

Allen J Bard

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477
papers

46,599
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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	Artificial Photosynthesis: Solar Splitting of Water to Hydrogen and Oxygen. <i>Accounts of Chemical Research</i> , 1995 , 28, 141-145	24.3	2210
476	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. <i>Journal of the American Chemical Society</i> , 1989 , 111, 8901-8911	16.4	1441
475	Scanning electrochemical microscopy. Introduction and principles. <i>Analytical Chemistry</i> , 1989 , 61, 132-138	8.8	872
474	Electrochemistry and electrogenerated chemiluminescence from silicon nanocrystal quantum dots. <i>Science</i> , 2002 , 296, 1293-7	33.3	869
473	Photoelectrochemistry and heterogeneous photo-catalysis at semiconductors. <i>Journal of Photochemistry and Photobiology</i> , 1979 , 10, 59-75		742
472	Electrogenerated chemiluminescence 69: the tris(2,2'-bipyridine)ruthenium(II), (Ru(bpy) ₃ (2+))/tri-n-propylamine (TPrA) system revisited-a new route involving TPrA*+ cation radicals. <i>Journal of the American Chemical Society</i> , 2002 , 124, 14478-85	16.4	692
471	Interaction of silver(I) ions with the respiratory chain of Escherichia coli: an electrochemical and scanning electrochemical microscopy study of the antimicrobial mechanism of micromolar Ag ⁺ . <i>Biochemistry</i> , 2005 , 44, 13214-23	3.2	578
470	Electron transfer to and from molecules containing multiple, noninteracting redox centers. Electrochemical oxidation of poly(vinylferrocene). <i>Journal of the American Chemical Society</i> , 1978 , 100, 4248-4253	16.4	578
469	Thermodynamic guidelines for the design of bimetallic catalysts for oxygen electroreduction and rapid screening by scanning electrochemical microscopy. M-co (M: Pd, Ag, Au). <i>Journal of the American Chemical Society</i> , 2005 , 127, 357-65	16.4	551
468	Observing single nanoparticle collisions at an ultramicroelectrode by electrocatalytic amplification. <i>Journal of the American Chemical Society</i> , 2007 , 129, 9610-2	16.4	520
467	Improved Photocatalytic Activity and Characterization of Mixed TiO ₂ /SiO ₂ and TiO ₂ /Al ₂ O ₃ Materials. <i>Journal of Physical Chemistry B</i> , 1997 , 101, 2611-2616	3.4	489
466	Scanning electrochemical microscopy. Theory of the feedback mode. <i>Analytical Chemistry</i> , 1989 , 61, 1221-1227	4.71	
465	Visible light driven photoelectrochemical water oxidation on nitrogen-modified TiO ₂ nanowires. <i>Nano Letters</i> , 2012 , 12, 26-32	11.5	464
464	Heterogeneous photocatalytic oxidation of cyanide ion in aqueous solutions at titanium dioxide powder. <i>Journal of the American Chemical Society</i> , 1977 , 99, 303-304	16.4	443
463	Current Rectification at Quartz Nanopipet Electrodes. <i>Analytical Chemistry</i> , 1997 , 69, 4627-4633	7.8	429
462	Amorphous FeOOH oxygen evolution reaction catalyst for photoelectrochemical water splitting. <i>Journal of the American Chemical Society</i> , 2014 , 136, 2843-50	16.4	424
461	Electrogenerated chemiluminescence. 37. Aqueous ecl systems based on tris(2,2'-bipyridine)ruthenium(2+) and oxalate or organic acids. <i>Journal of the American Chemical Society</i> , 1981 , 103, 512-516	16.4	422

460	Electrogenerated chemiluminescence. IX. Electrochemistry and emission from systems containing tris(2,2'-bipyridine)ruthenium(II) dichloride. <i>Journal of the American Chemical Society</i> , 1972 , 94, 2862-2863	16.4	415
459	Electrogenerated chemiluminescence. XIII. Electrochemical and electrogenerated chemiluminescence studies of ruthenium chelates. <i>Journal of the American Chemical Society</i> , 1973 , 95, 6582-6589	16.4	383
458	Semiconductor Electrodes: X . Photoelectrochemical Behavior of Several Polycrystalline Metal Oxide Electrodes in Aqueous Solutions. <i>Journal of the Electrochemical Society</i> , 1977 , 124, 215-224	3.9	374
457	Electrogenerated chemiluminescence. 66. The role of direct coreactant oxidation in the ruthenium tris(2,2')bipyridyl/triisopropylamine system and the effect of halide ions on the emission intensity. <i>Analytical Chemistry</i> , 2000 , 72, 3223-32	7.8	365
456	Electrogenerated Chemiluminescence of CdSe Nanocrystals. <i>Nano Letters</i> , 2002 , 2, 1315-1319	11.5	364
455	Factors in the Metal Doping of 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	3.8	354
454	Current transients in single nanoparticle collision events. <i>Journal of the American Chemical Society</i> , 2008 , 130, 16669-77	16.4	347
453	Pd-Ti and Pd-Co-Au electrocatalysts as a replacement for platinum for oxygen reduction in proton exchange membrane fuel cells. <i>Journal of the American Chemical Society</i> , 2005 , 127, 13100-1	16.4	341
452	Electrochemistry and Electrogenerated Chemiluminescence of CdTe Nanoparticles. <i>Nano Letters</i> , 2004 , 4, 1153-1161	11.5	339
451	Scanning electrochemical microscopy. <i>Annual Review of Analytical Chemistry</i> , 2008 , 1, 95-131	12.5	334
450	Voltammetric studies of the interaction of tris(1,10-phenanthroline)cobalt(III) with DNA. <i>Journal of the American Chemical Society</i> , 1987 , 109, 7528-7530	16.4	309
449	Scanning Electrochemical Microscopy. 31. Application of SECM to the Study of Charge Transfer Processes at the Liquid/Liquid Interface. <i>The Journal of Physical Chemistry</i> , 1995 , 99, 16033-16042		306
448	Heterogeneous photocatalytic synthesis of methane from acetic acid - new Kolbe reaction pathway. <i>Journal of the American Chemical Society</i> , 1978 , 100, 2239-2240	16.4	305
447	Polymer films on electrodes. 4. Nafion-coated electrodes and electrogenerated chemiluminescence of surface-attached tris(2,2'-bipyridine)ruthenium(2+). <i>Journal of the American Chemical Society</i> , 1980 , 102, 6641-6642	16.4	295
446	A silicon-based photocathode for water reduction with an epitaxial SrTiO ₃ protection layer and a nanostructured catalyst. <i>Nature Nanotechnology</i> , 2015 , 10, 84-90	28.7	292
445	Polymer Films on Electrodes: VII . Electrochemical Behavior at Polypyrrole-Coated Platinum and Tantalum Electrodes. <i>Journal of the Electrochemical Society</i> , 1982 , 129, 1009-1015	3.9	280
444	Semiconductor Electrodes: V . The Application of Chemically Vapor Deposited Iron Oxide Films to Photosensitized Electrolysis. <i>Journal of the Electrochemical Society</i> , 1976 , 123, 1024-1026	3.9	276
443	Scanning electrochemical microscopy. 12. Theory and experiment of the feedback mode with finite heterogeneous electron-transfer kinetics and arbitrary substrate size. <i>The Journal of Physical Chemistry</i> , 1992 , 96, 1861-1868		273

442	Electrochemical and Surface Studies of Carbon Dioxide Reduction to Methane and Ethylene at Copper Electrodes in Aqueous Solutions. <i>Journal of the Electrochemical Society</i> , 1989 , 136, 1686-1691	3.9	267
441	Electrogenerated chemiluminescence. 41. Electrogenerated chemiluminescence and chemiluminescence of the Ru(2,21 - bpy) ₃ ²⁺ -S ₂ O ₈ ²⁻ system in acetonitrile-water solutions. <i>Journal of the American Chemical Society</i> , 1982 , 104, 6891-6895	16.4	265
440	Effect of Surface Passivation on the Electrogenerated Chemiluminescence of CdSe/ZnSe Nanocrystals. <i>Nano Letters</i> , 2003 , 3, 1053-1055	11.5	263
439	Thermodynamic Potential for the Anodic Dissolution of n-Type Semiconductors: A Crucial Factor Controlling Durability and Efficiency in Photoelectrochemical Cells and an Important Criterion in the Selection of New Electrode/Electrolyte Systems. <i>Journal of the Electrochemical Society</i> , 1977 , 124, 1706-1710	3.9	257
438	Inner-sphere heterogeneous electrode reactions. Electrocatalysis and photocatalysis: the challenge. <i>Journal of the American Chemical Society</i> , 2010 , 132, 7559-67	16.4	255
437	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, 16783-7	11.5	251
436	Scanning electrochemical microscopy - a new technique for the characterization and modification of surfaces. <i>Accounts of Chemical Research</i> , 1990 , 23, 357-363	24.3	250
435	Thin-film solid-state electroluminescent devices based on tris(2,2'-bipyridine)ruthenium(II) complexes. <i>Journal of the American Chemical Society</i> , 2002 , 124, 6090-8	16.4	236
434	Scanning electrochemical microscopy part 13. Evaluation of the tip shapes of nanometer size microelectrodes. <i>Journal of Electroanalytical Chemistry</i> , 1992 , 328, 47-62	4.1	234
433	Observing iridium oxide (IrO(x)) single nanoparticle collisions at ultramicroelectrodes. <i>Journal of the American Chemical Society</i> , 2010 , 132, 13165-7	16.4	225
432	Electrochemical investigation of the energetics of particulate titanium dioxide photocatalysts. The methyl viologen-acetate system. <i>Journal of the American Chemical Society</i> , 1983 , 105, 27-31	16.4	223
431	Screening of Electrocatalysts for Photoelectrochemical Water Oxidation on W-Doped BiVO ₄ Photocatalysts by Scanning Electrochemical Microscopy. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 12464 ⁸ -12470 ⁹	27	219
430	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
429	Electrostatic electrochemistry at insulators. <i>Nature Materials</i> , 2008 , 7, 505-9	27	214
428	Simple analysis of quasi-reversible steady-state voltammograms. <i>Analytical Chemistry</i> , 1992 , 64, 2293-2302	27	214
427	Kinetic Study of Hydrogen Evolution Reaction over Strained MoS ₂ with Sulfur Vacancies Using Scanning Electrochemical Microscopy. <i>Journal of the American Chemical Society</i> , 2016 , 138, 5123-9	16.4	198
426	Chemiluminescence of Electrogenerated 9,10-Diphenylanthracene Anion Radical ¹ . <i>Journal of the American Chemical Society</i> , 1965 , 87, 139-140	16.4	198
425	Semiconductor electrodes. II. Electrochemistry at n-type titanium dioxide electrodes in acetonitrile solutions. <i>Journal of the American Chemical Society</i> , 1975 , 97, 7427-7433	16.4	194

