

# William R Heineman

## List of Publications by Year in descending order

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224  
papers

11,580  
citations

34016

52  
h-index

33814

99  
g-index

231  
all docs

231  
docs citations

231  
times ranked

10769  
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrochemical biosensors. <i>Chemical Society Reviews</i> , 2010, 39, 1747.	18.7	1,463
2	Cyclic voltammetry. <i>Journal of Chemical Education</i> , 1983, 60, 702.	1.1	640
3	Microfluidic immunosensor systems. <i>Biosensors and Bioelectronics</i> , 2005, 20, 2488-2503.	5.3	490
4	The autofluorescence of plastic materials and chips measured under laser irradiation. <i>Lab on A Chip</i> , 2005, 5, 1348.	3.1	354
5	An integrated microfluidic biochemical detection system for protein analysis with magnetic bead-based sampling capabilities. <i>Lab on A Chip</i> , 2002, 2, 27.	3.1	349
6	Revolutionizing biodegradable metals. <i>Materials Today</i> , 2009, 12, 22-32.	8.3	331
7	Small-volume voltammetric detection of 4-aminophenol with interdigitated array electrodes and its application to electrochemical enzyme immunoassay. <i>Analytical Chemistry</i> , 1993, 65, 1559-1563.	3.2	293
8	Measurement of enzyme E <sub>deg.</sub> ' values by optically transparent thin layer electrochemical cells. <i>Analytical Chemistry</i> , 1975, 47, 79-84.	3.2	243
9	Fast escape of hydrogen from gas cavities around corroding magnesium implants. <i>Acta Biomaterialia</i> , 2013, 9, 8714-8721.	4.1	237
10	Zeptomole-Detecting Biosensor for Alkaline Phosphatase in an Electrochemical Immunoassay for 2,4-Dichlorophenoxyacetic acid. <i>Analytical Chemistry</i> , 1996, 68, 2453-2458.	3.2	195
11	p-aminophenyl phosphate: an improved substrate for electrochemical enzyme immunoassay. <i>Analytica Chimica Acta</i> , 1988, 214, 187-195.	2.6	186
12	An electrochemical experiment using an optically transparent thin layer electrode. <i>Journal of Chemical Education</i> , 1976, 53, 594.	1.1	178
13	Study of electrogenerated reactants using optically transparent electrodes. <i>Accounts of Chemical Research</i> , 1976, 9, 241-248.	7.6	173
14	Strategies for Electrochemical Immunoassay. <i>Analytical Chemistry</i> , 1985, 57, 1321A-1331A.	3.2	163
15	Carbohydrate-Based Label-Free Detection of <i>Escherichia coli</i> ORN 178 Using Electrochemical Impedance Spectroscopy. <i>Analytical Chemistry</i> , 2012, 84, 241-246.	3.2	128
16	Analytical electrochemistry: methodology and applications of dynamic techniques. <i>Analytical Chemistry</i> , 1978, 50, 166-175.	3.2	121
17	Spectroelectrochemical Sensing Based on Multimode Selectivity Simultaneously Achievable in a Single Device. 1. Demonstration of Concept with Ferricyanide. <i>Analytical Chemistry</i> , 1997, 69, 3679-3686.	3.2	118
18	A nanotube array immunosensor for direct electrochemical detection of antigen-antibody binding. <i>Sensors and Actuators B: Chemical</i> , 2007, 123, 177-182.	4.0	104

