Allen J Bard

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

477 papers	46,599 citations	110 h-index	194 g-index
489 ext. papers	49,940 ext. citations	8.7 avg, IF	7.8 L-index

#	Paper	IF	Citations
477	Surface Interrogation of Electrodeposited MnOx and CaMnO3 Perovskites by Scanning Electrochemical Microscopy: Probing Active Sites and Kinetics for the Oxygen Evolution Reaction. *Angewandte Chemie*, **2021**, 133, 807-812	3.6	3
476	Surface Interrogation of Electrodeposited MnO and CaMnO Perovskites by Scanning Electrochemical Microscopy: Probing Active Sites and Kinetics for the Oxygen Evolution Reaction. *Angewandte Chemie - International Edition*, **2021**, 60, 794-799	16.4	25
475	New experimental fundamental electrochemistry for the twenty-first century. *Journal of Solid State Electrochemistry*, **2020**, 24, 2035-2038	2.6	1
474	Atom-by-atom electrodeposition of single isolated cobalt oxide molecules and clusters for studying the oxygen evolution reaction. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 12651-12656	11.5	42
473	Doping of the Semiconducting Polymer Poly(3-hexylthiophene) (P3HT) in Organic Photoelectrochemical Cells. *Journal of Physical Chemistry C*, **2020**, 124, 3439-3447	3.8	6
472	Lipid Membrane Permeability of Synthetic Redox DMPC Liposomes Investigated by Single Electrochemical Collisions. *Analytical Chemistry*, **2020**, 92, 2401-2408	7.8	11
471	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	16.4	73
470	Electrochemical Production of Si without Generation of CO2 Based on the Use of a Dimensionally Stable Anode in Molten CaCl2. *Angewandte Chemie*, **2019**, 131, 16369-16374	3.6	1
469	Electrochemical Production of Si without Generation of CO Based on the Use of a Dimensionally Stable Anode in Molten CaCl. *Angewandte Chemie - International Edition*, **2019**, 58, 16223-16228	16.4	13
468	Electrodeposition of crystalline silicon films from silicon dioxide for low-cost photovoltaic applications. *Nature Communications*, **2019**, 10, 5772	17.4	32
467	Electrochemically controllable coating of a functional silicon film on carbon materials. *Electrochimica Acta*, **2018**, 269, 610-616	6.7	18
466	Surface Interrogation Scanning Electrochemical Microscopy for a Photoelectrochemical Reaction: Water Oxidation on a Hematite Surface. *Analytical Chemistry*, **2018**, 90, 3045-3049	7.8	19
465	Scanning electrochemical microscopy at the nanometer level. *Chemical Communications*, **2018**, 54, 1934-1947	5.4	69
464	High-Performance Photodetectors Based on Solution-Processed Epitaxial Grown Hybrid Halide Perovskites. *Nano Letters*, **2018**, 18, 994-1000	11.5	77
463	Direct photoelectrochemical characterization of photocatalytic H, N doped TiO2 powder suspensions. *Journal of Electroanalytical Chemistry*, **2018**, 819, 38-45	4.1	8
462	Ultrasensitive Electroanalysis: Femtomolar Determination of Lead, Cobalt, and Nickel. *Analytical Chemistry*, **2018**, 90, 1142-1146	7.8	14
461	Liquid-Tin-Assisted Molten Salt Electrodeposition of Photoresponsive n-Type Silicon Films. *Advanced Functional Materials*, **2018**, 28, 1703551	15.6	21

460	Extraordinary Dielectric Properties at Heterojunctions of Amorphous Ferroelectrics. *Journal of the American Chemical Society*, **2018**, 140, 17968-17976	16.4	12
459	Direct Observation of CO and CO by Oxidation of Oxalate within Nanogap of Scanning Electrochemical Microscope. *Journal of the American Chemical Society*, **2018**, 140, 16178-16183	16.4	26
458	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	16.4	75
457	Cathodically Dissolved Platinum Resulting from the O and HO Reduction Reactions on Platinum Ultramicroelectrodes. *Analytical Chemistry*, **2017**, 89, 3087-3092	7.8	24