424	Immobilization and Hybridization of DNA on an Aluminum(III) Alkanebisphosphonate Thin Film with Electrogenerated Chemiluminescent Detection. <i>Journal of the American Chemical Society</i> , 1995 , 117, 2627-2631	16.4	193
423	Photovoltaic effect in symmetrical cells of a liquid crystal porphyrin. <i>The Journal of Physical Chemistry</i> , 1990 , 94, 1586-1598		188
422	Scanning electrochemical and tunneling ultramicroelectrode microscope for high-resolution examination of electrode surfaces in solution. <i>Journal of the American Chemical Society</i> , 1986 , 108, 3838-3839	16.4	188
421	Electron transfer at self-assembled monolayers measured by scanning electrochemical microscopy. <i>Journal of the American Chemical Society</i> , 2004 , 126, 1485-92	16.4	182
420	The Electrochromic Process at WO ₃ Electrodes Prepared by Vacuum Evaporation and Anodic Oxidation of W. <i>Journal of the Electrochemical Society</i> , 1979 , 126, 583-591	3.9	179
419	Use of Atomic Force Microscopy for the Study of Surface Acid-Base Properties of Carboxylic Acid-Terminated Self-Assembled Monolayers. <i>Langmuir</i> , 1997 , 13, 5114-5119	4	178
418	Pd-Co-Mo electrocatalyst for the oxygen reduction reaction in proton exchange membrane fuel cells. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 22909-12	3.4	173
417	Electrogenerated chemiluminescence. 30. Electrochemical oxidation of oxalate ion in the presence of luminescers in acetonitrile solutions. <i>Journal of the American Chemical Society</i> , 1977 , 99, 5399-5403	16.4	173
416	Enhanced photoelectrochemical water oxidation on bismuth vanadate by electrodeposition of amorphous titanium dioxide. <i>Journal of the American Chemical Society</i> , 2014 , 136, 14011-4	16.4	172
415	Electrogenerated chemiluminescence. 67. Dependence of light emission of the tris(2,2')bipyridylruthenium(II)/tripropylamine system on electrode surface hydrophobicity. <i>Analytical Chemistry</i> , 2001 , 73, 3960-4	7.8	171
414	Rapid Screening of BiVO ₄ -Based Photocatalysts by Scanning Electrochemical Microscopy (SECM) and Studies of Their Photoelectrochemical Properties. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 13322-13328	3.8	170
413	Borohydride Oxidation at a Gold Electrode. <i>Journal of the Electrochemical Society</i> , 1992 , 139, 2212-2217	3.9	170
412	Dynamic potential-pH diagrams application to electrocatalysts for water oxidation. <i>Chemical Science</i> , 2012 , 3, 217-229	9.4	169
411	Electrogenerated chemiluminescence. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1991 , 318, 91-99		168
410	Scanning Electrochemical Microscopy and Conductive Probe Atomic Force Microscopy Studies of Hydrogen-Terminated Boron-Doped Diamond Electrodes with Different Doping Levels. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 15117-15127	3.4	166
409	Homogeneous Oxidation of Trialkylamines by Metal Complexes and Its Impact on Electrogenerated Chemiluminescence in the Trialkylamine/Ru(bpy) ₃ ²⁺ System. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 210-216	3.4	163
408	Single Molecule Electrochemistry. <i>Journal of the American Chemical Society</i> , 1996 , 118, 9669-9675	16.4	163
407	Measurement of Double-Layer Forces at the Electrode/Electrolyte Interface Using the Atomic Force Microscope: Potential and Anion Dependent Interactions. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 18808-18817		163

406	Scanning Electrochemical Microscopy: VII . Effect of Heterogeneous Electron-Transfer Rate at the Substrate on the Tip Feedback Current. <i>Journal of the Electrochemical Society</i> , 1991 , 138, 469-474	3.9	162
405	Electrogenerated Chemiluminescence 71. Photophysical, Electrochemical, and Electrogenerated Chemiluminescent Properties of Selected DipyrrometheneBF ₂ Dyes. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 5036-5042	3.4	160
404	Scanning electrochemical microscopy. Apparatus and two-dimensional scans of conductive and insulating substrates. <i>Analytical Chemistry</i> , 1989 , 61, 1794-1799	7.8	158
403	DNA analysis by application of Pt nanoparticle electrochemical amplification with single label response. <i>Journal of the American Chemical Society</i> , 2012 , 134, 10777-9	16.4	154
402	Characterizing emulsions by observation of single droplet collisions--attoliter electrochemical reactors. <i>Journal of the American Chemical Society</i> , 2014 , 136, 4849-52	16.4	150
401	Synthesis, cyclic voltammetric studies, and electrogenerated chemiluminescence of a new donor-acceptor molecule: 3,7-[Bis[4-phenyl-2-quinolyl]]-10-methylphenothiazine. <i>Journal of the American Chemical Society</i> , 2001 , 123, 9112-8	16.4	147
400	Scanning Electrochemical Microscopy. 34. Potential Dependence of the Electron-Transfer Rate and Film Formation at the Liquid/Liquid Interface. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 17881-17888		147
399	Photoelectrosynthesis of ethane from acetate ion at an n-type titanium dioxide electrode. The photo-Kolbe reaction. <i>Journal of the American Chemical Society</i> , 1977 , 99, 7729-7731	16.4	147
398	Enhancement of the Photoluminescence of CdSe Nanocrystals Dispersed in CHCl ₃ by Oxygen Passivation of Surface States. <i>Nano Letters</i> , 2003 , 3, 747-749	11.5	146
397	2,3,7,8,12,13,17,18-Octakis(beta-hydroxyethyl)porphyrin (octaethanolporphyrin) and its liquid crystalline derivatives: synthesis and characterization. <i>Journal of the American Chemical Society</i> , 1989 , 111, 3024-3029	16.4	144
396	In-Situ Imaging of Ionic Crystal Dissolution Using an Integrated Electrochemical/AFM Probe. <i>Journal of the American Chemical Society</i> , 1996 , 118, 6445-6452	16.4	136
395	Semiconductor Electrodes: XI . Behavior of n- and p-Type Single Crystal Semiconductors Covered with Thin Films. <i>Journal of the Electrochemical Society</i> , 1977 , 124, 225-229	3.9	133
394	Stochastic electrochemistry with electrocatalytic nanoparticles at inert ultramicroelectrodes--theory and experiments. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 5394-402	3.6	132
393	Observation of Single-Protein and DNA Macromolecule Collisions on Ultramicroelectrodes. <i>Journal of the American Chemical Society</i> , 2015 , 137, 8376-9	16.4	129
392	Electrochemistry of Single Nanoparticles via Electrocatalytic Amplification. <i>Israel Journal of Chemistry</i> , 2010 , 50, 267-276	3.4	129
391	Polymer Films on Electrodes: XIX . Electrochemical Behavior at Polypyrrole-Nafion and Polypyrrole-Clay Thin Films on Glassy Carbon Electrodes. <i>Journal of the Electrochemical Society</i> , 1986 , 133, 301-304	3.9	129
390	Rapid Screening of Effective Dopants for Fe ₂ O ₃ Photocatalysts with Scanning Electrochemical Microscopy and Investigation of Their Photoelectrochemical Properties. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 6719-6724	3.8	128
389	Polymer Films on Electrodes: XVI . In Situ Ellipsometric Measurements of Polybipyrazine, Polyaniline, and Polyvinylferrocene Films. <i>Journal of the Electrochemical Society</i> , 1985 , 132, 353-359	3.9	128

388	Electrogenerated Chemiluminescence of Ge Nanocrystals. <i>Nano Letters</i> , 2004 , 4, 183-185	11.5	127
387	Long-Range Electron Transfer through a Lipid Monolayer at the Liquid/Liquid Interface. <i>Journal of the American Chemical Society</i> , 1997 , 119, 10785-10792	16.4	126
386	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 Solutions. <i>Journal of Physical Chemistry A</i> , 2003 , 107, 3335-3340	2.8	125
385	Photocurrent enhancement via trapping of photogenerated electrons of titanium dioxide particles. <i>The Journal of Physical Chemistry</i> , 1982 , 86, 3599-3605		125
384	Cyclic voltammetry and scanning electrochemical microscopy of ferrocenemethanol at monolayer and bilayer-modified gold electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2003 , 547, 83-91	4.1	124
383	Self-Assembly of Photoluminescent Copper(I)Dithiol Multilayer Thin Films and Bulk Materials. <i>Langmuir</i> , 1997 , 13, 5602-5607	4	122
382	Electrogenerated chemiluminescence of single conjugated polymer nanoparticles. <i>Journal of the American Chemical Society</i> , 2008 , 130, 8906-7	16.4	122
381	Electrogenerated chemiluminescent determination of Ru(bpy) ₃ (2+) at low levels. <i>Analytical Chemistry</i> , 1984 , 56, 2413-7	7.8	122
380	Monitoring the electrophoretic migration and adsorption of single insulating nanoparticles at ultramicroelectrodes. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 4371-80	3.4	121
379	Charging and discharging of single conjugated-polymer nanoparticles. <i>Nature Materials</i> , 2007 , 6, 680-5	27	121
378	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, 18255-60	11.5	120
377	Interrogation of surfaces for the quantification of adsorbed species on electrodes: oxygen on gold and platinum in neutral media. <i>Journal of the American Chemical Society</i> , 2008 , 130, 16985-95	16.4	117
376	Tunneling ultramicroelectrode: nanoelectrodes and nanoparticle collisions. <i>Journal of the American Chemical Society</i> , 2014 , 136, 8173-6	16.4	116
375	Scanning electrochemical microscopy. 47. Imaging electrocatalytic activity for oxygen reduction in an acidic medium by the tip generation-substrate collection mode. <i>Analytical Chemistry</i> , 2003 , 75, 2967-74 ⁸	7.8	116
374	Single Nanoparticle Electrocatalysis: Effect of Monolayers on Particle and Electrode on Electron Transfer. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 14978-14982	3.8	114
373	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. <i>Analytical Chemistry</i> , 2008 , 80, 3254-60	7.8	113
372	Chemical, Electrochemical, Gravimetric, and Microscopic Studies on Antimicrobial Silver Films. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 279-287	3.4	112
371	Solution Viscosity Effects on the Heterogeneous Electron Transfer Kinetics of Ferrocenemethanol in Dimethyl Sulfoxide/Water Mixtures. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 1392-1398	3.4	112

370	Electrochemical Detection of Single Molecules. <i>Accounts of Chemical Research</i> , 1996 , 29, 572-578	24.3	112
369	A Study of Excimer Emission in Solutions of Poly(9,9-dioctylfluorene) Using Electrogenerated Chemiluminescence. <i>Journal of Physical Chemistry A</i> , 2001 , 105, 520-523	2.8	111
368	Scanning electrochemical microscopy. <i>Journal of Electroanalytical Chemistry</i> , 2000 , 491, 22-29	4.1	110
367	Fabrication and characterization of self-assembled spherical gold ultramicroelectrodes. <i>Analytical Chemistry</i> , 1997 , 69, 2323-8	7.8	109
366	Single-molecule spectroelectrochemistry (SMS-EC). <i>Journal of the American Chemical Society</i> , 2006 , 128, 9028-9	16.4	109
365	Semiconductor Electrodes: I. The Chemical Vapor Deposition and Application of Polycrystalline N-Type Titanium Dioxide Electrodes to the Photosensitized Electrolysis of Water. <i>Journal of the Electrochemical Society</i> , 1975 , 122, 739-742	3.9	109
364	Mechanoelectrochemical catalysis of the effect of elastic strain on a platinum nanofilm for the ORR exerted by a shape memory alloy substrate. <i>Journal of the American Chemical Society</i> , 2015 , 137, 7397-403	16.4	108
363	Chemically imaging living cells by scanning electrochemical microscopy. <i>Biosensors and Bioelectronics</i> , 2006 , 22, 461-72	11.8	108
362	Electrochemical detection of a single cytomegalovirus at an ultramicroelectrode and its antibody anchoring. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 5303-8	11.5	107
361	Scanning Electrochemistry Microscopy (SECM) in the Study of Electron Transfer Kinetics at Liquid/Liquid Interfaces: Beyond the Constant Composition Approximation. <i>Journal of Physical Chemistry B</i> , 1999 , 103, 7260-7269	3.4	107
360	Formation of monolayer pits of controlled nanometer size on highly oriented pyrolytic graphite by gasification reactions as studied by scanning tunneling microscopy. <i>Journal of the American Chemical Society</i> , 1990 , 112, 4598-4599	16.4	107
359	Electrochemical behavior and electrogenerated chemiluminescence of star-shaped D-A compounds with a 1,3,5-triazine core and substituted fluorene arms. <i>Journal of the American Chemical Society</i> , 2010 , 132, 10944-52	16.4	106
358	Screening of photocatalysts by scanning electrochemical microscopy. <i>Analytical Chemistry</i> , 2008 , 80, 7445-50	7.8	106
357	Photoelectrochemical Characterization of CuInSe ₂ and Cu(In _{1-x} Ga _x)Se ₂ Thin Films for Solar Cells. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 234-240	3.8	105
356	Scanning electrochemical microscopy. 16. Study of second-order homogeneous chemical reactions via the feedback and generation/collection modes. <i>The Journal of Physical Chemistry</i> , 1992 , 96, 4917-4924		105
355	Electrochemical and Scanning Tunneling Microscopic Study of Dealloying of Cu ₃ Au. <i>Journal of the Electrochemical Society</i> , 1991 , 138, 3224-3235	3.9	104
354	Characterization of particulate titanium dioxide photocatalysts by photoelectrophoretic and electrochemical measurements. <i>Journal of the American Chemical Society</i> , 1981 , 103, 3456-3459	16.4	102
353	Observation of Discrete Au Nanoparticle Collisions by Electrocatalytic Amplification Using Pt Ultramicroelectrode Surface Modification. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 2671-2674	6.4	101