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19	Simultaneous Detection of Heavy Metals by Anodic Stripping Voltammetry Using Carbon Nanotube Thread. <i>Electroanalysis</i> , 2014, 26, 488-496.	1.5	103
20	Comparison of methods for following alkaline phosphatase catalysis: Spectrophotometric versus amperometric detection. <i>Analytical Biochemistry</i> , 1991, 192, 90-95.	1.1	95
21	Title is missing!. <i>Biomedical Microdevices</i> , 2001, 3, 191-200.	1.4	95
22	Electrochemical immunoassay moving into the fast lane. <i>TrAC - Trends in Analytical Chemistry</i> , 2002, 21, 213-225.	5.8	95
23	A Comprehensive Review: Development of Electrochemical Biosensors for Detection of Cyanotoxins in Freshwater. <i>ACS Sensors</i> , 2019, 4, 1151-1173.	4.0	92
24	EXAFS spectroelectrochemistry. <i>Chemical Reviews</i> , 1990, 90, 705-722.	23.0	89
25	Electrochemical enzyme immunoassay using sequential saturation technique in a 20- $\mu$ m capillary: digoxin as a model analyte. <i>Analytica Chimica Acta</i> , 1994, 287, 253-258.	2.6	88
26	Heterogeneous immunoassay for serum proteins by differential pulse anodic stripping voltammetry. <i>Analytical Chemistry</i> , 1982, 54, 2318-2322.	3.2	87
27	A Multiwalled Carbon Nanotube-Based Biosensor for Monitoring Microcystin-LR in Sources of Drinking Water Supplies. <i>Advanced Functional Materials</i> , 2013, 23, 1807-1816.	7.8	87
28	Disposable Copper-Based Electrochemical Sensor for Anodic Stripping Voltammetry. <i>Analytical Chemistry</i> , 2014, 86, 4893-4900.	3.2	84
29	Spatially Addressed Deposition and Imaging of Biochemically Active Bead Microstructures by Scanning Electrochemical Microscopy. <i>Analytical Chemistry</i> , 2000, 72, 333-338.	3.2	81
30	Electrochemical Behavior of Graphite Electrodes Modified by Spin-Coating with Sol <sup>+</sup> Gel-Entrapped Ionomers. <i>Analytical Chemistry</i> , 1997, 69, 703-710.	3.2	79
31	Bead-Based Electrochemical Immunoassay for Bacteriophage MS2. <i>Analytical Chemistry</i> , 2004, 76, 2700-2707.	3.2	79
32	Spectroelectrochemistry: The combination of optical and electrochemical techniques. <i>Journal of Chemical Education</i> , 1983, 60, 305.	1.1	78
33	Determination of Trace Metals by Anodic Stripping Voltammetry Using a Carbon Nanotube Tower Electrode. <i>Electroanalysis</i> , 2011, 23, 1252-1259.	1.5	78
34	Spectroelectrochemical Sensing Based on Multimode Selectivity Simultaneously Achievable in a Single Device. 2. Demonstration of Selectivity in the Presence of Direct Interferences. <i>Analytical Chemistry</i> , 1997, 69, 4819-4827.	3.2	74
35	Lab-on-a-chip sensor for detection of highly electronegative heavy metals by anodic stripping voltammetry. <i>Biomedical Microdevices</i> , 2011, 13, 695-703.	1.4	72
36	Electrospun Carbon Nanofiber Modified Electrodes for Stripping Voltammetry. <i>Analytical Chemistry</i> , 2015, 87, 9315-9321.	3.2	70

