

Robert T Kennedy

List of Publications by Year in descending order

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316
papers

20,509
citations

7096

78
h-index

16650

123
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329
all docs

329
docs citations

329
times ranked

17571
citing authors

#	ARTICLE	IF	CITATIONS
1	Temporally resolved catecholamine spikes correspond to single vesicle release from individual chromaffin cells.. Proceedings of the National Academy of Sciences of the United States of America, 1991, 88, 10754-10758.	7.1	833
2	Mesolimbic dopamine signals the value of work. Nature Neuroscience, 2016, 19, 117-126.	14.8	644
3	Dissociable dopamine dynamics for learning and motivation. Nature, 2019, 570, 65-70.	27.8	487
4	Detection and Imaging of Zinc Secretion from Pancreatic β -Cells Using a New Fluorescent Zinc Indicator. Journal of the American Chemical Society, 2002, 124, 776-778.	13.7	395
5	Review of recent advances in analytical techniques for the determination of neurotransmitters. Analytica Chimica Acta, 2009, 653, 1-22.	5.4	328
6	Microcolumn separations and the analysis of single cells. Science, 1989, 246, 57-63.	12.6	315
7	Preparation and evaluation of packed capillary liquid chromatography columns with inner diameters from 20 to 50 micrometers. Analytical Chemistry, 1989, 61, 1128-1135.	6.5	307
8	Capillary Electrophoresis. Analytical Chemistry, 1994, 66, 280-314.	6.5	298
9	Aptamers as Ligands in Affinity Probe Capillary Electrophoresis. Analytical Chemistry, 1998, 70, 4540-4545.	6.5	273
10	Designed Signaling Aptamers that Transduce Molecular Recognition to Changes in Fluorescence Intensity. Journal of the American Chemical Society, 2000, 122, 2469-2473.	13.7	272
11	Up-regulation of GLT1 expression increases glutamate uptake and attenuates the Huntington's disease phenotype in the R6/2 mouse. Neuroscience, 2008, 153, 329-337.	2.3	254
12	In Vivo Measurements of Neurotransmitters by Microdialysis Sampling. Analytical Chemistry, 2006, 78, 1391-1399.	6.5	251
13	Total insulin and IGF-I resistance in pancreatic β cells causes overt diabetes. Nature Genetics, 2006, 38, 583-588.	21.4	239
14	Microfluidic Chip for Continuous Monitoring of Hormone Secretion from Live Cells Using an Electrophoresis-Based Immunoassay. Analytical Chemistry, 2003, 75, 4711-4717.	6.5	216
15	Disruption of leptin receptor expression in the pancreas directly affects β cell growth and function in mice. Journal of Clinical Investigation, 2007, 117, 2860-2868.	8.2	211
16	Rapid immunoassays using capillary electrophoresis with fluorescence detection. Analytical Chemistry, 1993, 65, 3161-3165.	6.5	208
17	In Vivo Neurochemical Monitoring Using Benzoyl Chloride Derivatization and Liquid Chromatography-Mass Spectrometry. Analytical Chemistry, 2012, 84, 412-419.	6.5	204
18	Insulin-stimulated Insulin Secretion in Single Pancreatic Beta Cells. Journal of Biological Chemistry, 1999, 274, 6360-6365.	3.4	194

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19	Reducing Time and Increasing Sensitivity in Sample Preparation for Adherent Mammalian Cell Metabolomics. <i>Analytical Chemistry</i> , 2011, 83, 3406-3414.	6.5	189
20	Benzoyl chloride derivatization with liquid chromatography-mass spectrometry for targeted metabolomics of neurochemicals in biological samples. <i>Journal of Chromatography A</i> , 2016, 1446, 78-90.	3.7	186
21	Retention and Separation of Adenosine and Analogues by Affinity Chromatography with an Aptamer Stationary Phase. <i>Analytical Chemistry</i> , 2001, 73, 5415-5421.	6.5	182
22	High Temporal Resolution Monitoring of Glutamate and Aspartate in Vivo Using Microdialysis On-Line with Capillary Electrophoresis with Laser-Induced Fluorescence Detection. <i>Analytical Chemistry</i> , 1997, 69, 4560-4565.	6.5	167
23	In vivomonitoring of amine neurotransmitters using microdialysis with on-line capillary electrophoresis. <i>Electrophoresis</i> , 2001, 22, 3668-3676.	2.4	155
24	Dynamic Observation of Dopamine Autoreceptor Effects in Rat Striatal Slices. <i>Journal of Neurochemistry</i> , 1992, 59, 449-455.	3.9	151
25	Profiling Targets of the Irreversible Palmitoylation Inhibitor 2-Bromopalmitate. <i>ACS Chemical Biology</i> , 2013, 8, 1912-1917.	3.4	151
26	Roles of Insulin Receptor Substrate-1, Phosphatidylinositol 3-Kinase, and Release of Intracellular Ca ²⁺ Stores in Insulin-stimulated Insulin Secretion in β -Cells. <i>Journal of Biological Chemistry</i> , 2000, 275, 22331-22338.	3.4	149
27	Identification, quantitation, and characterization of biomolecules by capillary electrophoretic analysis of binding interactions. <i>Electrophoresis</i> , 1999, 20, 3122-3133.	2.4	148
28	Amperometric monitoring of chemical secretions from individual pancreatic .beta.-cells. <i>Analytical Chemistry</i> , 1993, 65, 1882-1887.	6.5	144
29	Quantitative Monitoring of Insulin Secretion from Single Islets of Langerhans in Parallel on a Microfluidic Chip. <i>Analytical Chemistry</i> , 2009, 81, 3119-3127.	6.5	143
30	A Single Mutation in the Nonamyloidogenic Region of Islet Amyloid Polypeptide Greatly Reduces Toxicity. <i>Biochemistry</i> , 2008, 47, 12680-12688.	2.5	142
31	LXR ² Is Required for Adipocyte Growth, Glucose Homeostasis, and β Cell Function. <i>Journal of Biological Chemistry</i> , 2005, 280, 23024-23031.	3.4	138
32	Capillary LC-MS ² at the Attomole Level for Monitoring and Discovering Endogenous Peptides in Microdialysis Samples Collected in Vivo. <i>Analytical Chemistry</i> , 2001, 73, 5005-5014.	6.5	136
33	Quantitative in Vivo Monitoring of Primary Amines in Rat Caudate Nucleus Using Microdialysis Coupled by a Flow-Gated Interface to Capillary Electrophoresis with Laser-Induced Fluorescence Detection. <i>Analytical Chemistry</i> , 1996, 68, 2790-2797.	6.5	134
34	Monitoring Dopamine in Vivo by Microdialysis Sampling and On-Line CE-Laser-Induced Fluorescence. <i>Analytical Chemistry</i> , 2006, 78, 6717-6725.	6.5	134
35	Perfusion and chemical monitoring of living cells on a microfluidic chip. <i>Lab on A Chip</i> , 2005, 5, 56.	6.0	132
36	Vesicular Quantal Size Measured by Amperometry at Chromaffin, Mast, Pheochromocytoma, and Pancreatic β -Cells. <i>Journal of Neurochemistry</i> , 1996, 66, 1914-1923.	3.9	123