352	An Electrochemical Coulomb Staircase: Detection of Single Electron-Transfer Events at Nanometer Electrodes. <i>Science</i> , 1997 , 277, 1791-1793	33.3	101
351	Characterization and Surface Charge Measurement of Self-Assembled CdS Nanoparticle Films. <i>Chemistry of Materials</i> , 1998 , 10, 1160-1165	9.6	99
350	Electrochromism at Niobium Pentoxide Electrodes in Aqueous and Acetonitrile Solutions. <i>Journal of the Electrochemical Society</i> , 1980 , 127, 241-242	3.9	99
349	ZnWO ₄ /WO ₃ Composite for Improving Photoelectrochemical Water Oxidation. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 15901-15910	3.8	98
348	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, 13212-5	16.4	98
347	Electrochemistry of a single attoliter emulsion droplet in collisions. <i>Journal of the American Chemical Society</i> , 2015 , 137, 2343-9	16.4	97
346	High-Brightness and Low-Voltage Light-Emitting Devices Based on Trischelated Ruthenium(II) and Tris(2,2'Ebipyridine)osmium(II) Emitter Layers and Low Melting Point Alloy Cathode Contacts. <i>Chemistry of Materials</i> , 2002 , 14, 3465-3470	9.6	97
345	Electrocatalytic Activity of Individual Pt Nanoparticles Studied by Nanoscale Scanning Electrochemical Microscopy. <i>Journal of the American Chemical Society</i> , 2016 , 138, 8560-8	16.4	95
344	Simultaneous detection of single attoliter droplet collisions by electrochemical and electrogenerated chemiluminescent responses. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 11859-62	16.4	95
343	Development of a Potential Fe ₂ O ₃ -Based Photocatalyst Thin Film for Water Oxidation by Scanning Electrochemical Microscopy: Effects of AgBe ₂ O ₃ Nanocomposite and Sn Doping. <i>Chemistry of Materials</i> , 2009 , 21, 4803-4810	9.6	95
342	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. <i>The Journal of Physical Chemistry</i> , 1992 , 96, 5035-5045		95
341	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, 5492-9	16.4	94
340	Scanning Electrochemical Microscopy: The Application of the Feedback Mode for High Resolution Copper Etching. <i>Journal of the Electrochemical Society</i> , 1989 , 136, 3143-3144	3.9	94
339	Integrated chemical systems: photocatalysis at semiconductors incorporated into polymer (Nafion)/mediator systems. <i>Journal of the American Chemical Society</i> , 1983 , 105, 7002-7003	16.4	94
338	Surface interrogation of CoP(i) water oxidation catalyst by scanning electrochemical microscopy. <i>Journal of the American Chemical Society</i> , 2015 , 137, 612-5	16.4	93
337	Studies of charge transfer at liquid liquid interfaces and bilayer lipid membranes by scanning electrochemical microscopy. <i>Journal of Electroanalytical Chemistry</i> , 2000 , 483, 7-17	4.1	93
336	Electrochemical Detection of Single Phospholipid Vesicle Collisions at a Pt Ultramicroelectrode. <i>Langmuir</i> , 2015 , 31, 11734-9	4	91
335	Scanning electrochemical microscopy. 40. Voltammetric ion-selective micropipet electrodes for probing ion transfer at bilayer lipid membranes. <i>Analytical Chemistry</i> , 2000 , 72, 4940-8	7.8	91

- 334 Kinetics of Heterogeneous Electron Transfer at Liquid/Liquid Interfaces As Studied by SECM. *Journal of Physical Chemistry B*, **2001**, 105, 6367-6374 3.4 91
- 333 Dibenzotetraphenylperiflanthene: Synthesis, Photophysical Properties, and Electrogenerated Chemiluminescence. *Journal of the American Chemical Society*, **1996**, 118, 2374-2379 16.4 91
- 332 Electrogenerated chemiluminescence. I. Mechanism of anthracene chemiluminescence in N,N-dimethylformamide solution. *Journal of the American Chemical Society*, **1968**, 90, 6284-6290 16.4 90
- 331 High Resolution Etching of Semiconductors by the Feedback Mode of the Scanning Electrochemical Microscope. *Journal of the Electrochemical Society*, **1990**, 137, 2468-2472 3.9 89
- 330 Scanning electrochemical microscopy of menadione-glutathione conjugate export from yeast cells. *Proceedings of the National Academy of Sciences of the United States of America*, **2004**, 101, 7862-7 11.5 88
- 329 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
- 328 Metal Doping of BiVO₄ by Composite Electrodeposition with Improved Photoelectrochemical Water Oxidation. *Journal of Physical Chemistry C*, **2013**, 117, 23048-23056 3.8 87
- 327 Photoelectrochemistry of Films of Quantum Size Lead Sulfide Particles Incorporated in Self-Assembled Monolayers on Gold. *Journal of Physical Chemistry B*, **1997**, 101, 5707-5711 3.4 87
- 326 Scanning electrochemical microscopy. 48. Hg/Pt hemispherical ultramicroelectrodes: fabrication and characterization. *Analytical Chemistry*, **2003**, 75, 3880-9 7.8 86
- 325 Plastic Electrochromic Devices: Electrochemical Characterization and Device Properties of a Phenothiazine-Phenylquinoline Donor/Acceptor Polymer. *Chemistry of Materials*, **2003**, 15, 1264-1272 9.6 86
- 324 Electrochemistry and Electrogenerated Chemiluminescence of Semiconductor Nanocrystals in Solutions and in Films 1-57 85
- 323 Scanning Electrochemical Microscopy. 37. Light Emission by Electrogenerated Chemiluminescence at SECM Tips and Their Application to Scanning Optical Microscopy. *Analytical Chemistry*, **1998**, 70, 2941-2948 7.8 85
- 322 Electrogenerated Chemiluminescence. 65. An Investigation of the Oxidation of Oxalate by Tris(polypyridine) Ruthenium Complexes and the Effect of the Electrochemical Steps on the Emission Intensity. *Journal of Physical Chemistry B*, **1999**, 103, 10469-10480 3.4 85
- 321 Metal/polypyrrole quasi-reference electrode for voltammetry in nonaqueous and aqueous solutions. *Analytical Chemistry*, **2006**, 78, 6868-72 7.8 83
- 320 Menadione metabolism to thiodione in hepatoblastoma by scanning electrochemical microscopy. *Proceedings of the National Academy of Sciences of the United States of America*, **2004**, 101, 17582-7 11.5 83
- 319 Electrogenerated chemiluminescence. VI. Efficiency and mechanisms of 9,10-diphenylanthracene, rubrene, and pyrene systems at a rotating-ring-disk electrode. *Journal of the American Chemical Society*, **1971**, 93, 5968-5981 16.4 83
- 318 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
- 317 Scanning optical microscopy with an electrogenerated chemiluminescent light source at a nanometer tip. *Analytical Chemistry*, **2001**, 73, 2153-6 7.8 81

316	Semiconductor Electrodes: XXIX . High Efficiency Photoelectrochemical Solar Cells with Electrodes in an Aqueous Iodide Medium. <i>Journal of the Electrochemical Society</i> , 1980 , 127, 518-520	3.9	80
315	Electrogenerated chemiluminescence of common organic luminophores in water using an emulsion system. <i>Journal of the American Chemical Society</i> , 2014 , 136, 13546-9	16.4	79
314	Electrodeposition of Isolated Platinum Atoms and Clusters on Bismuth-Characterization and Electrocatalysis. <i>Journal of the American Chemical Society</i> , 2017 , 139, 17677-17682	16.4	79
313	Solution Redox Couples for Electrochemical Energy Storage: I . Iron (III)-Iron (II) Complexes with O-Phenanthroline and Related Ligands. <i>Journal of the Electrochemical Society</i> , 1981 , 128, 1460-1467	3.9	79
312	High-Performance Photodetectors Based on Solution-Processed Epitaxial Grown Hybrid Halide Perovskites. <i>Nano Letters</i> , 2018 , 18, 994-1000	11.5	77
311	Observing single nanoparticle collisions by electrogenerated chemiluminescence amplification. <i>Nano Letters</i> , 2008 , 8, 1746-9	11.5	77
310	A New Approach to the High Resolution Electrodeposition of Metals via the Feedback Mode of the Scanning Electrochemical Microscope. <i>Journal of the Electrochemical Society</i> , 1990 , 137, 1079-1086	3.9	77
309	A Digital Simulation Model for Electrochromic Processes at WO ₃ Electrodes. <i>Journal of the Electrochemical Society</i> , 1980 , 127, 647-654	3.9	77
308	Semiconductor Electrodes: XIV . Electrochemistry and Electroluminescence at n-Type in Aqueous Solutions. <i>Journal of the Electrochemical Society</i> , 1978 , 125, 246-252	3.9	77
307	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	16.4	75
306	Characterization of Adsorption of Sodium Dodecyl Sulfate on Charge-Regulated Substrates by Atomic Force Microscopy Force Measurements. <i>Langmuir</i> , 1997 , 13, 5418-5425	4	75
305	Photoinduced Reaction at TiO ₂ Particles. Photodeposition from NiII Solutions with Oxalate. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 18123-18127		75
304	Semiconductor electrodes. 40. Photoassisted hydrogen evolution at poly(benzyl viologen)-coated p-type silicon electrodes. <i>Journal of the American Chemical Society</i> , 1981 , 103, 6898-6901	16.4	75
303	High Resolution Deposition of Polyaniline on Pt with the Scanning Electrochemical Microscope. <i>Journal of the Electrochemical Society</i> , 1989 , 136, 885-886	3.9	74
302	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	16.4	73
301	Green electrogenerated chemiluminescence of highly fluorescent benzothiadiazole and fluorene derivatives. <i>Journal of the American Chemical Society</i> , 2009 , 131, 10733-41	16.4	72
300	Electrocatalytic activity of Pd-Co bimetallic mixtures for formic acid oxidation studied by scanning electrochemical microscopy. <i>Analytical Chemistry</i> , 2009 , 81, 7003-8	7.8	72
299	Voltammetric and Scanning Electrochemical Microscopic Studies of the Adsorption Kinetics and Self-Assembly of n-Alkanethiol Monolayers on Gold. <i>Israel Journal of Chemistry</i> , 1997 , 37, 155-163	3.4	72