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37	An Analytical Study of the Redox Behavior of 1,10-Phenanthroline-5,6-dione, its Transition-Metal Complexes, and its <i>N</i> -Monomethylated Derivative with regard to their Efficiency as Mediators of NAD(P) <sup>+</sup> Regeneration. <i>Chemistry - A European Journal</i> , 1997, 3, 79-88.	1.7	68
38	Spectroelectrochemical Sensing Based on Attenuated Total Internal Reflectance Stripping Voltammetry. 3. Determination of Cadmium and Copper. <i>Analytical Chemistry</i> , 2004, 76, 1466-1473.	3.2	63
39	On-Line Sample Preconcentration Using Field-amplified Stacking Injection in Microchip Capillary Electrophoresis. <i>Analytical Chemistry</i> , 2006, 78, 3730-3737.	3.2	61
40	Electrochemical Immunoassay with Microscopic Immunomagnetic Bead Domains and Scanning Electrochemical Microscopy. <i>Electroanalysis</i> , 2000, 12, 640-644.	1.5	60
41	Analytical electrochemistry: methodology and applications of dynamic techniques. <i>Analytical Chemistry</i> , 1980, 52, 138-151.	3.2	58
42	High sensitivity carbon nanotube tower electrodes. <i>Sensors and Actuators B: Chemical</i> , 2006, 120, 298-304.	4.0	57
43	Thin-layer spectroelectrochemical studies of cobalt and copper Schiff base complexes. <i>Inorganic Chemistry</i> , 1979, 18, 2536-2542.	1.9	56
44	Long optical path electrochemical cell for absorption or fluorescence spectrometers. <i>Analytical Chemistry</i> , 1982, 54, 2382-2384.	3.2	56
45	Carbon Nanotube-Loaded Nafion Film Electrochemical Sensor for Metal Ions: Europium. <i>Analytical Chemistry</i> , 2014, 86, 4354-4361.	3.2	56
46	Oscillating mirror rapid scanning ultraviolet-visible spectrometer as a detector for liquid chromatography. <i>Analytical Chemistry</i> , 1976, 48, 20-24.	3.2	55
47	Beyond graphene foam, a new form of three-dimensional graphene for supercapacitor electrodes. <i>Journal of Materials Chemistry A</i> , 2016, 4, 1876-1886.	5.2	55
48	Micro volume rotating disk electrode (RDE) amperometric detection for a bead-based immunoassay. <i>Analytica Chimica Acta</i> , 1999, 399, 3-11.	2.6	54
49	Spectroelectrochemical Sensing Based on Multimode Selectivity Simultaneously Achievable in a Single Device. 16. Sensing by Fluorescence. <i>Analytical Chemistry</i> , 2003, 75, 6334-6340.	3.2	54
50	Spectroelectrochemical Sensing Based on Multimode Selectivity Simultaneously Achievable in a Single Device. 3. Effect of Signal Averaging on Limit of Detection. <i>Analytical Chemistry</i> , 1999, 71, 1196-1203.	3.2	53
51	Spectroelectrochemical Sensing Based on Multimode Selectivity Simultaneously Achievable in a Single Device. 13. Detection of Aqueous Iron by in Situ Complexation with 2,2'-Bipyridine. <i>Analytical Chemistry</i> , 2002, 74, 3330-3335.	3.2	53
52	Electrochemical and optical evaluation of noble metal- and carbon-ITO hybrid optically transparent electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2004, 565, 311-320.	1.9	53
53	Amperometric determination of live <i>Escherichia coli</i> using antibody-coated paramagnetic beads. <i>Analytical and Bioanalytical Chemistry</i> , 2005, 382, 1234-1241.	1.9	53
54	Gold-coated carbon nanotube electrode arrays: Immunosensors for impedimetric detection of bone biomarkers. <i>Biosensors and Bioelectronics</i> , 2016, 77, 580-588.	5.3	52

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55	Spectroelectrochemical Sensing Based on Multimode Selectivity Simultaneously Achievable in a Single Device. 11. Design and Evaluation of a Small Portable Sensor for the Determination of Ferrocyanide in Hanford Waste Samples. <i>Environmental Science &amp; Technology</i> , 2003, 37, 123-130.	4.6	50
56	Thin-layer differential pulse voltammetry. <i>Analytical Chemistry</i> , 1977, 49, 1792-1797.	3.2	49
57	Electrochemical behavior of methyl viologen at graphite electrodes modified with Nafion sol-gel composite. <i>Analytica Chimica Acta</i> , 1998, 370, 221-230.	2.6	49
58	Carbon and mercury-carbon optically transparent electrodes. <i>Analytical Chemistry</i> , 1977, 49, 1395-1398.	3.2	48
59	Electrodes with polymer network films formed by $\gamma$ -irradiation cross-linking. <i>Analytical Chemistry</i> , 1987, 59, 134-139.	3.2	48
60	Stripping voltammetry of copper and lead using gold electrodes modified with self-assembled monolayers. <i>Journal of Solid State Electrochemistry</i> , 1997, 1, 241-247.	1.2	47
61	Cloud Point Extraction for Electroanalysis: Anodic Stripping Voltammetry of Cadmium. <i>Analytical Chemistry</i> , 2015, 87, 6133-6140.	3.2	47
62	In vivo characterization of magnesium alloy biodegradation using electrochemical H <sub>2</sub> monitoring, ICP-MS, and XPS. <i>Acta Biomaterialia</i> , 2017, 50, 556-565.	4.1	47
63	In vivo monitoring the biodegradation of magnesium alloys with an electrochemical H <sub>2</sub> sensor. <i>Acta Biomaterialia</i> , 2016, 36, 361-368.	4.1	46
64	Spectroelectrochemical studies of metal deposition and stripping and of specific adsorption on mercury-platinum optically transparent electrodes. <i>Analytical Chemistry</i> , 1972, 44, 1972-1978.	3.2	44
65	Chemical Cross-Linking of a Redox Mediator Thionin for Electrocatalytic Oxidation of Reduced $\beta$ -Nicotinamide Adenine Dinucleotide. <i>Analytical Letters</i> , 1991, 24, 1453-1469.	1.0	44
66	Peer Reviewed: Pushing Down the Limits of Detection: Molecular Needles in a Haystack. <i>Analytical Chemistry</i> , 1997, 69, 544A-549A.	3.2	43
67	Rotating disk electrode amperometric detection for a bead-based immunoassay. <i>Journal of Electroanalytical Chemistry</i> , 1999, 468, 2-8.	1.9	42
68	Unlimited-Volume Electrokinetic Stacking Injection in Sweeping Capillary Electrophoresis Using a Cationic Surfactant. <i>Analytical Chemistry</i> , 2006, 78, 6035-6042.	3.2	42
69	Spectroelectrochemical Sensing Based on Multimode Selectivity Simultaneously Achievable in a Single Device. 4. Sensing with Poly(vinyl alcohol)-Polyelectrolyte Blend Modified Optically Transparent Electrodes. <i>Analytical Chemistry</i> , 1999, 71, 4061-4068.	3.2	41
70	Fluorescence Spectroelectrochemical Sensor for 1-Hydroxypyrene. <i>Analytical Chemistry</i> , 2010, 82, 9743-9748.	3.2	41
71	Carbon Nanotube Thread Electrochemical Cell: Detection of Heavy Metals. <i>Analytical Chemistry</i> , 2017, 89, 9654-9663.	3.2	41
72	Bead-based immunoassays with microelectrode detection. <i>Analytical and Bioanalytical Chemistry</i> , 2004, 379, 358-367.	1.9	39

