

Stephen G Weber

List of Publications by Year in descending order

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194
papers

4,636
citations

109137

35
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149479

56
g-index

200
all docs

200
docs citations

200
times ranked

4676
citing authors

#	ARTICLE	IF	CITATIONS
1	NRF2-regulation in brain health and disease: Implication of cerebral inflammation. <i>Neuropharmacology</i> , 2014, 79, 298-306.	2.0	311
2	Determination of binding constants by affinity capillary electrophoresis, electrospray ionization mass spectrometry and phase-distribution methods. <i>TrAC - Trends in Analytical Chemistry</i> , 2008, 27, 738-748.	5.8	130
3	Theoretical and practical limitations on the optimization of amperometric detectors. <i>Analytical Chemistry</i> , 1984, 56, 978-985.	3.2	128
4	Single-cell electroporation. <i>Current Opinion in Biotechnology</i> , 2003, 14, 29-34.	3.3	122
5	Characterization of Single-Cell Electroporation by Using Patch-Clamp and Fluorescence Microscopy. <i>Biophysical Journal</i> , 2000, 79, 1993-2001.	0.2	109
6	In Vivo Monitoring of Dopamine by Microdialysis with 1 min Temporal Resolution Using Online Capillary Liquid Chromatography with Electrochemical Detection. <i>Analytical Chemistry</i> , 2015, 87, 6088-6094.	3.2	95
7	Photocissable Hydrogel Synthesis via Rapid Photopolymerization of Novel PEG-Based Polymers in the Absence of Photoinitiators. <i>Journal of the American Chemical Society</i> , 1996, 118, 6235-6240.	6.6	93
8	Determination of Barbiturates by Solid-Phase Microextraction and Capillary Electrophoresis. <i>Analytical Chemistry</i> , 1997, 69, 1217-1222.	3.2	89
9	Single-cell electroporation. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 397, 3235-3248.	1.9	89
10	Electroporation of Single Cells and Tissues with an Electrolyte-filled Capillary. <i>Analytical Chemistry</i> , 2001, 73, 4469-4477.	3.2	87
11	Effect of Cell Size and Shape on Single-Cell Electroporation. <i>Analytical Chemistry</i> , 2007, 79, 3589-3596.	3.2	83
12	Alterations in glutathione and amino acid concentrations after hypoxia-ischemia in the immature rat brain. <i>Developmental Brain Research</i> , 2000, 125, 51-60.	2.1	70
13	Effect of Dexamethasone on Gliosis, Ischemia, and Dopamine Extraction during Microdialysis Sampling in Brain Tissue. <i>Analytical Chemistry</i> , 2011, 83, 7662-7667.	3.2	65
14	Stimulated Efflux of Amino Acids and Glutathione from Cultured Hippocampal Slices by Omission of Extracellular Calcium. <i>Journal of Biological Chemistry</i> , 2008, 283, 10347-10356.	1.6	64
15	Electrical double-layer models of ion-modified (ion-pair) reversed-phase liquid chromatography. <i>Journal of Chromatography A</i> , 1993, 656, 549-576.	1.8	63
16	The dependence of current on flow rate in thin-layer electrochemical detectors used in liquid chromatography. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1983, 145, 1-7.	0.3	59
17	Impact of microdialysis probes on vasculature and dopamine in the rat striatum: A combined fluorescence and voltammetric study. <i>Journal of Neuroscience Methods</i> , 2008, 174, 177-185.	1.3	59
18	Simultaneous Determination of Biogenic Monoamines in Rat Brain Dialysates Using Capillary High-Performance Liquid Chromatography with Photoluminescence Following Electron Transfer. <i>Analytical Chemistry</i> , 2006, 78, 1755-1760.	3.2	58