298	Voltammetric and Coulometric Studies of the Mechanism of Electrohydrodimerization of Diethyl Fumarate in Dimethylformamide Solutions. <i>Journal of the Electrochemical Society</i> , 1971 , 118, 874	3.9	72
297	Synthesis, electrochemistry, and electrogenerated chemiluminescence of two BODIPY-appended bipyridine homologues. <i>Journal of the American Chemical Society</i> , 2013 , 135, 13558-66	16.4	71
296	Rapid Screening by Scanning Electrochemical Microscopy (SECM) of Dopants for Bi ₂ WO ₆ Improved Photocatalytic Water Oxidation with Zn Doping. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 9633-9640	3.8	71
295	Scanning electrochemical microscopy. 41. Theory and characterization of ring electrodes. <i>Analytical Chemistry</i> , 2001 , 73, 2261-7	7.8	71
294	Optoelectronic Properties and Memories Based on Organic Single-Crystal Thin Films. <i>Accounts of Chemical Research</i> , 1999 , 32, 235-245	24.3	71
293	High Resolution Photoelectrochemical Etching of n - GaAs with the Scanning Electrochemical and Tunneling Microscope. <i>Journal of the Electrochemical Society</i> , 1987 , 134, 1038-1039	3.9	70
292	Scanning electrochemical microscopy at the nanometer level. <i>Chemical Communications</i> , 2018 , 54, 1934-1947	3.9	69
291	Electropolymerization of Acenaphtho[1,2-k]fluoranthene Derivatives: Formation of a New Conductive Electroactive Electrochromic Hydrocarbon Ladder Polymer. <i>Journal of the American Chemical Society</i> , 1998 , 120, 2476-2477	16.4	69
290	Improved photoelectrochemical water oxidation by the WO ₃ /CuWO ₄ composite with a manganese phosphate electrocatalyst. <i>Langmuir</i> , 2015 , 31, 10897-903	4	68
289	Screening of oxygen evolution electrocatalysts by scanning electrochemical microscopy using a shielded tip approach. <i>Analytical Chemistry</i> , 2008 , 80, 4055-64	7.8	68
288	Monitoring DNA immobilization and hybridization on surfaces by atomic force microscopy force measurements. <i>Analytical Chemistry</i> , 2001 , 73, 2207-12	7.8	68
287	Scanning Electrochemical Microscopy. 45. Study of the Kinetics of Oxygen Reduction on Platinum with Potential Programming of the Tip. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 12801-12806	3.4	68
286	Semiconductor electrodes. 48. Photooxidation of halides and water on n-silicon protected with silicide layers. <i>Journal of the American Chemical Society</i> , 1983 , 105, 220-224	16.4	68
285	Electrogenerated Chemiluminescence: XXIII . On the Operation and Lifetime of ECL Devices. <i>Journal of the Electrochemical Society</i> , 1975 , 122, 632-640	3.9	68
284	Characterization and theory of electrocatalysts based on scanning electrochemical microscopy screening methods. <i>Langmuir</i> , 2006 , 22, 10426-31	4	67
283	Electrogenerated Chemiluminescence. 76. Excited Singlet State Emission vs Excimer Emission in Ter(9,9-diarylfluorene)s. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 14407-14413	3.4	67
282	In-Situ Regrowth and Purification by Zone Melting of Organic Single-Crystal Thin Films Yielding Significantly Enhanced Optoelectronic Properties. <i>Chemistry of Materials</i> , 2000 , 12, 2353-2362	9.6	67
281	Cyclic Voltammetric and Scanning Electrochemical Microscopic Study of Menadione Permeability through a Self-Assembled Monolayer on a Gold Electrode. <i>Langmuir</i> , 2002 , 18, 8134-8141	4	66

280	Semiconductor Electrodes XV. Photoelectrochemical Cells with Mixed Polycrystalline n-Type CdS - CdSe Electrodes. <i>Journal of the Electrochemical Society</i> , 1978 , 125, 375-379	3.9	66
279	Electrodeposition of Si from organic solvents and studies related to initial stages of Si growth. <i>Electrochimica Acta</i> , 2010 , 55, 3797-3803	6.7	65
278	Electrochemistry and electrogenerated chemiluminescence of 3,6-di(spirobifluorene)-N-phenylcarbazole. <i>Journal of the American Chemical Society</i> , 2008 , 130, 634-9	16.4	65
277	In Situ Monitoring of Kinetics of Charged Thiol Adsorption on Gold Using an Atomic Force Microscope. <i>Langmuir</i> , 1998 , 14, 4790-4794	4	65
276	High Resolution Deposition of Silver in Nafion Films with the Scanning Tunneling Microscope. <i>Journal of the Electrochemical Society</i> , 1988 , 135, 785-786	3.9	65
275	Factors influencing product distribution in photocatalytic decomposition of aqueous acetic acid on platinumized titania. <i>The Journal of Physical Chemistry</i> , 1983 , 87, 1417-1422		65
274	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, 6403-8	11.5	65
273	Hydroquinone as a buffer additive for suppression of bubbles formed by electrochemical oxidation of the CE buffer at the outlet electrode in capillary electrophoresis/electrospray ionization-mass spectrometry. <i>Analytical Chemistry</i> , 1999 , 71, 1658-61	7.8	64
272	Generation and detection of single metal nanoparticles using scanning electrochemical microscopy techniques. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 25279-87	3.4	63
271	The Application of Scanning Tunneling Microscopy to In Situ Studies of Nickel Electrodes under Potential Control. <i>Journal of the Electrochemical Society</i> , 1988 , 135, 783-784	3.9	63
270	Semiconductor Electrodes: XXII . Electrochromism and Photoelectrochemistry at Layers Prepared by Thermal and Anodic Oxidation of W. <i>Journal of the Electrochemical Society</i> , 1979 , 126, 2133-2139	3.9	63
269	Detection of CO in the Electrochemical Reduction of Carbon Dioxide in N,N-Dimethylformamide by Scanning Electrochemical Microscopy. <i>Journal of the American Chemical Society</i> , 2017 , 139, 18552-18557	16.4	62
268	Efficient and stable blue electrogenerated chemiluminescence of fluorene-substituted aromatic hydrocarbons. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 9300-3	16.4	62
267	Scanning electrochemical microscopy. 59. Effect of defects and structure on electron transfer through self-assembled monolayers. <i>Langmuir</i> , 2008 , 24, 2841-9	4	62
266	Electrogenerated chemiluminescence. 81. Influence of donor and acceptor substituents on the ECL of a spirobifluorene-bridged bipolar system. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 3984-9	3.4	62
265	Electrochemistry at a Metal Nanoparticle on a Tunneling Film: A Steady-State Model of Current Densities at a Tunneling Ultramicroelectrode. <i>Journal of the American Chemical Society</i> , 2015 , 137, 11321-6	16.4	61
264	Advanced Electrochemistry of Individual Metal Clusters Electrodeposited Atom by Atom to Nanometer by Nanometer. <i>Accounts of Chemical Research</i> , 2016 , 49, 2587-2595	24.3	61
263	Scanning Electrochemical Microscopy. 33. Application to the Study of ECE/DISP Reactions. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 14137-14143		61

262	Reversible Charge Trapping/Detrapping in a Photoconductive Insulator of Liquid Crystal Zinc Porphyrin. <i>Chemistry of Materials</i> , 1997 , 9, 1422-1429	9.6	61
261	Scanning electrochemical microscopy. 38. Application of SECM to the study of charge transfer through bilayer lipid membranes. <i>Analytical Chemistry</i> , 1999 , 71, 4300-5	7.8	61
260	Electrodeposition of crystalline and photoactive silicon directly from silicon dioxide nanoparticles in molten CaCl ₂ . <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 12740-4	16.4	60
259	Spontaneous formation and electrogenerated chemiluminescence of tris(bipyridine) Ru(II) derivative nanobelts. <i>Journal of the American Chemical Society</i> , 2008 , 130, 7196-7	16.4	60
258	Electrogenerated chemiluminescence. IV. Magnetic field effects on the electrogenerated chemiluminescence of some anthracenes. <i>Journal of the American Chemical Society</i> , 1969 , 91, 209-210	16.4	60
257	Synthesis and characterization of a p-type boron arsenide photoelectrode. <i>Journal of the American Chemical Society</i> , 2012 , 134, 11056-9	16.4	59
256	Scanning electrochemical microscopy: surface interrogation of adsorbed hydrogen and the open circuit catalytic decomposition of formic acid at platinum. <i>Journal of the American Chemical Society</i> , 2010 , 132, 5121-9	16.4	59
255	Electrogenerated Chemiluminescence of Aromatic Hydrocarbon Nanoparticles in an Aqueous Solution. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 11575-11578	3.8	59
254	Reverse (Uphill) Electron Transfer at the Liquid/Liquid Interface. <i>The Journal of Physical Chemistry</i> , 1995 , 99, 17487-17489		59
253	Electrochemistry in liquid sulfur dioxide. 1. Oxidation of thianthrene, phenothiazine, and 9,10-diphenylanthracene. <i>Journal of the American Chemical Society</i> , 1979 , 101, 2316-2319	16.4	59
252	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. <i>Journal of the American Chemical Society</i> , 2010 , 132, 13453-61	16.4	58
251	Optimization of "wired" enzyme O ₂ -electroreduction catalyst compositions by scanning electrochemical microscopy. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 6355-7	16.4	58
250	Photoactivity of ternary lead-group IVB oxides for hydrogen and oxygen evolution. <i>Catalysis Letters</i> , 1990 , 5, 61-66	2.8	58
249	Probing Ion Transfer across Liquid-Liquid Interfaces by Monitoring Collisions of Single Femtoliter Oil Droplets on Ultramicroelectrodes. <i>Analytical Chemistry</i> , 2016 , 88, 7754-61	7.8	57
248	Rapid Screening of Bimetallic Electrocatalysts for Oxygen Reduction in Acidic Media by Scanning Electrochemical Microscopy. <i>Journal of the Electrochemical Society</i> , 2006 , 153, E99	3.9	57
247	Polymer Films on Electrodes. 25. Effect of Polymer Resistance on the Electrochemistry of Poly(vinylferrocene): Scanning Electrochemical Microscopic, Chronoamperometric, and Cyclic Voltammetric Studies. <i>The Journal of Physical Chemistry</i> , 1994 , 98, 1475-1481		56
246	Analyzing Benzene and Cyclohexane Emulsion Droplet Collisions on Ultramicroelectrodes. <i>Analytical Chemistry</i> , 2015 , 87, 11013-21	7.8	54
245	Effect of Structural Variation on Photocurrent Efficiency in Alkyl-Substituted Porphyrin Solid-State Thin Layer Photocells. <i>Chemistry of Materials</i> , 1998 , 10, 1771-1776	9.6	54

244	High-resolution deposition and etching of metals with a scanning electrochemical microscope. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 1988 , 6, 1873		54
243	Formation of a silicon layer by electroreduction of SiO ₂ nanoparticles in CaCl ₂ molten salt. <i>Electrochimica Acta</i> , 2012 , 65, 57-63	6.7	53
242	Unbiased photoelectrochemical water splitting in Z-scheme device using W/Mo-doped BiVO ₄ and Zn(x)Cd(1-x)Se. <i>ChemPhysChem</i> , 2013 , 14, 2277-87	3.2	53
241	Heterogeneous photosynthetic production of amino acids at platinum/titanium dioxide suspensions by near ultraviolet light. <i>Journal of the American Chemical Society</i> , 1981 , 103, 6893-6897	16.4	53
240	Single Collision Events of Conductive Nanoparticles Driven by Migration. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 6651-6657	3.8	52
239	Semiconductor Electrodes: LX . Photoelectrochemistry of and in Aqueous Solutions. <i>Journal of the Electrochemical Society</i> , 1986 , 133, 358-361	3.9	52
238	Scanning Electrochemical Microscopy: X . High Resolution Imaging of Active Sites on an Electrode Surface. <i>Journal of the Electrochemical Society</i> , 1991 , 138, L4-L6	3.9	51
237	Semiconductor Electrodes: XLI . Improvement of Performance of Electrodes by Electrochemical Polymerization of o-Phenylenediamine at Surface Imperfections. <i>Journal of the Electrochemical Society</i> , 1982 , 129, 265-271	3.9	51
236	Electrodeposition of Single Nanometer-Size Pt Nanoparticles at a Tunneling Ultramicroelectrode and Determination of Fast Heterogeneous Kinetics for Ru(NH ₃) ₆ (3+) Reduction. <i>Journal of the American Chemical Society</i> , 2016 , 138, 975-9	16.4	50
235	Localized dielectric breakdown and antireflection coating in metal-oxide-semiconductor photoelectrodes. <i>Nature Materials</i> , 2017 , 16, 127-131	27	50
234	Bipolar titanium dioxide/platinum semiconductor photoelectrodes and multielectrode arrays for unassisted photolytic water splitting. <i>The Journal of Physical Chemistry</i> , 1986 , 90, 4604-4607		49
233	Semiconductor Electrodes: XXXVII . Photoelectrochemical Behavior of p-Type in Acetonitrile Solutions. <i>Journal of the Electrochemical Society</i> , 1981 , 128, 2158-2164	3.9	49
232	Toward single enzyme molecule electrochemistry. <i>ACS Nano</i> , 2008 , 2, 2437-40	16.7	48
231	Scanning electrochemical microscopy: theory and characterization of electrodes of finite conical geometry. <i>Analytical Chemistry</i> , 2004 , 76, 3646-54	7.8	48
230	Direct Atomic Force Microscopic Determination of Surface Charge at the Gold/Electrolyte Interface The Inadequacy of Classical GCS Theory in Describing the Double-Layer Charge Distribution. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 5217-5222	3.4	48
229	Scanning Electrochemical Microscopy Studies of Electron Transfer through Monolayers Containing Conjugated Species at the Liquid-Liquid Interface. <i>Langmuir</i> , 1998 , 14, 2774-2779	4	48
228	Electrogenerated Chemiluminescence: XXXVI . The Production of Steady Direct Current ECL in Thin Layer and Flow Cells. <i>Journal of the Electrochemical Society</i> , 1980 , 127, 104-110	3.9	48
227	Semiconductor Electrodes: XXXVI . Characteristics of , Electrodes in Aqueous Solution. <i>Journal of the Electrochemical Society</i> , 1981 , 128, 945-952	3.9	48