456	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	6.7	9
455	Electrochemical Nonadiabatic Electron Transfer via Tunneling to Solution Species through Thin Insulating Films. *Journal of the American Chemical Society*, **2017**, 139, 6114-6119	16.4	24
454	Electrochemical Size Measurement and Characterization of Electrodeposited Platinum Nanoparticles at Nanometer Resolution with Scanning Electrochemical Microscopy. *Nano Letters*, **2017**, 17, 4354-4358	11.5	24
453	Ultra-Sensitive Potentiometric Measurements of Dilute Redox Molecule Solutions and Determination of Sensitivity Factors at Platinum Ultramicroelectrodes. *Analytical Chemistry*, **2017**, 89, 9843-9849	7.8	19
452	Toward Cost-Effective Manufacturing of Silicon Solar Cells: Electrodeposition of High-Quality Si Films in a CaCl2-based Molten Salt. *Angewandte Chemie*, **2017**, 129, 15274-15278	3.6	7
451	Toward Cost-Effective Manufacturing of Silicon Solar Cells: Electrodeposition of High-Quality Si Films in a CaCl -based Molten Salt. *Angewandte Chemie - International Edition*, **2017**, 56, 15078-15082	16.4	39
450	Assessment of the Stability and Operability of Cobalt Phosphide Electrocatalyst for Hydrogen Evolution. *Analytical Chemistry*, **2017**, 89, 8574-8579	7.8	9
449	Visible Light Photoelectrochemical Properties of PbCrO4, Pb2CrO5, and Pb5CrO8. *Journal of Physical Chemistry C*, **2017**, 121, 17561-17568	3.8	8
448	Detection of CO in the Electrochemical Reduction of Carbon Dioxide in N,N-Dimethylformamide by Scanning Electrochemical Microscopy. *Journal of the American Chemical Society*, **2017**, 139, 18552-18557	16.4	62
447	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	16.4	16
446	Electrodeposition of Isolated Platinum Atoms and Clusters on Bismuth-Characterization and Electrocatalysis. *Journal of the American Chemical Society*, **2017**, 139, 17677-17682	16.4	79
445	Electrochemical Formation of a p-n Junction on Thin Film Silicon Deposited in Molten Salt. *Journal of the American Chemical Society*, **2017**, 139, 16060-16063	16.4	39
444	Localized dielectric breakdown and antireflection coating in metal-oxide-semiconductor photoelectrodes. *Nature Materials*, **2017**, 16, 127-131	27	50
443	Probing Ion Transfer across Liquid-Liquid Interfaces by Monitoring Collisions of Single Femtoliter Oil Droplets on Ultramicroelectrodes. *Analytical Chemistry*, **2016**, 88, 7754-61	7.8	57

442	Optimization of Lead-free Organic–Inorganic Tin(II) Halide Perovskite Semiconductors by Scanning Electrochemical Microscopy. *Electrochimica Acta*, **2016**, 220, 205-210	6.7	34
441	Advanced Electrochemistry of Individual Metal Clusters Electrodeposited Atom by Atom to Nanometer by Nanometer. *Accounts of Chemical Research*, **2016**, 49, 2587-2595	24.3	61
440	Electrodeposition of Photoactive Silicon Films for Low-Cost Solar Cells. *Journal of the Electrochemical Society*, **2016**, 163, D506-D514	3.9	33
439	Electrocatalytic Activity of Individual Pt Nanoparticles Studied by Nanoscale Scanning Electrochemical Microscopy. *Journal of the American Chemical Society*, **2016**, 138, 8560-8	16.4	95
438	Application of the Koutecký–Levich Method to the Analysis of Steady State Voltammograms with Ultramicroelectrodes. *Analytical Chemistry*, **2016**, 88, 1742-7	7.8	26
437	Toward the Digital Electrochemical Recognition of Cobalt, Iridium, Nickel, and Iron Ion Collisions by Catalytic Amplification. *Journal of the American Chemical Society*, **2016**, 138, 8446-52	16.4	28
436	Electrodeposition of Single Nanometer-Size Pt Nanoparticles at a Tunneling Ultramicroelectrode and Determination of Fast Heterogeneous Kinetics for Ru(NH3)6(3+) Reduction. *Journal of the American Chemical Society*, **2016**, 138, 975-9	16.4	50