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73	Simultaneous Detection of Two Analytes Using a Spectroelectrochemical Sensor. <i>Analytical Chemistry</i> , 2010, 82, 1720-1726.	3.2	38
74	Absorption spectroscopy for the quantitative prediction of lanthanide concentrations in the 3LiClâ€“2CsCl eutectic at 723 K. <i>Analytical Methods</i> , 2016, 8, 7731-7738.	1.3	38
75	Spectroelectrochemical studies of stoichiometry, energetics, and kinetics of heme proteins: cytochrome c and cytochrome c oxidase. <i>Bioelectrochemistry</i> , 1974, 1, 389-406.	1.0	37
76	The effects of Copperâ–Zinc and Copperâ–Cadmium intermetallic compounds in different systems used for anodic stripping voltammetry. <i>Analytica Chimica Acta</i> , 1983, 154, 95-104.	2.6	36
77	Spectroelectrochemical Sensing Based on Multimode Selectivity Simultaneously Achievable in a Single Device. 6. Sensing with a Mediator. <i>Analytical Chemistry</i> , 2000, 72, 3461-3467.	3.2	36
78	Fluorogenic assay for Î²-glucuronidase using microchip-based capillary electrophoresis. <i>Biomedical Applications</i> , 2001, 762, 33-41.	1.7	36
79	Semi-Infinite Linear Diffusion Spectroelectrochemistry on an Aqueous Micro-Drop. <i>Analytical Chemistry</i> , 2011, 83, 4214-4219.	3.2	36
80	Highly Oxidizing Excited States of Re and Tc Complexes. <i>Journal of the American Chemical Society</i> , 2006, 128, 16494-16495.	6.6	35
81	Anodic Stripping Voltammetry of Heavy Metals on a Metal Catalyst Free Carbon Nanotube Electrode. <i>Electroanalysis</i> , 2012, 24, 1039-1046.	1.5	35
82	Luminescence-Based Spectroelectrochemical Sensor for [Tc(dmpe) <sub>3</sub> ] <sup>2+</sup> (dmpe = 1,2-bis(dimethylphosphino)ethane) within a Charge-Selective Polymer Film. <i>Analytical Chemistry</i> , 2011, 83, 1766-1772.	3.2	33
83	Electrochemistry and Spectroelectrochemistry of Europium(III) Chloride in 3LiClâ€“2KCl from 643 to 1123 K. <i>Analytical Chemistry</i> , 2013, 85, 9924-9931.	3.2	33
84	Bare and Polymer-Coated Indium Tin Oxide as Working Electrodes for Manganese Cathodic Stripping Voltammetry. <i>Analytical Chemistry</i> , 2016, 88, 4221-4228.	3.2	33
85	Tailoring Perfluorosulfonated Ionomer-Entrapped Solâ–Gel-Derived Silica Nanocomposite for Spectroelectrochemical Sensing of Re(DMPÉ) <sub>3</sub> <sup>+</sup> . <i>Langmuir</i> , 1999, 15, 767-773.	1.6	32
86	Spectroelectrochemical Sensing Based on Multimode Selectivity Simultaneously Achievable in a Single Device. 9. Incorporation of Planar Waveguide Technology. <i>Analytical Chemistry</i> , 2000, 72, 5549-5555.	3.2	32
87	Copper-Based Electrochemical Sensor with Palladium Electrode for Cathodic Stripping Voltammetry of Manganese. <i>Analytical Chemistry</i> , 2014, 86, 12070-12077.	3.2	32
88	Mercury-platinum optically transparent electrode. <i>Analytical Chemistry</i> , 1971, 43, 1075-1078.	3.2	30
89	Liquid Chromatography with Electrochemical Detection of Phenol and NADH for Enzyme Immunoassay. <i>Journal of Liquid Chromatography and Related Technologies</i> , 1983, 6, 2141-2156.	0.9	30
90	Parts per trillion detection of heavy metals in as-is tap water using carbon nanotube microelectrodes. <i>Analytica Chimica Acta</i> , 2021, 1155, 338353.	2.6	30