226	Open circuit (mixed) potential changes upon contact between different inert electrodes-size and kinetic effects. <i>Analytical Chemistry</i> , 2013 , 85, 964-70	7.8	47
225	In Situ Scanning Tunneling Microscopy of Polycrystalline Platinum Electrodes under Potential Control: Copper Electrodeposition and Pyrrole Electropolymerization. <i>Journal of the Electrochemical Society</i> , 1989 , 136, 3216-3222	3.9	47
224	Time of first arrival in electrochemical collision experiments as a measure of ultralow concentrations of analytes in solution. <i>Analytical Chemistry</i> , 2015 , 87, 4341-6	7.8	46
223	Recognizing Single Collisions of PtCl ₆ (2-) at Femtomolar Concentrations on Ultramicroelectrodes by Nucleating Electrocatalytic Clusters. <i>Journal of the American Chemical Society</i> , 2015 , 137, 13752-5	16.4	46
222	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. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 18645-18655	3.8	46
221	Electrochemistry in Near-Critical and Supercritical Fluids. 9. Improved Apparatus for Water Systems (23885 °C). The Oxidation of Hydroquinone and Iodide. <i>Journal of Physical Chemistry B</i> , 1997 , 101, 1180-1185	3.4	45
220	Electrochemistry, spectroscopy, and electrogenerated chemiluminescence of some star-shaped truxene-oligofluorene compounds. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 6612-9	3.4	45
219	Scanning Electrochemical Microscopy. 30. Application of Glass Micropipet Tips and Electron Transfer at the Interface between Two Immiscible Electrolyte Solutions for SECM Imaging. <i>Analytical Chemistry</i> , 1995 , 67, 2787-2790	7.8	45
218	The Application of Nb ₂ O ₅ as a Cathode in Nonaqueous Lithium Cells. <i>Journal of the Electrochemical Society</i> , 1981 , 128, 344-346	3.9	45
217	Electrogenerated chemiluminescence. III. Intensity-time and concentration-intensity relation and the lifetime of radical cations of aromatic hydrocarbons in N,N-dimethylformamide solution. <i>Journal of the American Chemical Society</i> , 1969 , 91, 267-275	16.4	45
216	Evaluation of the Effect of Secondary Reactions in Controlled Potential Coulometry. <i>The Journal of Physical Chemistry</i> , 1959 , 63, 1057-1062		45
215	Scanning electrochemical microscopy of HeLa cells [Effects of ferrocene methanol and silver ion. <i>Journal of Electroanalytical Chemistry</i> , 2009 , 628, 35-42	4.1	44
214	Direct Measurement of Diffuse Double-Layer Forces at the Semiconductor/Electrolyte Interface Using an Atomic Force Microscope. <i>Journal of Physical Chemistry B</i> , 1997 , 101, 8298-8303	3.4	44
213	Pronounced pressure effects on reversible electrode reactions in supercritical water. <i>The Journal of Physical Chemistry</i> , 1989 , 93, 4234-4242		44
212	Semiconductor Electrodes: XXXV . Slurry Electrodes Based on Semiconductor Powder Suspensions. <i>Journal of the Electrochemical Society</i> , 1981 , 128, 222-224	3.9	44
211	Application of a novel thermistor mercury electrode to the study of changes of activity of an adsorbed enzyme on electrochemical reduction and oxidation. <i>Journal of the American Chemical Society</i> , 1977 , 99, 274-6	16.4	44
210	High-Speed Multipass Coulter Counter with Ultrahigh Resolution. <i>ACS Nano</i> , 2015 , 9, 12274-82	16.7	43
209	Electrogenerated chemiluminescence. 57. Emission from sodium 9,10-diphenylanthracene-2-sulfonate, thianthrenecarboxylic acids, and chlorpromazine in aqueous media. <i>Analytical Chemistry</i> , 1995 , 67, 3140-3147	7.8	43

208	Semiconductor Electrodes: XVIII . Liquid Junction Photovoltaic Cells Based on Electrodes and Acetonitrile Solutions. <i>Journal of the Electrochemical Society</i> , 1979 , 126, 603-608	3.9	43
207	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	11.5	42
206	Detection of the short-lived cation radical intermediate in the electrochemical oxidation of N,N-dimethylaniline by scanning electrochemical microscopy. <i>Journal of the American Chemical Society</i> , 2014 , 136, 18163-9	16.4	42
205	Electrochemical studies of guanosine in DMF and detection of its radical cation in a scanning electrochemical microscopy nanogap experiment. <i>Journal of the American Chemical Society</i> , 2005 , 127, 3690-1	16.4	42
204	Hydrocarbon Cation Radical Formation by Reduction of Peroxydisulfate. <i>Journal of the American Chemical Society</i> , 2000 , 122, 4996-4997	16.4	42
203	Electron-Transfer Reactions on Passive Chromium. <i>Journal of the Electrochemical Society</i> , 1992 , 139, 3158-3167	3.9	42
202	Polymer Films on Electrodes: XI . Electrochemical Behavior of Polymer Electrodes Produced by Incorporation of Tetrathiafulvalenium in a Polyelectrolyte (Nafion) Matrix. <i>Journal of the Electrochemical Society</i> , 1983 , 130, 613-621	3.9	42
201	The Electroreduction of Quaternary Ammonium Compounds. <i>Journal of the American Chemical Society</i> , 1963 , 85, 421-425	16.4	42
200	Optimization of PbI ₂ /MAPbI ₃ Perovskite Composites by Scanning Electrochemical Microscopy. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 19890-19895	3.8	42
199	A Liquid Junction Photoelectrochemical Solar Cell Based on p-Type MeNH ₃ PbI ₃ Perovskite with 1.05 V Open-Circuit Photovoltage. <i>Journal of the American Chemical Society</i> , 2015 , 137, 14758-64	16.4	41
198	Scanning electrochemical microscopy. 58. Application of a micropipet-supported ITIES tip to detect Ag ⁺ and study its effect on fibroblast cells. <i>Analytical Chemistry</i> , 2007 , 79, 5225-31	7.8	41
197	Scanning Electrochemical Microscopy. 42. Studies of the Kinetics and Photoelectrochemistry of Thin Film CdS/Electrolyte Interfaces. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 8192-8195	3.4	41
196	Polymer Films on Electrodes. 28. Scanning Electrochemical Microscopy Study of Electron Transfer at Poly(alkylterthiophene) Films. <i>Chemistry of Materials</i> , 1998 , 10, 2120-2126	9.6	41
195	Inverted Region Electron Transfer Demonstrated by Electrogenenerated Chemiluminescence at the Liquid/Liquid Interface. <i>Journal of Physical Chemistry B</i> , 1999 , 103, 6272-6276	3.4	41
194	Detection of the electrohydrodimerization intermediate acrylonitrile radical anion by scanning electrochemical microscopy. <i>Journal of the American Chemical Society</i> , 1994 , 116, 393-394	16.4	41
193	Evidence for Faradaic Processes in Scanning Probe Microscopy on Mica in Humid Air. <i>Journal of Physical Chemistry B</i> , 1997 , 101, 10876-10879	3.4	40
192	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	16.4	39
191	Electrochemical Formation of a p-n Junction on Thin Film Silicon Deposited in Molten Salt. <i>Journal of the American Chemical Society</i> , 2017 , 139, 16060-16063	16.4	39

190	Electrochemistry and electrogenerated chemiluminescence of stacked poly(fluorene-methylene) oligomers. Multiple, interacting electron transfers. <i>Journal of the American Chemical Society</i> , 2012 , 134, 16265-74	16.4	39
189	Screening of Novel Metal Oxide Photocatalysts by Scanning Electrochemical Microscopy and Research of Their Photoelectrochemical Properties. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 1201-1207 ³⁸	3.8	39
188	Electrogenerated chemiluminescence (ECL) 79.. <i>Analytica Chimica Acta</i> , 2005 , 541, 141-148	6.6	39
187	Effect of Structural Order on the Dark Current and Photocurrent in Zinc Octakis(beta.-decoxyethyl)porphyrin Thin-Layer Cells. <i>The Journal of Physical Chemistry</i> , 1995 , 99, 7632-7636		39
186	Electrogenerated Chemiluminescence. 55. Emission from Adsorbed Ru(bpy) ₃ ²⁺ on Graphite, Platinum, and Gold. <i>Langmuir</i> , 1994 , 10, 2409-2414	4	39
185	In Situ Scanning Tunneling Microscopic Study of the Corrosion of Type 304L Stainless Steel in Aqueous Chloride Media. <i>Journal of the Electrochemical Society</i> , 1989 , 136, 166-170	3.9	39
184	Reaction of Br ₂ with adsorbed CO on Pt, studied by the surface interrogation mode of scanning electrochemical microscopy. <i>Journal of the American Chemical Society</i> , 2009 , 131, 17046-7	16.4	38
183	Scanning electrochemical microscopy 50. Kinetic study of electrode reactions by the tip generation-substrate collection mode. <i>Analytical Chemistry</i> , 2004 , 76, 2281-9	7.8	38
182	Semiconductor Electrodes: XLVI . Stabilization of n-Silicon Electrodes in Aqueous Solution Photoelectrochemical Cells by Formation of Platinum Silicide Layers. <i>Journal of the Electrochemical Society</i> , 1982 , 129, 1647-1649	3.9	38
181	Polymer films on electrodes. 10. Electrochemical behavior of solution species at Nafion-tetrathiafulvalenium bromide polymers. <i>Journal of the American Chemical Society</i> , 1982 , 104, 5862-5868	16.4	38
180	Electrochemistry of tert-Butylcalix[8]arene-C(60) Films Using a Scanning Electrochemical Microscope-Quartz Crystal Microbalance. <i>Analytical Chemistry</i> , 1998 , 70, 4146-51	7.8	37
179	Imaging of the In Situ Deposition of Lead on Highly Oriented Pyrolytic Graphite by Scanning Tunneling and Atomic Force Microscopies. <i>Journal of the Electrochemical Society</i> , 1992 , 139, 2818-2824	3.9	37
178	Scanning electrochemical microscopy. 46. Shielding effects on reversible and quasireversible reactions. <i>Analytical Chemistry</i> , 2003 , 75, 2959-66	7.8	36
177	In Situ STM Imaging of Silicon(111) in HF under Potential Control. <i>Journal of the Electrochemical Society</i> , 1992 , 139, 2825-2829	3.9	36
176	Semiconductor Electrodes: XXXIII . Photoelectrochemistry of n-Type in Acetonitrile. <i>Journal of the Electrochemical Society</i> , 1981 , 128, 1045-1055	3.9	36
175	An Alkaline Flow Battery Based on the Coordination Chemistry of Iron and Cobalt. <i>Journal of the Electrochemical Society</i> , 2015 , 162, A378-A383	3.9	35
174	Polymer Films on Electrodes: XXIV . Ellipsometric Study of the Electrochemical Redox Processes of a Polypyrrole Film on a Platinum Electrode. <i>Journal of the Electrochemical Society</i> , 1989 , 136, 3720-3724 ^{3.9}	3.9	35
173	Semiconductor Electrodes. 44. Photoelectrochemistry at Polycrystalline p-Type WSe ₂ Films. <i>Journal of the Electrochemical Society</i> , 1982 , 129, 673-675	3.9	35