435	Kinetic Study of Hydrogen Evolution Reaction over Strained MoS2 with Sulfur Vacancies Using Scanning Electrochemical Microscopy. *Journal of the American Chemical Society*, **2016**, 138, 5123-9	16.4	198
434	Surface Interrogation Scanning Electrochemical Microscopy of Ni(1-x)Fe(x)OOH (0 Journal of the American Chemical Society, **2016**, 138, 313-8	16.4	216
433	Millisecond Coulometry via Zeptoliter Droplet Collisions on an Ultramicroelectrode. *Electroanalysis*, **2016**, 28, 2320-2326	3	31
432	Electrochemical Surface Interrogation of a MoS2 Hydrogen-Evolving Catalyst: In Situ Determination of the Surface Hydride Coverage and the Hydrogen Evolution Kinetics. *Journal of Physical Chemistry Letters*, **2016**, 7, 2748-52	6.4	35
431	Enzymatically enhanced collisions on ultramicroelectrodes for specific and rapid detection of individual viruses. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 6403-8	11.5	65
430	Mechanism of the Br⁻/Br 2 Redox Reaction on Platinum and Glassy Carbon Electrodes in Nitrobenzene by Cyclic Voltammetry. *Electrochimica Acta*, **2016**, 219, 1-9	6.7	34
429	Nanometer Scale Scanning Electrochemical Microscopy Instrumentation. *Analytical Chemistry*, **2016** , 88, 10284-10289	7.8	34
428	Optimization of PbI2/MAPbI3 Perovskite Composites by Scanning Electrochemical Microscopy. *Journal of Physical Chemistry C*, **2016**, 120, 19890-19895	3.8	42
427	Observation of Single-Protein and DNA Macromolecule Collisions on Ultramicroelectrodes. *Journal of the American Chemical Society*, **2015**, 137, 8376-9	16.4	129
426	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, 5303-8	11.5	107
425	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, 7397-403	16.4	108

424	Observation of nanometer-sized electro-active defects in insulating layers by fluorescence microscopy and electrochemistry. *Analytical Chemistry*, **2015**, 87, 5730-7	7.8	12
423	Electrochemical vapor deposition of semiconductors from gas phase with a solid membrane cell. *Journal of the American Chemical Society*, **2015**, 137, 6638-42	16.4	1
422	Iridium Oxidation as Observed by Surface Interrogation Scanning Electrochemical Microscopy. *Journal of Physical Chemistry C*, **2015**, 119, 8147-8154	3.8	34
421	Measurement of temperature-dependent stability constants of Cu(I) and Cu(II) chloride complexes by voltammetry at a Pt ultramicroelectrode. *Analytical Chemistry*, **2015**, 87, 3498-504	7.8	26
420	Time of first arrival in electrochemical collision experiments as a measure of ultralow concentrations of analytes in solution. *Analytical Chemistry*, **2015**, 87, 4341-6	7.8	46
419	An Alkaline Flow Battery Based on the Coordination Chemistry of Iron and Cobalt. *Journal of the Electrochemical Society*, **2015**, 162, A378-A383	3.9	35
418	A Liquid Junction Photoelectrochemical Solar Cell Based on p-Type MeNH3PbI3 Perovskite with 1.05 V Open-Circuit Photovoltage. *Journal of the American Chemical Society*, **2015**, 137, 14758-64	16.4	41
417	Recognizing Single Collisions of PtCl6(2-) at Femtomolar Concentrations on Ultramicroelectrodes by Nucleating Electrocatalytic Clusters. *Journal of the American Chemical Society*, **2015**, 137, 13752-5	16.4	46
416	Electrochemical Detection of Single Phospholipid Vesicle Collisions at a Pt Ultramicroelectrode. *Langmuir*, **2015**, 31, 11734-9	4	91
415	Analyzing Benzene and Cyclohexane Emulsion Droplet Collisions on Ultramicroelectrodes. *Analytical Chemistry*, **2015**, 87, 11013-21	7.8	54
414	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, 11321-6	16.4	61