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91	Evaluation of the electrochemical characteristics of a poly(vinyl alcohol)/poly(acrylic acid) polymer blend. <i>Electrochimica Acta</i> , 1998, 43, 3497-3502.	2.6	28
92	Voltammetry of [Re(DMPE) <sub>3</sub> ] <sup>+</sup> at Ionomer-Entrapped Composite-Modified Electrodes. <i>Analytical Chemistry</i> , 1998, 70, 5230-5236.	3.2	28
93	Protein-aptamer binding studies using microchip affinity capillary electrophoresis. <i>Electrophoresis</i> , 2008, 29, 1415-1422.	1.3	28
94	Optically Transparent Thin-Film Electrode Chip for Spectroelectrochemical Sensing. <i>Analytical Chemistry</i> , 2017, 89, 7324-7332.	3.2	28
95	Blocking behavior of self-assembled monolayers on gold electrodes. <i>Journal of Solid State Electrochemistry</i> , 1997, 1, 148-154.	1.2	27
96	Small volume bead assay for ovalbumin with electrochemical detection. <i>Analyst, The</i> , 2001, 126, 337-341.	1.7	27
97	Microdrop analysis of a bead-based immunoassay. <i>Microchemical Journal</i> , 2003, 74, 267-276.	2.3	27
98	Spectroelectrochemical Sensing Based on Multimode Selectivity Simultaneously Achievable in a Single Device. 17. Improvement in Detection Limits Using Ultrathin Perfluorosulfonated Ionomer Films in Conjunction with Continuous Sample Flow. <i>Analytical Chemistry</i> , 2004, 76, 3139-3144.	3.2	27
99	A system for characterizing Mg corrosion in aqueous solutions using electrochemical sensors and impedance spectroscopy. <i>Acta Biomaterialia</i> , 2013, 9, 9211-9219.	4.1	27
100	Cyclic voltammetric, fluorescence and biological analysis of purified aeruginosin A, a secreted red pigment of <i>Pseudomonas aeruginosa</i> PAO1. <i>Microbiology (United Kingdom)</i> , 2013, 159, 1736-1747.	0.7	27
101	Optically transparent thin-layer electrochemical flow cell for liquid chromatography. <i>Analytical Chemistry</i> , 1980, 52, 1542-1544.	3.2	26
102	Thin-layer Spectroelectrochemistry on an Aqueous Microdrop. <i>Electroanalysis</i> , 2012, 24, 1065-1070.	1.5	26
103	Characterization and performance of injection molded poly(methylmethacrylate) microchips for capillary electrophoresis. <i>Journal of Chromatography A</i> , 2007, 1154, 444-453.	1.8	25
104	Flow-injection analysis with electrochemical detection of reduced nicotinamide adenine dinucleotide using 2,6-dichloroindophenol as a redox coupling agent. <i>Analytical Biochemistry</i> , 1991, 192, 243-250.	1.1	24
105	Electron transfer through an immunoglobulin layer via an immobilized redox mediator. <i>Electroanalysis</i> , 1996, 8, 143-146.	1.5	24
106	Visual H <sub>2</sub> sensor for monitoring biodegradation of magnesium implants in vivo. <i>Acta Biomaterialia</i> , 2016, 45, 399-409.	4.1	24
107	Separation and Comparison of Fountain Pen Inks by Capillary Zone Electrophoresis. <i>Journal of Forensic Sciences</i> , 1997, 42, 1004-1011.	0.9	24
108	In vivo quantification of hydrogen gas concentration in bone marrow surrounding magnesium fracture fixation hardware using an electrochemical hydrogen gas sensor. <i>Acta Biomaterialia</i> , 2018, 73, 559-566.	4.1	23