172	Electrochemical Surface Interrogation of a MoS ₂ 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, 2748-52	6.4	35
171	Iridium Oxidation as Observed by Surface Interrogation Scanning Electrochemical Microscopy. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 8147-8154	3.8	34
170	Optimization of Lead-free Organic-Inorganic Tin(II) Halide Perovskite Semiconductors by Scanning Electrochemical Microscopy. <i>Electrochimica Acta</i> , 2016 , 220, 205-210	6.7	34
169	Compositional Screening of the PbBiMoD System. Spontaneous Formation of a Composite of p-PbMoO ₄ and n-Bi ₂ O ₃ with Improved Photoelectrochemical Efficiency and Stability. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 2707-2710	6.4	34
168	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. <i>Journal of the American Chemical Society</i> , 2013 , 135, 15890-6	16.4	34
167	Effect of Oxygen on Linked Ru(bpy) ₃ ²⁺ -Viologen Species and Methylviologen: A Reinterpretation of the Electrogenerated Chemiluminescence. <i>Journal of the American Chemical Society</i> , 1997 , 119, 10525-10531	16.4	34
166	Semiconductor Particles and Arrays for the Photoelectrochemical Utilization of Solar Energy. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1988 , 92, 1187-1194		34
165	Mechanism of the Br ⁻ /Br ₂ Redox Reaction on Platinum and Glassy Carbon Electrodes in Nitrobenzene by Cyclic Voltammetry. <i>Electrochimica Acta</i> , 2016 , 219, 1-9	6.7	34
164	Nanometer Scale Scanning Electrochemical Microscopy Instrumentation. <i>Analytical Chemistry</i> , 2016 , 88, 10284-10289	7.8	34
163	Electrodeposition of Photoactive Silicon Films for Low-Cost Solar Cells. <i>Journal of the Electrochemical Society</i> , 2016 , 163, D506-D514	3.9	33
162	Electrogenerated chemiluminescence of solutions, films, and nanoparticles of dithienylbenzothiadiazole-based donor-acceptor-donor red fluorophore. Fluorescence quenching study of organic nanoparticles. <i>Journal of the American Chemical Society</i> , 2013 , 135, 8868-73	16.4	33
161	Electrochemistry and electrogenerated chemiluminescence of organic nanoparticles. <i>Journal of Solid State Electrochemistry</i> , 2011 , 15, 2279-2291	2.6	33
160	Scanning electrochemical microscopy. 44. Imaging of horseradish peroxidase immobilized on insulating substrates. <i>Analytical Chemistry</i> , 2002 , 74, 4007-10	7.8	33
159	Hot Electron Generation in Aqueous Solution at Oxide-Covered Tantalum Electrodes. Reduction of Methylpyridinium and Electrogenerated Chemiluminescence of Ru(bpy) ₃ ²⁺ . <i>Journal of Physical Chemistry B</i> , 1999 , 103, 667-674	3.4	33
158	Semiconductor Electrodes: VI . A Photoelectrochemical Solar Cell Employing a Anode and Oxygen Cathode. <i>Journal of the Electrochemical Society</i> , 1976 , 123, 1027-1030	3.9	33
157	Semiconductor Electrodes: XXI . The Characterization and Behavior of n-Type Electrodes in Acetonitrile Solutions. <i>Journal of the Electrochemical Society</i> , 1979 , 126, 1892-1898	3.9	33
156	Electrogenerated chemiluminescence of a spirobifluorene-linked bisanthracene: a possible simultaneous, two-electron transfer. <i>Journal of the American Chemical Society</i> , 2008 , 130, 5354-60	16.4	32
155	Scanning electrochemical microscopy. 36. A combined scanning electrochemical microscope-quartz crystal microbalance instrument for studying thin films. <i>Analytical Chemistry</i> , 1998 , 70, 1993-8	7.8	32

154	Semiconductor Electrodes: XIX . An Investigation of S/Se Substitution in Single Crystal and Photoelectrodes by Electron Spectroscopy. <i>Journal of the Electrochemical Society</i> , 1979 , 126, 949-954	3.9	32
153	Electrodeposition of crystalline silicon films from silicon dioxide for low-cost photovoltaic applications. <i>Nature Communications</i> , 2019 , 10, 5772	17.4	32
152	Electrochemical Control of Polyaniline Morphology as Studied by Scanning Tunneling Microscopy. <i>Journal of the Electrochemical Society</i> , 1991 , 138, L71-L74	3.9	31
151	Semiconductor Electrodes: LVI . Principles of Multijunction Electrodes and Photoelectrosynthesis at Texas Instruments' p/n-Si Solar Arrays. <i>Journal of the Electrochemical Society</i> , 1985 , 132, 544-550	3.9	31
150	Electrohydrodimerization Reactions: IV . A Study of the Effect of Alkali Metal Ions on the Hydrodimerization of Several 1,2-Diactivated Olefins in DMF Solutions by Chronoamperometry and Chronocoulometry. <i>Journal of the Electrochemical Society</i> , 1975 , 122, 211-220	3.9	31
149	Rotating Ring-Disk Electrodes: V . Isomerization and Reductive Coupling of Dialkyl Maleates. <i>Journal of the Electrochemical Society</i> , 1977 , 124, 189-195	3.9	31
148	Electrochemical behavior of polymers in aprotic media. 1. Polyvinyl naphthalene and polyvinylanthracene. <i>The Journal of Physical Chemistry</i> , 1978 , 82, 1101-1105		31
147	Millisecond Coulometry via Zeptoliter Droplet Collisions on an Ultramicroelectrode. <i>Electroanalysis</i> , 2016 , 28, 2320-2326	3	31
146	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, 311-20	16.4	30
145	Pattern recognition correlating materials properties of the elements to their kinetics for the hydrogen evolution reaction. <i>Journal of the American Chemical Society</i> , 2013 , 135, 15885-9	16.4	30
144	Rapid Synthesis and Screening of Zn _x Cd _{1-x} SySe _{1-y} Photocatalysts by Scanning Electrochemical Microscopy. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 20997-21002	3.8	30
143	Application of Nafion/Platinum Electrodes (Solid Polymer Electrolyte Structures) to Voltammetric Investigations of Highly Resistive Solutions. <i>Journal of the Electrochemical Society</i> , 1988 , 135, 1977-1985	3.9	30
142	Initiation of free radical polymerization by heterogeneous photocatalysis at semiconductor powders. <i>Journal of Polymer Science, Polymer Letters Edition</i> , 1979 , 17, 535-538		30
141	Electrochemistry in liquid sulfur dioxide. 3. Electrochemical production of new highly oxidized 2,2'-bipyridine complexes of ruthenium and iron. <i>Journal of the American Chemical Society</i> , 1982 , 104, 6373-6377	16.4	30
140	Scanning Electrochemical Microscopy. 43. Investigation of Oxalate Oxidation and Electrogenerated Chemiluminescence across the Liquid-Liquid Interface. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 8951-8962	3.4	29
139	Polymer Films on Electrodes. 30. Electrochemistry and Scanning Electrochemical Microscopy Characterization of Benzimidazolebenzophenanthroline-Type Ladder (BBL) and Semiladder (BBB) Polymer Films. <i>Chemistry of Materials</i> , 2001 , 13, 2824-2832	9.6	29
138	Semiconductor Electrodes: IX . Digital Simulation of the Relaxation of Photogenerated Free Carriers and Photocurrents. <i>Journal of the Electrochemical Society</i> , 1976 , 123, 1837-1842	3.9	29
137	Concentration-Intensity Relationships in Electrogenerated Chemiluminescence. <i>Analytical Letters</i> , 1967 , 1, 11-17	2.2	29

136	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, 8446-52	16.4	28
135	Scanning electrochemical microscopy study of ion annihilation electrogenerated chemiluminescence of rubrene and [Ru(bpy) ₃] ²⁺ . <i>Journal of the American Chemical Society</i> , 2012 , 134, 9240-50	16.4	28
134	The application of scanning electrochemical microscopy to the discovery of Pd ⁰ 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	2.6	28
133	Effect of an Electric Field on the Growth and Optoelectronic Properties of Quasi-One-Dimensional Organic Single Crystals of 1-(Phenylazo)-2-naphthol. <i>Chemistry of Materials</i> , 1997 , 9, 943-949	9.6	28
132	Voltammetry retrospective. <i>Analytical Chemistry</i> , 2000 , 72, 346A-352A	7.8	28
131	Electrochemical investigation of the electron-transfer kinetics and energetics of illuminated tungsten oxide colloids. <i>The Journal of Physical Chemistry</i> , 1987 , 91, 5083-5087		28
130	Electrochemistry in near-critical and supercritical fluids. 1. Ammonia. <i>Journal of the American Chemical Society</i> , 1984 , 106, 6851-6852	16.4	28
129	Solution Redox Couples for Electrochemical Energy Storage: II . Cobalt(III)-Cobalt(II) Complexes with o-Phenanthroline and Related Ligands. <i>Journal of the Electrochemical Society</i> , 1982 , 129, 61-66	3.9	28
128	Semiconductor Electrodes: VII . Digital Simulation of Charge Injection and the Establishment of the Space Charge Region in the Absence and Presence of Surface States. <i>Journal of the Electrochemical Society</i> , 1976 , 123, 1828-1832	3.9	28
127	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	3.8	27
126	Methanol Tolerance of Pd ⁰ to Oxygen Reduction Reaction Electrocatalysts Using Scanning Electrochemical Microscopy. <i>Electrochemical and Solid-State Letters</i> , 2008 , 11, B136		27
125	Scanning Electrochemical Microscopy. 49. Gas-Phase Scanning Electrochemical Microscopy Measurements with a Clark Oxygen Ultramicroelectrode. <i>Analytical Chemistry</i> , 2003 , 75, 5071-5079	7.8	27
124	Semiconductor Electrodes: XXXIV . Photoelectrochemistry of p-Type in Acetonitrile and the Cell. <i>Journal of the Electrochemical Society</i> , 1981 , 128, 1055-1060	3.9	27
123	Semiconductor Electrodes: XLII . Evidence for Fermi Level Pinning from Shifts in the Flatband Potential of p-Type Silicon in Acetonitrile Solutions with Different Redox Couples. <i>Journal of the Electrochemical Society</i> , 1982 , 129, 1742-1745	3.9	27
122	Semiconductor Electrodes: XVII . Electrochemical Behavior of n- and p-Type Electrodes in Acetonitrile Solutions. <i>Journal of the Electrochemical Society</i> , 1979 , 126, 598-603	3.9	27
121	Measurement of temperature-dependent stability constants of Cu(I) and Cu(II) chloride complexes by voltammetry at a Pt ultramicroelectrode. <i>Analytical Chemistry</i> , 2015 , 87, 3498-504	7.8	26
120	Application of the Koutecký-Levich Method to the Analysis of Steady State Voltammograms with Ultramicroelectrodes. <i>Analytical Chemistry</i> , 2016 , 88, 1742-7	7.8	26
119	Single-Nanoparticle Collision Events: Tunneling Electron Transfer on a Titanium Dioxide Passivated n-Silicon Electrode. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 13753-7	16.4	26