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19	In Vivo Monitoring of Serotonin in the Striatum of Freely Moving Rats with One Minute Temporal Resolution by Online Microdialysis—Capillary High-Performance Liquid Chromatography at Elevated Temperature and Pressure. <i>Analytical Chemistry</i> , 2013, 85, 9889-9897.	3.2	56
20	Electrochemical detection of peptides. <i>Analytical Chemistry</i> , 1989, 61, 2664-2668.	3.2	53
21	Monitoring Dopamine Responses to Potassium Ion and Nomifensine by in Vivo Microdialysis with Online Liquid Chromatography at One-Minute Resolution. <i>ACS Chemical Neuroscience</i> , 2017, 8, 329-338.	1.7	53
22	Capillary Ultrahigh Performance Liquid Chromatography with Elevated Temperature for Sub-One Minute Separations of Basal Serotonin in Submicroliter Brain Microdialysate Samples. <i>Analytical Chemistry</i> , 2010, 82, 9611-9616.	3.2	52
23	Protrusive growth and periodic contractile motion in surface-adhered vesicles induced by Ca ²⁺ -gradients. <i>Soft Matter</i> , 2010, 6, 268-272.	1.2	48
24	Microring electrode/optical waveguide: electrochemical characterization and application to electrogenerated chemiluminescence. <i>Analytical Chemistry</i> , 1990, 62, 1631-1636.	3.2	47
25	Enhanced Glutathione Efflux from Astrocytes in Culture by Low Extracellular Ca ²⁺ and Curcumin. <i>Neurochemical Research</i> , 2010, 35, 1231-1238.	1.6	46
26	Fabrication of Microchannel Structures in Fluorinated Ethylene Propylene. <i>Analytical Chemistry</i> , 2002, 74, 4566-4569.	3.2	41
27	Reductively Induced Dimerization of the Ligated Benzene in [Mn(I-6-C ₆ H ₆)(CO) ₃]+: Formation of the Initial C—C Bond by Anion/Cation Addition. <i>Journal of the American Chemical Society</i> , 1996, 118, 4190-4191.	6.6	40
28	Detection Limits and Selectivity in Electrochemical Detectors. <i>Analytical Chemistry</i> , 1988, 60, 903A-913A.	3.2	39
29	The Nrf2-inducible antioxidant defense in astrocytes can be both up- and down-regulated by activated microglia: Involvement of p38 MAPK. <i>Glia</i> , 2011, 59, 785-799.	2.5	39
30	Fluorous media for extraction and transport. <i>Journal of Chromatography A</i> , 2010, 1217, 2287-2295.	1.8	38
31	Aptamer-functionalized neural recording electrodes for the direct measurement of cocaine in vivo. <i>Journal of Materials Chemistry B</i> , 2017, 5, 2445-2458.	2.9	38
32	Influence of tyrosine on the dual electrode electrochemical detection of copper(II)-peptide complexes. <i>Analytical Chemistry</i> , 1992, 64, 2897-2903.	3.2	37
33	Extraction of Pyridines into Fluorous Solvents Based on Hydrogen Bond Complex Formation with Carboxylic Acid Receptors. <i>Analytical Chemistry</i> , 2007, 79, 3117-3125.	3.2	36
34	High-Throughput Method for Lipophilicity Measurement. <i>Analytical Chemistry</i> , 2007, 79, 1043-1049.	3.2	36
35	Optical control over Pb ²⁺ binding to a crown ether-containing chromene. <i>Chemical Communications</i> , 1997, , 287-288.	2.2	35
36	Glutathione Efflux Induced by NMDA and Kainate. <i>Journal of Neurochemistry</i> , 2002, 73, 1566-1572.	2.1	35

