	Observation of Single Metal Nanoparticle Collisions by Open Circuit (Mixed) Potential Changes at an Ultramicroelectrode. <i>Journal of the American Chemical Society</i> , 2012, 134, 13212-13215.	6.6	112
111	Electrochemistry and Electrogenerated Chemiluminescence of $\pi$ -Stacked Poly(fluorenemethylene) Oligomers. Multiple, Interacting Electron Transfers. <i>Journal of the American Chemical Society</i> , 2012, 134, 16265-16274.	6.6	52
112	Scanning Electrochemical Microscopy Study of Ion Annihilation Electrogenerated Chemiluminescence of Rubrene and $[\text{Ru}(\text{bpy})_3]^{2+}$ . <i>Journal of the American Chemical Society</i> , 2012, 134, 9240-9250.	6.6	33
113	Oligothiophene Nanoparticles: Photophysical and Electrogenerated Chemiluminescence Studies. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 2035-2038.	2.1	21
114	Visible Light Driven Photoelectrochemical Water Oxidation on Nitrogen-Modified $\text{TiO}_2$ Nanowires. <i>Nano Letters</i> , 2012, 12, 26-32.	4.5	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. <i>Journal of Solid State Electrochemistry</i> , 2012, 16, 2563-2568.	1.2	29
116	Formation of a silicon layer by electroreduction of $\text{SiO}_2$ nanoparticles in $\text{CaCl}_2$ molten salt. <i>Electrochimica Acta</i> , 2012, 65, 57-63.	2.6	71
117	Electrochemistry and Electrogenerated Chemiluminescence of a Spirobifluorene-Based Donor (Triphenylamine)-Acceptor (2,1,3-Benzothiadiazole) Molecule and Its Organic Nanoparticles. <i>Journal of the American Chemical Society</i> , 2011, 133, 5492-5499.	6.6	101
118	Achieving Nanometer Scale Tip-to-Substrate Gaps with Micrometer-Size Ultramicroelectrodes in Scanning Electrochemical Microscopy. <i>Analytical Chemistry</i> , 2011, 83, 9082-9085.	3.2	22
119	Screening of Electrocatalysts for Photoelectrochemical Water Oxidation on W-Doped $\text{BiVO}_4$ Photocatalysts by Scanning Electrochemical Microscopy. <i>Journal of Physical Chemistry C</i> , 2011, 115, 12464-12470.	1.5	245
120	Stochastic electrochemistry with electrocatalytic nanoparticles at inert ultramicroelectrodes—theory and experiments. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 5394.	1.3	160
121	Electrochemistry and Electrogenerated Chemiluminescence of Some BODIPY Derivatives. <i>Journal of Physical Chemistry C</i> , 2011, 115, 15361-15368.	1.5	31
122	A Method for Rapid Screening of Photosensitizers by Scanning Electrochemical Microscopy (SECM) and the Synthesis and Testing of a Porphyrin Sensitizer. <i>Journal of Physical Chemistry C</i> , 2011, 115, 2592-2599.	1.5	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. <i>Journal of the American Chemical Society</i> , 2011, 133, 15737-15742.	6.6	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. <i>Journal of Physical Chemistry C</i> , 2011, 115, 17870-17879.	1.5	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. <i>Journal of Physical Chemistry C</i> , 2011, 115, 234-240.	1.5	112
126	Electrochemistry and electrogenerated chemiluminescence of organic nanoparticles. <i>Journal of Solid State Electrochemistry</i> , 2011, 15, 2279-2291.	1.2	35



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127	Electrochemistry of Single Nanoparticles via Electrocatalytic Amplification. <i>Israel Journal of Chemistry</i> , 2010, 50, 267-276.	1.0	142
128	Electrodeposition of Si from organic solvents and studies related to initial stages of Si growth. <i>Electrochimica Acta</i> , 2010, 55, 3797-3803.	2.6	85
129	Evaluation of the Chemical Reactions from Two Electrogenerated Species in Picoliter Volumes by Scanning Electrochemical Microscopy. <i>ChemPhysChem</i> , 2010, 11, 2969-2978.	1.0	8
130	Triton X-100 concentration effects on membrane permeability of a single HeLa cell by scanning electrochemical microscopy (SECM). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 16783-16787.	3.3	311
131	Observing Iridium Oxide (IrO <sub>x</sub> ) Single Nanoparticle Collisions at Ultramicroelectrodes. <i>Journal of the American Chemical Society</i> , 2010, 132, 13165-13167.	6.6	258
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