118	Effect of Residual Solvent on Ru(bpy) ₃ (ClO ₄) ₂ -Based Light-Emitting Electrochemical Cells. <i>Chemistry of Materials</i> , 2005 , 17, 6403-6406	9.6	26
117	Demonstration of Electrochemical Generation of Solution-Phase Hot Electrons at Oxide-Covered Tantalum Electrodes by Direct Electrogenerated Chemiluminescence. <i>Journal of Physical Chemistry B</i> , 1998 , 102, 9797-9805	3.4	26
116	In Situ Monitoring of Diffuse Double Layer Structure Changes of Electrochemically Addressable Self-Assembled Monolayers with an Atomic Force Microscope. <i>Langmuir</i> , 1999 , 15, 3343-3347	4	26
115	Novel application of potentiometric microelectrodes: Scanning potentiometric microscopy. <i>Electroanalysis</i> , 1995 , 7, 801-810	3	26
114	Semiconductor Electrodes: XXVIII . Rotating Ring-Disk Electrode Studies of Photo-oxidation of Acetate and Iodide at. <i>Journal of the Electrochemical Society</i> , 1980 , 127, 1056-1059	3.9	26
113	Direct Observation of CO and CO by Oxidation of Oxalate within Nanogap of Scanning Electrochemical Microscope. <i>Journal of the American Chemical Society</i> , 2018 , 140, 16178-16183	16.4	26
112	Simultaneous Detection of Single Attoliter Droplet Collisions by Electrochemical and Electrogenerated Chemiluminescent Responses. <i>Angewandte Chemie</i> , 2014 , 126, 12053-12056	3.6	25
111	Electrochemistry and Electrogenerated Chemiluminescence of Some BODIPY Derivatives. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 15361-15368	3.8	25
110	Scanning Electrochemical Microscopy: V . A Study of the Conductivity of a Polypyrrole Film. <i>Journal of the Electrochemical Society</i> , 1990 , 137, 1481-1484	3.9	25
109	Semiconductor Electrodes: XLVII . A-C Impedance Technique for Evaluating Surface State Properties of in Acetonitrile Solutions Containing Various Redox Couples. <i>Journal of the Electrochemical Society</i> , 1983 , 130, 385-391	3.9	25
108	Surface Interrogation of Electrodeposited MnO and CaMnO 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	16.4	25
107	Cathodically Dissolved Platinum Resulting from the O and HO Reduction Reactions on Platinum Ultramicroelectrodes. <i>Analytical Chemistry</i> , 2017 , 89, 3087-3092	7.8	24
106	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	16.4	24
105	Electrochemical Size Measurement and Characterization of Electrodeposited Platinum Nanoparticles at Nanometer Resolution with Scanning Electrochemical Microscopy. <i>Nano Letters</i> , 2017 , 17, 4354-4358	11.5	24
104	Switching Transient Generation in Surface Interrogation Scanning Electrochemical Microscopy and Time-of-Flight Techniques. <i>Analytical Chemistry</i> , 2015 , 87, 12276-80	7.8	24
103	Effect of Orientation of Porphyrin Single-Crystal Slices on Optoelectronic Properties. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 3587-3591		23
102	Electrogenerated chemiluminescence. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1984 , 167, 127-140		23
101	Electrophoretic migration and particle collisions in scanning electrochemical microscopy. <i>Analytical Chemistry</i> , 2014 , 86, 11666-72	7.8	22

100	Electric Field Modulated Near-Field Photo-Luminescence of Organic Thin Films. <i>Journal of Physical Chemistry B</i> , 2000 , 104, 6728-6736	3.4	22
99	Semiconductor Electrodes: VIII . Digital Simulation of Open-Circuit Photopotentials. <i>Journal of the Electrochemical Society</i> , 1976 , 123, 1833-1837	3.9	22
98	Electrodeposition Techniques for Carbon Rod Flameless Atomic Absorption Analysis. <i>Analytical Letters</i> , 1972 , 5, 433-438	2.2	22
97	Characterization of Ag+ toxicity on living fibroblast cells by the ferrocenemethanol and oxygen response with the scanning electrochemical microscope. <i>Journal of Electroanalytical Chemistry</i> , 2013 , 688, 61-68	4.1	21
96	Electrochemistry and Electrogenated Chemiluminescence of a Novel Donor-Acceptor FPhSPFN Red Fluorophore. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 9772-9780	3.8	21
95	Achieving nanometer scale tip-to-substrate gaps with micrometer-size ultramicroelectrodes in scanning electrochemical microscopy. <i>Analytical Chemistry</i> , 2011 , 83, 9082-5	7.8	21
94	Enhancement of Electrochemical Hot Electron Injection into Electrolyte Solutions at Oxide-Covered Tantalum Electrodes by Thin Platinum Films. <i>Journal of Physical Chemistry B</i> , 1998 , 102, 9806-9811	3.4	21
93	Polymer Films on Electrodes: XXVII . Electrochemical and Ellipsometric Measurements of a Viologen-Siloxane Polymer Film: Deposition, Solvent Swelling, Oxidation-State-Dependent Thickness, and Charge Transport. <i>Journal of the Electrochemical Society</i> , 1995 , 142, 4129-4138	3.9	21
92	Semiconductor Electrodes: LIV . Effect of Redox Couple, Doping Level, and Metal Type on the Electrochemical and Photoelectrochemical Behavior of Silicide-Coated n-Type Silicon Photoelectrodes. <i>Journal of the Electrochemical Society</i> , 1984 , 131, 828-833	3.9	21
91	Electrochemical Determination of Hydrogen Transport Through Copper. <i>Journal of the Electrochemical Society</i> , 1985 , 132, 2965-2967	3.9	21
90	Electrogenated Chemiluminescence: 34. Photo-Induced Electrogenated Chemiluminescence and Up-Conversion at Semiconductor Electrodes. <i>Journal of the Electrochemical Society</i> , 1979 , 126, 414-419	3.9	21
89	Liquid-Tin-Assisted Molten Salt Electrodeposition of Photoresponsive n-Type Silicon Films. <i>Advanced Functional Materials</i> , 2018 , 28, 1703551	15.6	21
88	Electrochemical Monitoring of TiO ₂ Atomic Layer Deposition by Chronoamperometry and Scanning Electrochemical Microscopy. <i>Chemistry of Materials</i> , 2013 , 25, 4165-4172	9.6	20
87	Photophysical, Electrochemical, and Electrogenated Chemiluminescent Properties of 9,10-Dimethyl-7,12-diphenylbenzo[k]fluoranthene and 9,10-Dimethylsulfone-7,12-diphenylbenzo[k]fluoranthene. <i>Journal of Physical Chemistry A</i> , 2002 , 106, 1811-1826	2.8	20
86	Optoelectric Charge Trapping/Detrapping in Thin Solid Films of Organic Azo Dyes: Application of Scanning Tunneling Microscopic Tip Contact to Photoconductive Films for Data Storage. <i>Chemistry of Materials</i> , 1998 , 10, 840-846	9.6	20
85	Semiconductor Electrodes: XXIII . The Determination of Flatband Potentials from Differential Stress Measurements with Attached Piezoelectric Detectors. <i>Journal of the Electrochemical Society</i> , 1980 , 127, 338-343	3.9	20
84	Surface Interrogation Scanning Electrochemical Microscopy for a Photoelectrochemical Reaction: Water Oxidation on a Hematite Surface. <i>Analytical Chemistry</i> , 2018 , 90, 3045-3049	7.8	19
83	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	7.8	19

82	Oligothiophene Nanoparticles: Photophysical and Electrogenerated Chemiluminescence Studies. <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 2035-2038	6.4	19
81	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. <i>Journal of the American Chemical Society</i> , 2011 , 133, 15737-42	16.4	19
80	ac-mode atomic force microscope imaging in air and solutions with a thermally driven bimetallic cantilever probe. <i>Review of Scientific Instruments</i> , 1997 , 68, 2082-2090	1.7	19
79	Electrogenerated Chemiluminescence: XXXIII . The Production of Excited States by Direct Heterogeneous Electron Transfer from Semiconductor Electrodes. <i>Journal of the Electrochemical Society</i> , 1978 , 125, 1423-1429	3.9	19
78	Electrochemically controllable coating of a functional silicon film on carbon materials. <i>Electrochimica Acta</i> , 2018 , 269, 610-616	6.7	18
77	Monitoring Multilayer Film Growth with the Atomic Force Microscope. Aluminum(III) Alkanebisphosphonate Multilayer Films and DNA Immobilization. <i>Analytical Chemistry</i> , 1998 , 70, 2870-2875	7.8	18
76	Scanning Electrochemical Microscopy 18: Thin Layer Cell Formation with a Mercury Pool Substrate. <i>Journal of the Electrochemical Society</i> , 1992 , 139, 3535-3539	3.9	18
75	Semiconductor Electrodes, 62. Photoluminescence and Electroluminescence from Manganese-Doped ZnS and CVD ZnS Electrodes. <i>Journal of the Electrochemical Society</i> , 1989 , 136, 1033-1039	3.9	18
74	Electrogenerated chemiluminescence. Effect of a magnetic field on the delayed fluorescence and ECL of several systems involving excimers or exciplexes. <i>Chemical Physics Letters</i> , 1974 , 26, 568-573	2.5	18
73	Rapid Preparation and Photoelectrochemical Screening of CuInSe ₂ and CuInMSe ₂ Arrays by Scanning Electrochemical Microscopy. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 17509-17513	3.8	17
72	Electrochemistry and electrogenerated chemiluminescence with a single faradaic electrode. <i>Analytical Chemistry</i> , 2005 , 77, 5339-43	7.8	17
71	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	16.4	16
70	Electrodeposition of Crystalline and Photoactive Silicon Directly from Silicon Dioxide Nanoparticles in Molten CaCl ₂ . <i>Angewandte Chemie</i> , 2012 , 124, 12912-12916	3.6	16
69	Experimental Techniques for Detection of Components Extracted from Model 193 nm Immersion Lithography Photoresists. <i>Chemistry of Materials</i> , 2005 , 17, 4194-4203	9.6	16
68	Near-Ir Electrogenerated Chemiluminescence of Tricarbocyanine Dyes in Micellar Systems. <i>Analytical Letters</i> , 1998 , 31, 2209-2229	2.2	16
67	Steric effects and the electrochemistry of phenyl-substituted anthracenes and related compounds. <i>Discussions of the Faraday Society</i> , 1968 , 45, 167		16
66	Cyclic voltammetry studies of Cd ²⁺ and Zn ²⁺ complexation with hydroxyl-terminated polyamidoamine generation 2 dendrimer at a mercury microelectrode. <i>Journal of Electroanalytical Chemistry</i> , 2008 , 621, 286-296	4.1	15
65	Effect of Water Vapor on the Operation and Stability of Tris(2,2'-bipyridine)ruthenium(II)-Based Light-Emitting Electrochemical Cells. <i>Chemistry of Materials</i> , 2005 , 17, 4212-4217	9.6	14