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37	Optimization for speed and sensitivity in capillary high performance liquid chromatography. The importance of column diameter in online monitoring of serotonin by microdialysis. <i>Journal of Chromatography A</i> , 2012, 1251, 54-62.	1.8	35
38	Net efflux of cysteine, glutathione and related metabolites from rat hippocampal slices during oxygen/glucose deprivation: dependence on I^{β} -glutamyl transpeptidase. <i>Brain Research</i> , 1999, 815, 81-88.	1.1	33
39	Electrochemical Investigation of Pb^{2+} Binding and Transport through a Polymerized Crystalline Colloidal Array Hydrogel Containing Benzo-18-crown-6. <i>Analytical Chemistry</i> , 2005, 77, 185-192.	3.2	33
40	Transport of Organic Solutes through Amorphous Teflon AF Films. <i>Journal of the American Chemical Society</i> , 2005, 127, 15112-15119.	6.6	33
41	Rapid Catalyst Screening by a Continuous-Flow Microreactor Interfaced with Ultra-High-Pressure Liquid Chromatography. <i>Journal of Organic Chemistry</i> , 2010, 75, 5619-5626.	1.7	32
42	Bivalent metal ion-dependent photochromism and photofluorochromism from a spiroquinoxazine. <i>Journal of the Chemical Society Chemical Communications</i> , 1995, , 2091.	2.0	30
43	Optical Control of Divalent Metal Ion Binding to a Photochromic Catechol: A Photoreversal of Tightly Bound Zn^{2+} . <i>Analytical Chemistry</i> , 1999, 71, 1146-1151.	3.2	29
44	Luminescence targeting and imaging using a nanoscale generation 3 dendrimer in an in vivo colorectal metastatic rat model. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2011, 7, 249-258.	1.7	29
45	Detection of bioactive oligopeptides after microbore HPLC with electrochemical detection of their Cu(II) complexes: effect of operating parameters on sensitivity and selectivity. <i>Analytical Chemistry</i> , 1995, 67, 3596-3604.	3.2	28
46	Direct Observation of Chloride Transfer across the Water/Organic Interface and the Transfer of Long-Chain Dicarboxylates. <i>The Journal of Physical Chemistry</i> , 1996, 100, 14714-14720.	2.9	28
47	Temperature-assisted on-column solute focusing: A general method to reduce pre-column dispersion in capillary high performance liquid chromatography. <i>Journal of Chromatography A</i> , 2014, 1354, 65-74.	1.8	28
48	Enhanced Extraction of Phenobarbital from Serum with a Designed Artificial Receptor. <i>Analytical Chemistry</i> , 1994, 66, 2397-2403.	3.2	27
49	Numerical Calculations of Single-Cell Electroporation with an Electrolyte-Filled Capillary. <i>Biophysical Journal</i> , 2007, 92, 3696-3705.	0.2	27
50	Quantitative evaluation of models for solvent-based, on-column focusing in liquid chromatography. <i>Journal of Chromatography A</i> , 2015, 1409, 116-124.	1.8	27
51	Improving the Sensitivity, Resolution, and Peak Capacity of Gradient Elution in Capillary Liquid Chromatography with Large-Volume Injections by Using Temperature-Assisted On-Column Solute Focusing. <i>Analytical Chemistry</i> , 2016, 88, 5112-5121.	3.2	27
52	Methods of Measuring Enzyme Activity Ex Vivo and In Vivo. <i>Annual Review of Analytical Chemistry</i> , 2018, 11, 509-533.	2.8	27
53	Capillary-Based, Serial-Loading, Parallel Microreactor for Catalyst Screening. <i>Analytical Chemistry</i> , 2006, 78, 1972-1979.	3.2	26
54	Determination of I^{η} -Potential in Rat Organotypic Hippocampal Cultures. <i>Biophysical Journal</i> , 2008, 94, 4561-4569.	0.2	26