413	Improved photoelectrochemical water oxidation by the WO3/CuWO4 composite with a manganese phosphate electrocatalyst. *Langmuir*, **2015**, 31, 10897-903	4	68
412	A silicon-based photocathode for water reduction with an epitaxial SrTiO3 protection layer and a nanostructured catalyst. *Nature Nanotechnology*, **2015**, 10, 84-90	28.7	292
411	Switching Transient Generation in Surface Interrogation Scanning Electrochemical Microscopy and Time-of-Flight Techniques. *Analytical Chemistry*, **2015**, 87, 12276-80	7.8	24
410	Single-Nanoparticle Collision Events: Tunneling Electron Transfer on a Titanium Dioxide Passivated n-Silicon Electrode. *Angewandte Chemie - International Edition*, **2015**, 54, 13753-7	16.4	26
409	Single-Nanoparticle Collision Events: Tunneling Electron Transfer on a Titanium Dioxide Passivated n-Silicon Electrode. *Angewandte Chemie*, **2015**, 127, 13957-13961	3.6	9
408	High-Speed Multipass Coulter Counter with Ultrahigh Resolution. *ACS Nano*, **2015**, 9, 12274-82	16.7	43
407	Surface interrogation of CoP(i) water oxidation catalyst by scanning electrochemical microscopy. *Journal of the American Chemical Society*, **2015**, 137, 612-5	16.4	93

406	Electrochemistry of a single attoliter emulsion droplet in collisions. *Journal of the American Chemical Society*, **2015**, 137, 2343-9	16.4	97
405	Rapid Characterization of Oxygen-Evolving Electrocatalyst Spot Arrays by the Substrate Generation/Tip Collection Mode of Scanning Electrochemical Microscopy with Decreased O2 Diffusion Layer Overlap. *Journal of Physical Chemistry C*, **2015**, 119, 2941-2947	3.8	13
404	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. *Journal of the American Chemical Society*, **2014**, 136, 311-20	16.4	30
403	A life in electrochemistry. *Annual Review of Analytical Chemistry*, **2014**, 7, 1-21	12.5	7
402	Electrogenerated chemiluminescence of common organic luminophores in water using an emulsion system. *Journal of the American Chemical Society*, **2014**, 136, 13546-9	16.4	79
401	Enhanced photoelectrochemical water oxidation on bismuth vanadate by electrodeposition of amorphous titanium dioxide. *Journal of the American Chemical Society*, **2014**, 136, 14011-4	16.4	172
400	Tunneling ultramicroelectrode: nanoelectrodes and nanoparticle collisions. *Journal of the American Chemical Society*, **2014**, 136, 8173-6	16.4	116
399	Amorphous FeOOH oxygen evolution reaction catalyst for photoelectrochemical water splitting. *Journal of the American Chemical Society*, **2014**, 136, 2843-50	16.4	424
398	Characterizing emulsions by observation of single droplet collisions--attoliter electrochemical reactors. *Journal of the American Chemical Society*, **2014**, 136, 4849-52	16.4	150
397	Simultaneous Detection of Single Attoliter Droplet Collisions by Electrochemical and Electrogenerated Chemiluminescent Responses. *Angewandte Chemie*, **2014**, 126, 12053-12056	3.6	25
396	Detection of the short-lived cation radical intermediate in the electrochemical oxidation of N,N-dimethylaniline by scanning electrochemical microscopy. *Journal of the American Chemical Society*, **2014**, 136, 18163-9	16.4	42
395	Simultaneous detection of single attoliter droplet collisions by electrochemical and electrogenerated chemiluminescent responses. *Angewandte Chemie - International Edition*, **2014**, 53, 11859-62	16.4	95
394	Electrophoretic migration and particle collisions in scanning electrochemical microscopy. *Analytical Chemistry*, **2014**, 86, 11666-72	7.8	22
393	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, 18255-60	11.5	120
392	Analyzing Secondary Metabolite Production by 3D Printed Bacterial Populations Using Scanning Electrochemical Microscopy. *Microscopy and Microanalysis*, **2014**, 20, 1182-1183	0.5	2