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109	Preliminary spectrofluorochemical studies indicate a possible conformational change in horse heart cytochrome c upon reduction. <i>Journal of Colloid and Interface Science</i> , 1982, 86, 295-298.	5.0	22
110	Spectroelectrochemical Sensing Based on Multimode Selectivity Simultaneously Achievable in a Single Device. 5. Simulation of Sensor Response for Different Excitation Potential Waveforms. <i>Analytical Chemistry</i> , 2000, 72, 5567-5575.	3.2	22
111	Luminescence from the trans-Dioxotechnetium(V) Chromophore. <i>Journal of the American Chemical Society</i> , 2005, 127, 14978-14979.	6.6	22
112	Effects of elevated magnesium and substrate on neuronal numbers and neurite outgrowth of neural stem/progenitor cells in vitro. <i>Neuroscience Research</i> , 2014, 84, 72-78.	1.0	22
113	Monitoring Biodegradation of Magnesium Implants with Sensors. <i>Jom</i> , 2016, 68, 1204-1208.	0.9	22
114	In Vitro and in Vivo Evaluation of Multiphase Ultrahigh Ductility Mg-Li-Zn Alloys for Cardiovascular Stent Application. <i>ACS Biomaterials Science and Engineering</i> , 2018, 4, 919-932.	2.6	22
115	Spectroelectrochemical Sensing Based on Multimode Selectivity Simultaneously Achievable in a Single Device. 7. Sensing of Fe(CN) <sub>6</sub> <sup>4-</sup> . <i>Electroanalysis</i> , 2000, 12, 1356-1362.	1.5	21
116	Study of injection bias in a simple hydrodynamic injection in microchip CE. <i>Electrophoresis</i> , 2007, 28, 1564-1571.	1.3	21
117	Recent developments in electrochemical immunoassays and immunosensors. , 2008, , 115-143.		21
118	Comparison of the Effects of Biofouling on Voltammetric and Potentiometric Measurements. <i>Electroanalysis</i> , 2012, 24, 1732-1738.	1.5	21
119	Lab-on-a-Chip Sensor with Evaporated Bismuth Film Electrode for Anodic Stripping Voltammetry of Zinc. <i>Electroanalysis</i> , 2013, 25, 2586-2594.	1.5	21
120	Optically Transparent Carbon Nanotube Film Electrode for Thin Layer Spectroelectrochemistry. <i>Analytical Chemistry</i> , 2015, 87, 9687-9695.	3.2	21
121	Carbon nanofiber electrode array for the detection of lead. <i>Electrochemistry Communications</i> , 2016, 73, 89-93.	2.3	21
122	Determination of Manganese by Cathodic Stripping Voltammetry on a Microfabricated Platinum Thin-film Electrode. <i>Electroanalysis</i> , 2017, 29, 686-695.	1.5	21
123	Optical and electrochemical evaluation of colloidal Au nanoparticle-ITO hybrid optically transparent electrodes and their application to attenuated total reflectance spectroelectrochemistry. <i>Electrochimica Acta</i> , 2003, 48, 4291-4299.	2.6	20
124	Spectroelectrochemical Sensing Based on Multimode Selectivity Simultaneously Achievable in a Single Device. 20. Detection of Metal Ions in Different Oxidation States. <i>Analytical Chemistry</i> , 2007, 79, 5594-5600.	3.2	20
125	Frontal analysis in microchip CE: A simple and accurate method for determination of protein-DNA dissociation constant. <i>Electrophoresis</i> , 2007, 28, 837-842.	1.3	20
126	Separation of Aromatic Acids, DOPA, and Methyl-DOPA by Capillary Electrophoresis with Dendrimers as Buffer Additives. <i>Journal of Chromatographic Science</i> , 1998, 36, 146-154.	0.7	19