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55	Electrochemical detection of dipeptides and dipeptide amides. <i>Journal of Chromatography A</i> , 1990, 515, 451-457.	1.8	25
56	Chromatographic Detection of Nitroaromatic and Nitramine Compounds by Electrochemical Reduction Combined with Photoluminescence following Electron Transfer. <i>Analytical Chemistry</i> , 2000, 72, 4928-4933.	3.2	25
57	Electrochemical and optical detectors for capillary and chip separations. <i>TrAC - Trends in Analytical Chemistry</i> , 2007, 26, 68-79.	5.8	25
58	Differences in Reperfusion-Induced Mitochondrial Oxidative Stress and Cell Death Between Hippocampal CA1 and CA3 Subfields Are Due to the Mitochondrial Thioredoxin System. <i>Antioxidants and Redox Signaling</i> , 2017, 27, 534-549.	2.5	25
59	Sensitivity and selectivity of the electrochemical detection of the copper(II) complexes of bioactive peptides, and comparison to model studies by rotating ring-disc electrode. <i>Journal of Chromatography A</i> , 1995, 691, 301-315.	1.8	24
60	Teflon AF Materials. <i>Topics in Current Chemistry</i> , 2011, 308, 307-337.	4.0	24
61	Temperature-based on-column solute focusing in capillary liquid chromatography reduces peak broadening from pre-column dispersion and volume overload when used alone or with solvent-based focusing. <i>Journal of Chromatography A</i> , 2015, 1405, 133-139.	1.8	24
62	Artificial Receptor-Facilitated Solid-Phase Microextraction of Barbiturates. <i>Analytical Chemistry</i> , 1999, 71, 2146-2151.	3.2	23
63	How Fluorous Is Poly(2,2-bis(trifluoromethyl)-4,5-difluoro-1,3-dioxane-co-tetrafluoroethylene) (Teflon)? <i>Journal of Chromatography A</i> , 2011, 1238, 107-114.	6.6	23
64	NMDA-receptor mediated efflux of N-acetylaspartate: physiological and/or pathological importance?. <i>Neurochemistry International</i> , 2004, 45, 1195-1204.	1.9	23
65	Scanning Electroporation of Selected Areas of Adherent Cell Cultures. <i>Analytical Chemistry</i> , 2007, 79, 4410-4418.	3.2	23
66	Lipophilicity screening of novel drug-like compounds and comparison to clogP. <i>Journal of Chromatography A</i> , 2012, 1258, 161-167.	1.8	23
67	An in Situ Measurement of Extracellular Cysteamine, Homocysteine, and Cysteine Concentrations in Organotypic Hippocampal Slice Cultures by Integration of Electroosmotic Sampling and Microfluidic Analysis. <i>Analytical Chemistry</i> , 2013, 85, 3095-3103.	3.2	23
68	On-Column Dimethylation with Capillary Liquid Chromatography-Tandem Mass Spectrometry for Online Determination of Neuropeptides in Rat Brain Microdialysate. <i>Analytical Chemistry</i> , 2018, 90, 4561-4568.	3.2	23
69	Rotating Ring-Disk Electrode Study of Copper(II) Complexes of the Model Peptides Triglycine, Tetraglycine, and Pentaglycine. <i>Analytical Chemistry</i> , 1995, 67, 541-551.	3.2	22
70	Chromatographic Detection Using Tris(2,2'-bipyridyl)ruthenium(III) as a Fluorogenic Electron-Transfer Reagent. <i>Analytical Chemistry</i> , 1999, 71, 1504-1512.	3.2	22
71	Minimizing Tissue Damage in Electroosmotic Sampling. <i>Analytical Chemistry</i> , 2010, 82, 6370-6376.	3.2	22
72	Iontophoresis From a Micropipet into a Porous Medium Depends on the ζ -Potential of the Medium. <i>Analytical Chemistry</i> , 2012, 84, 2179-2187.	3.2	22

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73	Photoelectroanalytical chemistry: possible interferences in serum and the selective detection of tris(2,2'-bipyridine)ruthenium(II) in the presence of interferents.. <i>Clinical Chemistry</i> , 1983, 29, 1665-1672.	1.5	21
74	Voltammetry in static and flowing solutions with a large-amplitude sine wave potential. <i>Electroanalysis</i> , 1992, 4, 429-437.	1.5	21
75	Use of Tris(2,2'-bipyridine)osmium as a Photoluminescence-Following Electron-Transfer Reagent for Postcolumn Detection in Capillary High-Performance Liquid Chromatography. <i>Analytical Chemistry</i> , 2006, 78, 1761-1768.	3.2	21
76	Molecular and Ionic Hydrogen Bond Formation in Fluorous Solvents. <i>Journal of Physical Chemistry B</i> , 2009, 113, 149-158.	1.2	21
77	Synthesis and Characterization of a Hydrogel with Controllable Electroosmosis: A Potential Brain Tissue Surrogate for Electrokinetic Transport. <i>Langmuir</i> , 2011, 27, 13635-13642.	1.6	21
78	Detection limits and selectivity in electrochemical detectors. <i>Analytical Chemistry</i> , 1988, 60, 903A-913A.	3.2	21
79	Liquid Chromatographic Determination of Acidic β -Aspartyl and β -Glutamyl Peptides in Extracts of Rat Brain. <i>Analytical Biochemistry</i> , 1994, 217, 48-61.	1.1	20
80	Determination of the pharmaceutical peptide TP9201 by post-column reaction with copper(II) followed by electrochemical detection. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 1995, 14, 155-164.	1.4	20
81	Electrochemical studies on molecular recognition of anions: Complex formation between xylylenyl bis-iminoimidazolium and dicarboxylates in nitrobenzene and water. <i>Journal of Electroanalytical Chemistry</i> , 1998, 441, 33-37.	1.9	20
82	Integration of a Precolumn Fluorogenic Reaction, Separation, and Detection of Reduced Glutathione. <i>Analytical Chemistry</i> , 2010, 82, 7267-7273.	3.2	20
83	Integrated Electroosmotic Perfusion of Tissue with Online Microfluidic Analysis to Track the Metabolism of Cystamine, Pantethine, and Coenzyme A. <i>Analytical Chemistry</i> , 2013, 85, 12020-12027.	3.2	20
84	Electroosmotic Push-Pull Perfusion: Description and Application to Qualitative Analysis of the Hydrolysis of Exogenous Galanin in Organotypic Hippocampal Slice Cultures. <i>ACS Chemical Neuroscience</i> , 2013, 4, 838-848.	1.7	20
85	TrkB-mediated activation of the phosphatidylinositol 3-kinase/Akt cascade reduces the damage inflicted by oxygen-glucose deprivation in area CA3 of the rat hippocampus. <i>European Journal of Neuroscience</i> , 2018, 47, 1096-1109.	1.2	20
86	Electrochemical detection of oligopeptides through the precolumn formation of biuret complexes. <i>Journal of Chromatography A</i> , 1991, 542, 345-350.	1.8	19
87	Investigations of prussian blue films using surface plasmon resonance. <i>Sensors and Actuators B: Chemical</i> , 2001, 72, 1-10.	4.0	19
88	Properties and Transport Behavior of Perfluorotripentylamine (FC-70)-Doped Amorphous Teflon AF 2400 Films. <i>Journal of the American Chemical Society</i> , 2010, 132, 17867-17879.	6.6	19
89	Photoelectroanalytical chemistry: electrochemical detection of a photochemically active species, tris(2,2'-bipyridine)ruthenium(II). <i>Analytical Chemistry</i> , 1985, 57, 1746-1751.	3.2	18
90	Direct Access and Control of the Intracellular Solution Environment in Single Cells. <i>Analytical Chemistry</i> , 2009, 81, 1810-1818.	3.2	18