391	ZnWO4/WO3 Composite for Improving Photoelectrochemical Water Oxidation. *Journal of Physical Chemistry C*, **2013**, 117, 15901-15910	3.8	98
390	Unbiased photoelectrochemical water splitting in Z-scheme device using W/Mo-doped BiVO4 and Zn(x)Cd(1-x)Se. *ChemPhysChem*, **2013**, 14, 2277-87	3.2	53
389	Synthesis, electrochemistry, and electrogenerated chemiluminescence of two BODIPY-appended bipyridine homologues. *Journal of the American Chemical Society*, **2013**, 135, 13558-66	16.4	71

388	Compositional Screening of the PbBiMoO System. Spontaneous Formation of a Composite of p-PbMoO4 and n-Bi2O3 with Improved Photoelectrochemical Efficiency and Stability. *Journal of Physical Chemistry Letters*, **2013**, 4, 2707-2710	6.4	34
387	Rapid Screening by Scanning Electrochemical Microscopy (SECM) of Dopants for Bi2WO6 Improved Photocatalytic Water Oxidation with Zn Doping. *Journal of Physical Chemistry C*, **2013**, 117, 9633-9640	3.8	71
386	Open circuit (mixed) potential changes upon contact between different inert electrodes-size and kinetic effects. *Analytical Chemistry*, **2013**, 85, 964-70	7.8	47
385	Single Collision Events of Conductive Nanoparticles Driven by Migration. *Journal of Physical Chemistry C*, **2013**, 117, 6651-6657	3.8	52
384	Single particle detection by area amplification: single wall carbon nanotube attachment to a nanoelectrode. *Journal of the American Chemical Society*, **2013**, 135, 5258-61	16.4	81
383	Characterization of Ag+ toxicity on living fibroblast cells by the ferrocenemethanol and oxygen response with the scanning electrochemical microscope. *Journal of Electroanalytical Chemistry*, **2013**, 688, 61-68	4.1	21
382	Surface Interrogation Scanning Electrochemical Microscopy (SI-SECM) of Photoelectrochemistry at a W/Mo-BiVO4 Semiconductor Electrode: Quantification of Hydroxyl Radicals during Water Oxidation. *Journal of Physical Chemistry C*, **2013**, 117, 12093-12102	3.8	87
381	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, 8868-73	16.4	33
380	Monitoring the electrophoretic migration and adsorption of single insulating nanoparticles at ultramicroelectrodes. *Journal of Physical Chemistry B*, **2013**, 117, 4371-80	3.4	121
379	Metal Doping of BiVO4 by Composite Electrodeposition with Improved Photoelectrochemical Water Oxidation. *Journal of Physical Chemistry C*, **2013**, 117, 23048-23056	3.8	87
378	Pattern recognition correlating materials properties of the elements to their kinetics for the hydrogen evolution reaction. *Journal of the American Chemical Society*, **2013**, 135, 15885-9	16.4	30
377	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, 15890-6	16.4	34
376	Electrochemical Monitoring of TiO2Atomic Layer Deposition by Chronoamperometry and Scanning Electrochemical Microscopy. *Chemistry of Materials*, **2013**, 25, 4165-4172	9.6	20
375	Formation of a silicon layer by electroreduction of SiO2 nanoparticles in CaCl2 molten salt. *Electrochimica Acta*, **2012**, 65, 57-63	6.7	53
374	Introduction and Principles **2012**, 1-14		6
373	Electrodeposition of Crystalline and Photoactive Silicon Directly from Silicon Dioxide Nanoparticles in Molten CaCl2. *Angewandte Chemie*, **2012**, 124, 12912-12916	3.6	16
372	Electrodeposition of crystalline and photoactive silicon directly from silicon dioxide nanoparticles in molten CaCl2. *Angewandte Chemie - International Edition*, **2012**, 51, 12740-4	16.4	60
371	Dynamic potentialpH diagrams application to electrocatalysts for water oxidation. *Chemical Science*, **2012**, 3, 217-229	9.4	169