64	Increased photo- and electroluminescence by zone annealing of spin-coated and vacuum-sublimed amorphous films producing crystalline thin films. <i>Applied Physics Letters</i> , 2003 , 83, 5431-5433	3.4	14
63	Electrogenerated chemiluminescence. II. The rotating ring-disk electrode and the pyrene-N,N,N',N'-tetramethyl-p-phenylenediamine system. <i>The Journal of Physical Chemistry</i> , 1968 , 72, 4348-4350		14
62	Ultrasensitive Electroanalysis: Femtomolar Determination of Lead, Cobalt, and Nickel. <i>Analytical Chemistry</i> , 2018 , 90, 1142-1146	7.8	14
61	Electrochemical Production of Si without Generation of CO Based on the Use of a Dimensionally Stable Anode in Molten CaCl. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 16223-16228	16.4	13
60	Rapid Characterization of Oxygen-Evolving Electrocatalyst Spot Arrays by the Substrate Generation/Tip Collection Mode of Scanning Electrochemical Microscopy with Decreased O ₂ Diffusion Layer Overlap. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 2941-2947	3.8	13
59	Polymer films on electrodes: Part 29. Electropolymerized poly(7,14-diphenylacenaphtho[1,2-k]fluoranthene): electrochemistry and conductance of a novel electrochromic hydrocarbon ladder polymer film. <i>Journal of Electroanalytical Chemistry</i> , 2001 , 498, 67-74	4.1	13
58	On the Electrochemical Oxidation of Cs ⁺ and Other Alkali-Metal Ions in Liquid Sulfur Dioxide and Acetonitrile. <i>Angewandte Chemie International Edition in English</i> , 1991 , 30, 836-838		13
57	The Use of a Scanning Tunneling Microscope to Estimate Film Thickness and Conductivity of an Electrochemically Produced Poly-1-aminoanthracene Film. <i>Journal of the Electrochemical Society</i> , 1992 , 139, 2182-2185	3.9	13
56	Semiconductor Electrodes: LV. Differential Photocurrent Determination of Absorption Coefficient and Diffusion Length in Photoelectrochemical Cells. <i>Journal of the Electrochemical Society</i> , 1984 , 131, 1038-1045	3.9	13
55	Electrocarboxylation Reactions: Rotating Ring-Disk Electrode, Voltammetric, and Electron Spin Resonance Studies of Dialkyl Fumarates and Maleates. <i>Journal of the Electrochemical Society</i> , 1977 , 124, 355-360	3.9	13
54	Observation of nanometer-sized electro-active defects in insulating layers by fluorescence microscopy and electrochemistry. <i>Analytical Chemistry</i> , 2015 , 87, 5730-7	7.8	12
53	Examining ultramicroelectrodes for scanning electrochemical microscopy by white light vertical scanning interferometry and filling recessed tips by electrodeposition of gold. <i>Analytical Chemistry</i> , 2012 , 84, 5159-63	7.8	12
52	Electrochemistry. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 11484-6	11.5	12
51	Polymer Films on Electrodes: XXII . Electrochemical, Spectroscopic, and Transmission Electron Microscopic Studies of Morphological Changes in Films of Polymeric Surfactants. <i>Journal of the Electrochemical Society</i> , 1988 , 135, 1669-1675	3.9	12
50	Electrode Surfaces Probed by Direct Adhesive Force Measurements. <i>Journal of the Electrochemical Society</i> , 1988 , 135, 1599-1600	3.9	12
49	Extraordinary Dielectric Properties at Heterojunctions of Amorphous Ferroelectrics. <i>Journal of the American Chemical Society</i> , 2018 , 140, 17968-17976	16.4	12
48	Electrochemistry and Electrogenerated Chemiluminescence of Quinoxaline Derivatives. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 20027-20032	3.8	11
47	Electrochemical, spectroscopic, and mass spectrometric studies of the interaction of silver species with polyamidoamine dendrimers. <i>Analytical Chemistry</i> , 2005 , 77, 4413-22	7.8	11

46	Triboluminescence and Triboelectrification by the Motion of Mercury Over Glass Coated with Scintillator Dyes. <i>Journal of the Electrochemical Society</i> , 1973 , 120, 1726	3.9	11
45	Lipid Membrane Permeability of Synthetic Redox DMPC Liposomes Investigated by Single Electrochemical Collisions. <i>Analytical Chemistry</i> , 2020 , 92, 2401-2408	7.8	11
44	Electrochemistry and Electrogenerated Chemiluminescence of (dppy)BTPAa Bipolar, Solvatochromic Boron Compound. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 16345-16350	3.8	10
43	Electrochemistry and electrogenerated chemiluminescence of a thin solid film of a hydrophobic tris(bipyridine) Ru(II) derivative in contact with an aqueous solution. <i>Journal of Solid State Electrochemistry</i> , 2004 , 8, 706	2.6	10
42	Semiconductor Electrodes: LXI . Photoelectrochemistry of in Aqueous Solutions. <i>Journal of the Electrochemical Society</i> , 1987 , 134, 76-80	3.9	10
41	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	6.7	9
40	Assessment of the Stability and Operability of Cobalt Phosphide Electrocatalyst for Hydrogen Evolution. <i>Analytical Chemistry</i> , 2017 , 89, 8574-8579	7.8	9
39	Single-Nanoparticle Collision Events: Tunneling Electron Transfer on a Titanium Dioxide Passivated n-Silicon Electrode. <i>Angewandte Chemie</i> , 2015 , 127, 13957-13961	3.6	9
38	Orientalional Dependence of the Color and Photoconductivity of 1,4-Di-p-toluidinoanthraquinone Single Crystals. <i>Chemistry of Materials</i> , 1997 , 9, 1318-1327	9.6	9
37	Enhanced Quantum Efficiencies and Short-Circuit Photocurrents in Solid Porphyrin Thin Film Cells by Internal Electric Fields. <i>Journal of the American Chemical Society</i> , 1998 , 120, 5575-5576	16.4	9
36	Functionalized Porphyrin Discotic Liquid Crystals: Photoinduced Charge Separation and Trapping. <i>Journal of the Chinese Chemical Society</i> , 1993 , 40, 321-327	1.5	9
35	Electrogenerated Chemiluminescence: XXVI . Systems Involving Tetraarylpyrroles, Tetraphenylfuran, and Tetraphenylthiophene. <i>Journal of the Electrochemical Society</i> , 1976 , 123, 814-818	3.9	9
34	Direct photoelectrochemical characterization of photocatalytic H, N doped TiO ₂ powder suspensions. <i>Journal of Electroanalytical Chemistry</i> , 2018 , 819, 38-45	4.1	8
33	Visible Light Photoelectrochemical Properties of PbCrO ₄ , Pb ₂ CrO ₅ , and Pb ₅ CrO ₈ . <i>Journal of Physical Chemistry C</i> , 2017 , 121, 17561-17568	3.8	8
32	Evaluation of the chemical reactions from two electrogenerated species in picoliter volumes by scanning electrochemical microscopy. <i>ChemPhysChem</i> , 2010 , 11, 2969-78	3.2	8
31	The Rise of Voltammetry: From Polarography to the Scanning Electrochemical Microscope. <i>Journal of Chemical Education</i> , 2007 , 84, 644	2.4	8
30	Optimization Of Wired Enzyme O ₂ -Electroreduction Catalyst Compositions by Scanning Electrochemical Microscopy. <i>Angewandte Chemie</i> , 2004 , 116, 6515-6517	3.6	8
29	Electrochemical and surface characterization of platinum silicide electrodes and their use as stable platforms for electrogenerated chemiluminescence assays. <i>Journal of Electroanalytical Chemistry</i> , 2003 , 554-555, 99-111	4.1	8

28	Anodic Electrodeposition of Gold from Liquid Ammonia Solutions. <i>Journal of the Electrochemical Society</i> , 1978 , 125, 1717-1718	3.9	8
27	A life in electrochemistry. <i>Annual Review of Analytical Chemistry</i> , 2014 , 7, 1-21	12.5	7
26	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	3.6	7
25	Electro-optical Charge Trapping in Zinc Porphyrin Films on Indium Tin Oxide and / SiO ₂ / Si. <i>Journal of the Electrochemical Society</i> , 1996 , 143, 1914-1918	3.9	7
24	The Diffusion of Ferricyanide Through Perfluorinated Ionomer (Nafion) Membranes. <i>Journal of Macromolecular Science Part A, Chemistry</i> , 1989 , 26, 1205-1209		7
23	Electrochemistry in Liquid SO ₂ : IX. Oxidation of n-Alkanes and Alkylammonium Ions at Pt Ultramicroelectrodes in Liquid. <i>Journal of the Electrochemical Society</i> , 1990 , 137, 2752-2759	3.9	7
22	Integrated Chemical Systems: n-Silicon/Silicide/Catalyst Systems. <i>ACS Symposium Series</i> , 1983 , 93-95	0.4	7
21	Electrohydrodimerization Reactions: V. Liquid Ammonia as a Solvent for Reductive Coupling of Diethyl Fumarate, Cinnamitrile, and Acrylonitrile. <i>Journal of the Electrochemical Society</i> , 1975 , 122, 894-897	3.9	7
20	Doping of the Semiconducting Polymer Poly(3-hexylthiophene) (P3HT) in Organic Photoelectrochemical Cells. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 3439-3447	3.8	6
19	Introduction and Principles 2012 , 1-14		6
18	Electrochemical Behavior of Thin Platinum(111) Films Deposited on Mica Surfaces. <i>Journal of the Electrochemical Society</i> , 1985 , 132, 2666-2668	3.9	5
17	Semiconductor Electrodes: LVII. Differential Photocurrent and Second Harmonic Techniques for in situ Monitoring of Surface States on in Aqueous Solutions. <i>Journal of the Electrochemical Society</i> , 1984 , 131, 2289-2294	3.9	4
16	Electrogenerated Chemiluminescence: XXXII. ECL from Energy-Deficient Aromatic Hydrocarbon Acceptor and Tetrathiafulvalene Donor Systems. <i>Journal of the Electrochemical Society</i> , 1978 , 125, 1430-1435	3.9	4
15	Discotic Liquid Crystalline Porphyrins: Photophysical and Photoelectrical Properties of Large-Area Crystalline Films. <i>Materials Research Society Symposia Proceedings</i> , 1989 , 173, 199		3
14	Light-Emitting Electrochemical Cells. <i>Science</i> , 1995 , 270, 718-718	33.3	3
13	Surface Interrogation of Electrodeposited MnO _x and 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	3.6	3
12	Analyzing Secondary Metabolite Production by 3D Printed Bacterial Populations Using Scanning Electrochemical Microscopy. <i>Microscopy and Microanalysis</i> , 2014 , 20, 1182-1183	0.5	2
11	Electrohydrodimerization Reactions: VI. Rotating-Ring Disk Electrode and Macroscale Electrolysis Studies of the Second Reduction Wave of Diethyl Fumarate. <i>Journal of the Electrochemical Society</i> , 1976 , 123, 1303-1307	3.9	2

10	Electrochemical vapor deposition of semiconductors from gas phase with a solid membrane cell. <i>Journal of the American Chemical Society</i> , 2015 , 137, 6638-42	16.4	1
9	New experimental fundamental electrochemistry for the twenty-first century. <i>Journal of Solid State Electrochemistry</i> , 2020 , 24, 2035-2038	2.6	1
8	Electrochemical Production of Si without Generation of CO ₂ Based on the Use of a Dimensionally Stable Anode in Molten CaCl ₂ . <i>Angewandte Chemie</i> , 2019 , 131, 16369-16374	3.6	1
7	Electrogenerated chemiluminescence (ECL) of 2-oxa-bicyclo[3.3.0]octa-4,8-diene-3,6-dione (OBDD). <i>Journal of Electroanalytical Chemistry</i> , 2009 , 635, 7-12	4.1	1
6	Potential Step-Current Step Techniques. <i>Analytical Letters</i> , 1968 , 1, 533-540	2.2	1
5	Controlled Potential Coulometry Employing a Rotating Disk Electrode. <i>Analytical Letters</i> , 1970 , 3, 443-448	2.2	1
4	CHARGE TRANSPORT THROUGH CARBON NANOTUBE OR FULLERENE MOLECULES IN SILICON JUNCTIONS. <i>Nano</i> , 2007 , 02, 285-294	1.1	0
3	On the Applicability of the Relative Excimer Yield Equation to Electrogenerated Chemiluminescence. <i>Spectroscopy Letters</i> , 1975 , 8, 97-99	1.1	0
2	Electrochromic Devices Based on Ladder Polymer and Phenothiazine-Quinoline Copolymer Films. <i>ACS Symposium Series</i> , 2004 , 34-50	0.4	
1	Abnormal Decomposition Potentials Reconsidered: A Corrected Treatment. <i>Journal of Chemical Education</i> , 2000 , 77, 526	2.4	