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91	Determination of $\hat{\eta}$ -Potential and Tortuosity in Rat Organotypic Hippocampal Cultures from Electroosmotic Velocity Measurements under Feedback Control. <i>Analytical Chemistry</i> , 2009, 81, 3001-3007.	3.2	18
92	Electroosmotic Sampling. Application to Determination of Ectopeptidase Activity in Organotypic Hippocampal Slice Cultures. <i>Analytical Chemistry</i> , 2010, 82, 6377-6383.	3.2	18
93	Carbon fiber/epoxy composite ring-disk electrode: Fabrication, characterization and application to electrochemical detection in capillary high performance liquid chromatography. <i>Journal of Electroanalytical Chemistry</i> , 2009, 630, 75-80.	1.9	17
94	A simple method for measuring organotypic tissue slice culture thickness. <i>Journal of Neuroscience Methods</i> , 2011, 199, 78-81.	1.3	17
95	Electrochemical characterization of a microcellular carbon foam/epoxy composite electrode. <i>Analytical Chemistry</i> , 1990, 62, 1000-1003.	3.2	16
96	Effect of Peptide Primary Sequence on Biuret Complex Formation and Properties. <i>Electroanalysis</i> , 1999, 11, 331-336.	1.5	16
97	Simple method for the quantitative examination of extra column band broadening in microchromatographic systems. <i>Journal of Chromatography A</i> , 2003, 986, 247-251.	1.8	16
98	The rotating ring-disk electrochemistry of the copper(II) complex of thyrotropin-releasing hormone. <i>Journal of Electroanalytical Chemistry</i> , 2007, 600, 325-334.	1.9	16
99	Single-Cell Transfection by Electroporation Using an Electrolyte/Plasmid-Filled Capillary. <i>Analytical Chemistry</i> , 2009, 81, 4060-4067.	3.2	16
100	Electroosmotic perfusion of tissue: sampling the extracellular space and quantitative assessment of membrane-bound enzyme activity in organotypic hippocampal slice cultures. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 6455-6468.	1.9	16
101	Generation of Focused Electric Field Patterns at Dielectric Surfaces. <i>Analytical Chemistry</i> , 2005, 77, 4667-4672.	3.2	15
102	Optimized Real-Time Monitoring of Glutathione Redox Status in Single Pyramidal Neurons in Organotypic Hippocampal Slices during Oxygen-Glucose Deprivation and Reperfusion. <i>ACS Chemical Neuroscience</i> , 2015, 6, 1838-1848.	1.7	15
103	Electrokinetic Convection-Enhanced Delivery of Solutes to the Brain. <i>ACS Chemical Neuroscience</i> , 2020, 11, 2085-2093.	1.7	15
104	Chromatographic method for the determination of conditional equilibrium constants for the carbamate formation reaction from amino acids and peptides in aqueous solution. <i>Journal of the American Chemical Society</i> , 1993, 115, 7343-7350.	6.6	14
105	Separation of Neutral Compounds in Nonaqueous Solvents by Capillary Zone Electrophoresis. <i>Journal of the American Chemical Society</i> , 2000, 122, 3787-3788.	6.6	14
106	Techniques for neuropeptide determination. <i>TrAC - Trends in Analytical Chemistry</i> , 2003, 22, 522-527.	5.8	13
107	Analysis of the Performance of a Flow Reactor for Use with Microcolumn HPLC. <i>Analytical Chemistry</i> , 2004, 76, 639-645.	3.2	13
108	Preparation and assessment of fluoros supported liquid membranes based on porous alumina. <i>Journal of Membrane Science</i> , 2009, 345, 170-176.	4.1	13