370	Examining ultramicroelectrodes for scanning electrochemical microscopy by white light vertical scanning interferometry and filling recessed tips by electrodeposition of gold. *Analytical Chemistry*, **2012**, 84, 5159-63	7.8	12
369	Synthesis and characterization of a p-type boron arsenide photoelectrode. *Journal of the American Chemical Society*, **2012**, 134, 11056-9	16.4	59
368	DNA analysis by application of Pt nanoparticle electrochemical amplification with single label response. *Journal of the American Chemical Society*, **2012**, 134, 10777-9	16.4	154
367	Observation of single metal nanoparticle collisions by open circuit (mixed) potential changes at an ultramicroelectrode. *Journal of the American Chemical Society*, **2012**, 134, 13212-5	16.4	98
366	Electrochemistry and electrogenerated chemiluminescence of stacked poly(fluorenemethylene) oligomers. Multiple, interacting electron transfers. *Journal of the American Chemical Society*, **2012**, 134, 16265-74	16.4	39
365	Scanning electrochemical microscopy study of ion annihilation electrogenerated chemiluminescence of rubrene and [Ru(bpy)3]2+. *Journal of the American Chemical Society*, **2012**, 134, 9240-50	16.4	28
364	Oligothiophene Nanoparticles: Photophysical and Electrogenerated Chemiluminescence Studies. *Journal of Physical Chemistry Letters*, **2012**, 3, 2035-2038	6.4	19
363	Visible light driven photoelectrochemical water oxidation on nitrogen-modified TiO2 nanowires. *Nano Letters*, **2012**, 12, 26-32	11.5	464
362	The application of scanning electrochemical microscopy to the discovery of PdW electrocatalysts for the oxygen reduction reaction that demonstrate high activity, stability, and methanol tolerance. *Journal of Solid State Electrochemistry*, **2012**, 16, 2563-2568	2.6	28
361	Electrochemistry. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 11484-6	11.5	12
360	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	3.8	27
359	Localized electron transfer and the effect of tunneling on the rates of Ru(bpy)3(2+) oxidation and reduction as measured by scanning electrochemical microscopy. *Journal of the American Chemical Society*, **2011**, 133, 15737-42	16.4	19
358	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	3.8	354
357	Photoelectrochemical Characterization of CuInSe2 and Cu(In1xGax)Se2 Thin Films for Solar Cells. *Journal of Physical Chemistry C*, **2011**, 115, 234-240	3.8	105
356	Electrochemistry and electrogenerated chemiluminescence of organic nanoparticles. *Journal of Solid State Electrochemistry*, **2011**, 15, 2279-2291	2.6	33
355	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, 5492-9	16.4	94
354	Achieving nanometer scale tip-to-substrate gaps with micrometer-size ultramicroelectrodes in scanning electrochemical microscopy. *Analytical Chemistry*, **2011**, 83, 9082-5	7.8	21
353	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	3.8	219

352	Stochastic electrochemistry with electrocatalytic nanoparticles at inert ultramicroelectrodes--theory and experiments. *Physical Chemistry Chemical Physics*, **2011**, 13, 5394-402	3.6	132
351	Electrochemistry and Electrogenerated Chemiluminescence of Some BODIPY Derivatives. *Journal of Physical Chemistry C*, **2011**, 115, 15361-15368	3.8	25
350	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, 16783-7	11.5	251
349	Observing iridium oxide (IrO(x)) single nanoparticle collisions at ultramicroelectrodes. *Journal of the American Chemical Society*, **2010**, 132, 13165-7	16.4	225
348	Electrochemical behavior and electrogenerated chemiluminescence of star-shaped D-A compounds with a 1,3,5-triazine core and substituted fluorene arms. *Journal of the American Chemical Society*, **2010**, 132, 10944-52	16.4	106