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127	Estimation of pKa values using microchip capillary electrophoresis and indirect fluorescence detection. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2005, 824, 201-205.	1.2	19
128	Rapid Prototyped Optically Transparent Thin-Layer Electrode Holder for Spectroelectrochemistry in Bench-Top Spectrophotometers. <i>Electroanalysis</i> , 2010, 22, 2162-2166.	1.5	19
129	Electronic and Molecular Structures of trans-Dioxotechnetium(V) Polypyridyl Complexes in the Solid State. <i>Inorganic Chemistry</i> , 2011, 50, 5815-5823.	1.9	19
130	Application of an oscillating-mirror rapid-scanning spectrometer to simultaneous multi-element microwave plasma emission spectrometry. <i>Analyst</i> , 1976, 101, 753.	1.7	18
131	Electrochemical Behavior of [Re(DMPE) <sub>3</sub> ] <sup>+</sup> , Where DMPE = 1,2-Bis(dimethylphosphino)ethane, at Perfluorosulfonated Ionomer-Modified Electrodes. <i>Analytical Chemistry</i> , 1997, 69, 4045-4050.	3.2	18
132	Spectroelectrochemical sensing: planar waveguides. <i>Electrochimica Acta</i> , 2003, 48, 3313-3323.	2.6	18
133	Simultaneous Multiselective Spectroelectrochemical Sensing of the Interaction between Protein and Its Ligand Using the Redox Dye Nile Blue as a Label. <i>Analytical Chemistry</i> , 2008, 80, 9642-9648.	3.2	18
134	Characterization of Partially Sulfonated Polystyrene-block-poly(ethylene-ran-butylene)-block-polystyrene Thin Films for Spectroelectrochemical Sensing. <i>Analytical Chemistry</i> , 2009, 81, 6756-6764.	3.2	18
135	Spectroelectrochemical Sensing of Pyrene Metabolites 1-Hydroxypyrene and 1-Hydroxypyrene-glucuronide. <i>Analytical Chemistry</i> , 2011, 83, 3725-3729.	3.2	18
136	Electrochemical Affinity Assays/Sensors: Brief History and Current Status. <i>Annual Review of Analytical Chemistry</i> , 2021, 14, 109-131.	2.8	18
137	spectro-electro-chemistry. <i>Analytical Chemistry</i> , 1978, 50, 390A-402A.	3.2	17
138	The analysis of fountain pen inks by capillary electrophoresis with ultraviolet/visible absorbance and laser-induced fluorescence detection. <i>Electrophoresis</i> , 1998, 19, 31-41.	1.3	17
139	Spectroscopic and Electrochemical Evaluation of a Perfluorosulfonated Ionomer and Its Gel as Preconcentrating Media for [Re(DMPE) <sub>3</sub> ] <sup>+</sup> , Where DMPE = 1,2-Bis(dimethylphosphino)ethane. <i>Analytical Chemistry</i> , 1998, 70, 4326-4332.	3.2	17
140	An Attenuated Total Reflectance Sensor for Copper: An Experiment for Analytical or Physical Chemistry. <i>Journal of Chemical Education</i> , 2004, 81, 1617.	1.1	17
141	On-line sample preconcentration by sweeping with dodecyltrimethylammonium bromide in capillary zone electrophoresis. <i>Journal of Chromatography A</i> , 2006, 1125, 263-269.	1.8	17
142	Spectroelectrochemical Sensing Based on Multimode Selectivity Simultaneously Achievable in a Single Device. 21. Selective Chemical Sensing Using Sulfonated Polystyrene-block-poly(ethylene-ran-butylene)block-polystyrene Thin Films. <i>Analytical Chemistry</i> , 2009, 81, 9599-9606.	3.2	17
143	Detection of Trace Zinc by an Electrochemical Microsensor based on Carbon Nanotube Threads. <i>Electroanalysis</i> , 2013, 25, 1599-1604.	1.5	17
144	Advances in H <sub>2</sub> sensors for bioanalytical applications. <i>TrAC - Trends in Analytical Chemistry</i> , 2016, 79, 269-275.	5.8	17

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145	Capillary enzyme immunoassay with electrochemical detection for determining indole-3-acetic acid in tomato embryos. <i>Fresenius' Journal of Analytical Chemistry</i> , 1999, 364, 170-174.	1.5	16
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