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109	Morphology and free volume of nanocomposite Teflon AF 2400 films and their relationship to transport behavior. <i>Journal of Membrane Science</i> , 2013, 443, 115-123.	4.1	13
110	Higher Aminopeptidase Activity Determined by Electroosmotic Push/Pull Perfusion Contributes to Selective Vulnerability of the Hippocampal CA1 Region to Oxygen Glucose Deprivation. <i>ACS Chemical Neuroscience</i> , 2018, 9, 535-544.	1.7	13
111	Formation of .mu.-cyanobis[pentacyanoruthenate](6-) by chemical oxidation, electrochemical oxidation and photooxidation of hexacyanoruthenate(4-). <i>Inorganic Chemistry</i> , 1987, 26, 1555-1558.	1.9	12
112	Miniaturized Electrochemical Flow Cells. <i>Analytical Chemistry</i> , 2003, 75, 1031-1036.	3.2	12
113	Binding of copper(II) to thyrotropin-releasing hormone (TRH) and its analogs. <i>Inorganica Chimica Acta</i> , 2005, 358, 2933-2942.	1.2	12
114	Nanocomposite Teflon AF 2400 Films as Tunable Platforms for Selective Transport. <i>Analytical Chemistry</i> , 2012, 84, 9920-9927.	3.2	12
115	Temperature-assisted solute focusing with sequential trap/release zones in isocratic and gradient capillary liquid chromatography: Simulation and experiment. <i>Journal of Chromatography A</i> , 2016, 1474, 95-108.	1.8	12
116	Optimization of a modified electrode for the sensitive and selective detection of \pm -dipeptides. <i>Journal of Chromatography A</i> , 1995, 705, 171-184.	1.8	11
117	Solvatochromic Study of Poly(vinyl chloride) Plasticizers and Their Solutions in Chloroform: Application to Phenobarbital Partitioning and Molecular Recognition of Phenobarbital. <i>Analytical Chemistry</i> , 1997, 69, 3490-3495.	3.2	11
118	Controlling the Electrochemically Active Area of Carbon Fiber Microelectrodes by the Electrodeposition and Selective Removal of an Insulating Photoresist. <i>Analytical Chemistry</i> , 2006, 78, 5165-5171.	3.2	11
119	Experimentally Determining the iR Drop in Solution at Carbon Fiber Microelectrodes with Current Interruption and Application to Single-Cell Electroporation. <i>Analytical Chemistry</i> , 2007, 79, 3771-3778.	3.2	11
120	Extraction and Metalation of Porphyrins in Fluorous Liquids with Carboxylic Acids and Metal Salts. <i>Journal of Physical Chemistry B</i> , 2009, 113, 7449-7456.	1.2	11
121	Synthesis, characterization, and applications of fluororous resorcin[4]arenes. <i>New Journal of Chemistry</i> , 2010, 34, 2732.	1.4	11
122	Assessment of Tissue Viability Following Electroosmotic Push/Pull Perfusion from Organotypic Hippocampal Slice Cultures. <i>ACS Chemical Neuroscience</i> , 2013, 4, 849-857.	1.7	11
123	High temporal resolution delayed analysis of clinical microdialysate streams. <i>Analyst, The</i> , 2018, 143, 715-724.	1.7	11
124	Signal-to-noise enhancement using carbon fiber electrodes in the photoelectroanalytical detection of tris(2,2'-bipyridine)ruthenium(II). <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1986, 208, 77-84.	0.3	10
125	Reversed-phase HPLC with UV detection for the determination of N-acetylaspartate and creatine. <i>Analytical Biochemistry</i> , 2005, 343, 179-182.	1.1	10
126	Influence of Chemical Kinetics on Postcolumn Reaction in a Capillary Taylor Reactor with Catechol Analytes and Photoluminescence Following Electron Transfer. <i>Analytical Chemistry</i> , 2005, 77, 974-982.	3.2	10