347	Rapid Synthesis and Screening of ZnxCd1−xSySe1−y Photocatalysts by Scanning Electrochemical Microscopy. *Journal of Physical Chemistry C*, **2010**, 114, 20997-21002	3.8	30
346	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	3.8	170
345	Observation of Discrete Au Nanoparticle Collisions by Electrocatalytic Amplification Using Pt Ultramicroelectrode Surface Modification. *Journal of Physical Chemistry Letters*, **2010**, 1, 2671-2674	6.4	101
344	Rapid Preparation and Photoelectrochemical Screening of CuInSe2 and CuInMSe2 Arrays by Scanning Electrochemical Microscopy. *Journal of Physical Chemistry C*, **2010**, 114, 17509-17513	3.8	17
343	Screening of Novel Metal Oxide Photocatalysts by Scanning Electrochemical Microscopy and Research of Their Photoelectrochemical Properties. *Journal of Physical Chemistry C*, **2010**, 114, 1201-1207	3.8	39
342	Reaction of Various Reductants with Oxide Films on Pt Electrodes As Studied by the Surface Interrogation Mode of Scanning Electrochemical Microscopy (SI-SECM): Possible Validity of a Marcus Relationship. *Journal of Physical Chemistry C*, **2010**, 114, 18645-18655	3.8	46
341	Inner-sphere heterogeneous electrode reactions. Electrocatalysis and photocatalysis: the challenge. *Journal of the American Chemical Society*, **2010**, 132, 7559-67	16.4	255
340	Electrochemistry and Electrogenerated Chemiluminescence of a Novel Donor−Acceptor FPhSPFN Red Fluorophore. *Journal of Physical Chemistry C*, **2010**, 114, 9772-9780	3.8	21
339	Electrochemistry and electrogenerated chemiluminescence of dithienylbenzothiadiazole derivative. Differential reactivity of donor and acceptor groups and simulations of radical cation-anion and dication-radical anion annihilations. *Journal of the American Chemical Society*, **2010**	16.4	58
338	Scanning electrochemical microscopy: surface interrogation of adsorbed hydrogen and the open circuit catalytic decomposition of formic acid at platinum. *Journal of the American Chemical Society*, **2010**, 132, 5121-9	16.4	59
337	Electrochemistry of Single Nanoparticles via Electrocatalytic Amplification. *Israel Journal of Chemistry*, **2010**, 50, 267-276	3.4	129
336	Electrodeposition of Si from organic solvents and studies related to initial stages of Si growth. *Electrochimica Acta*, **2010**, 55, 3797-3803	6.7	65
335	Evaluation of the chemical reactions from two electrogenerated species in picoliter volumes by scanning electrochemical microscopy. *ChemPhysChem*, **2010**, 11, 2969-78	3.2	8

334	Efficient and stable blue electrogenerated chemiluminescence of fluorene-substituted aromatic hydrocarbons. *Angewandte Chemie - International Edition*, **2009**, 48, 9300-3	16.4	62
333	Scanning electrochemical microscopy of HeLa cells Effects of ferrocene methanol and silver ion. *Journal of Electroanalytical Chemistry*, **2009**, 628, 35-42	4.1	44
332	Electrogenerated chemiluminescence (ECL) of 2-oxa-bicyclo[3.3.0]octa-4,8-diene-3,6-dione (OBDD). *Journal of Electroanalytical Chemistry*, **2009**, 635, 7-12	4.1	1
331	Green electrogenerated chemiluminescence of highly fluorescent benzothiadiazole and fluorene derivatives. *Journal of the American Chemical Society*, **2009**, 131, 10733-41	16.4	72
330	Reaction of Br2 with adsorbed CO on Pt, studied by the surface interrogation mode of scanning electrochemical microscopy. *Journal of the American Chemical Society*, **2009**, 131, 17046-7	16.4	38
329	Electrogenerated Chemiluminescence of Aromatic Hydrocarbon Nanoparticles in an Aqueous Solution *Journal of Physical Chemistry C*, **2009**, 113, 11575-11578	3.8	59
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