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127	Simultaneous Maximization of Cell Permeabilization and Viability in Single-Cell Electroporation Using an Electrolyte-Filled Capillary. <i>Analytical Chemistry</i> , 2007, 79, 161-167.	3.2	10
128	Electrokinetic infusions into hydrogels and brain tissue: Control of direction and magnitude of solute delivery. <i>Journal of Neuroscience Methods</i> , 2019, 311, 76-82.	1.3	10
129	Comparison of anion-exchange and ion-modified reversed-phase liquid chromatography for the determination of S-sulfocysteine. <i>Biomedical Applications</i> , 1998, 705, 251-259.	1.7	9
130	Nonaqueous affinity capillary electrophoresis investigation of small molecule molecular recognition. <i>Electrophoresis</i> , 2002, 23, 431.	1.3	9
131	Measurement of Association and Dissociation Rate Constants for Lead(II)/18-Crown-6 Using Square Wave Voltammetry at a Glassy Carbon Mercury Film Electrode. <i>Analytical Chemistry</i> , 2003, 75, 6560-6565.	3.2	9
132	A Screening Method for Chiral Selectors that Does Not Require Covalent Attachment. <i>Journal of the American Chemical Society</i> , 2006, 128, 2208-2209.	6.6	9
133	S-Sulfo-Cysteine is an Endogenous Amino Acid in Neonatal Rat Brain but an Unlikely Mediator of Cysteine Neurotoxicity. <i>Neurochemical Research</i> , 2008, 33, 301-307.	1.6	9
134	Synthesis of deep-cavity fluororous calix[4]arenes as molecular recognition scaffolds. <i>Beilstein Journal of Organic Chemistry</i> , 2008, 4, 36.	1.3	9
135	Graphical Method for Choosing Optimized Conditions Given a Pump Pressure and a Particle Diameter in Liquid Chromatography. <i>Analytical Chemistry</i> , 2016, 88, 11742-11749.	3.2	9
136	Electroosmotic Perfusion—Microdialysis Probe Created by Direct Laser Writing for Quantitative Assessment of Leucine Enkephalin Hydrolysis by Insulin-Regulated Aminopeptidase in Vivo. <i>Analytical Chemistry</i> , 2020, 92, 14558-14567.	3.2	9
137	Electrochemical detection of dipeptides with selectivity against amino acids. <i>Journal of Chromatography A</i> , 1993, 638, 1-8.	1.8	8
138	Molecular recognition of phenobarbital in plasticizers equilibrium investigations on the solubility of the barbiturate artificial receptor and its binding to phenobarbital in plasticizers. <i>Journal of Chromatography A</i> , 1996, 722, 47-57.	1.8	8
139	Capillary zone electrophoresis in laboratory-made fluorinated ethylene propylene capillaries. <i>Journal of Chromatography A</i> , 2002, 972, 283-287.	1.8	8
140	Searching for Mechanisms of N-Methyl-d-Aspartate-Induced Glutathione Efflux in Organotypic Hippocampal Cultures. <i>Neurochemical Research</i> , 2003, 28, 281-291.	1.6	8
141	High-Throughput Phase-Distribution Method to Determine Drug-Cyclodextrin Binding Constants. <i>Journal of Pharmaceutical Sciences</i> , 2009, 98, 229-238.	1.6	8
142	Control of the Release of Freely Diffusing Molecules in Single-Cell Electroporation. <i>Analytical Chemistry</i> , 2009, 81, 8001-8008.	3.2	8
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