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37	Capillary electrophoresis-based immunoassay to determine insulin content and insulin secretion from single islets of Langerhans. <i>Analytical Chemistry</i> , 1995, 67, 924-929.	6.5	116
38	Extracellular pH Is Required for Rapid Release of Insulin from Zn ²⁺ Insulin Precipitates in β -Cell Secretory Vesicles during Exocytosis. <i>Journal of the American Chemical Society</i> , 1996, 118, 1795-1796.	13.7	116
39	GABAB Receptors Mediate Motility Signals for Migrating Embryonic Cortical Cells. <i>Cerebral Cortex</i> , 2001, 11, 744-753.	2.9	116
40	Quantitative Analysis of Receptors for Adenosine Nucleotides Obtained via In Vitro Selection from a Library Incorporating a Cationic Nucleotide Analog. <i>Journal of the American Chemical Society</i> , 1999, 121, 9781-9789.	13.7	115
41	Recent advances in protein analysis by capillary and microchip electrophoresis. <i>Analyst, The</i> , 2017, 142, 1847-1866.	3.5	115
42	In vivo neurochemical monitoring by microdialysis and capillary separations. <i>Current Opinion in Chemical Biology</i> , 2002, 6, 659-665.	6.1	114
43	Metabolomic Analysis of Eukaryotic Tissue and Prokaryotes Using Negative Mode MALDI Time-of-Flight Mass Spectrometry. <i>Analytical Chemistry</i> , 2005, 77, 2201-2209.	6.5	113
44	Correlated Oscillations in Glucose Consumption, Oxygen Consumption, and Intracellular Free Ca ²⁺ in Single Islets of Langerhans. <i>Journal of Biological Chemistry</i> , 2000, 275, 6642-6650.	3.4	111
45	Serial Immunoassays in Parallel on a Microfluidic Chip for Monitoring Hormone Secretion from Living Cells. <i>Analytical Chemistry</i> , 2007, 79, 947-954.	6.5	111
46	In vivo monitoring of amino acids by direct sampling of brain extracellular fluid at ultralow flow rates and capillary electrophoresis. <i>Journal of Neuroscience Methods</i> , 2002, 114, 39-49.	2.5	110
47	Detection of exocytosis at individual pancreatic beta cells by amperometry at a chemically modified microelectrode.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1995, 92, 9608-9612.	7.1	109
48	Viral Vector-Mediated Overexpression of Estrogen Receptor- β in Striatum Enhances the Estradiol-Induced Motor Activity in Female Rats and Estradiol-Modulated GABA Release. <i>Journal of Neuroscience</i> , 2009, 29, 1897-1903.	3.6	109
49	High-throughput automated post-processing of separation data. <i>Journal of Chromatography A</i> , 2004, 1040, 273-282.	3.7	108
50	Mass Activated Droplet Sorting (MADS) Enables High-Throughput Screening of Enzymatic Reactions at Nanoliter Scale. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 4470-4477.	13.8	108
51	Quantitative analysis of individual neurons by open tubular liquid chromatography with voltammetric detection. <i>Analytical Chemistry</i> , 1989, 61, 436-441.	6.5	107
52	Improved Temporal Resolution for in Vivo Microdialysis by Using Segmented Flow. <i>Analytical Chemistry</i> , 2008, 80, 5607-5615.	6.5	107
53	High-throughput screening by droplet microfluidics: perspective into key challenges and future prospects. <i>Lab on A Chip</i> , 2020, 20, 2247-2262.	6.0	106
54	Microfluidic Electrophoresis Chip Coupled to Microdialysis for in Vivo Monitoring of Amino Acid Neurotransmitters. <i>Analytical Chemistry</i> , 2005, 77, 7702-7708.	6.5	104

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55	Leptin-inhibited PBN neurons enhance responses to hypoglycemia in negative energy balance. <i>Nature Neuroscience</i> , 2014, 17, 1744-1750.	14.8	104
56	Imaging of Zn ²⁺ Release from Pancreatic \hat{I}^2 -Cells at the Level of Single Exocytotic Events. <i>Analytical Chemistry</i> , 2003, 75, 3468-3475.	6.5	102
57	Detection of Secretion from Single Pancreatic \hat{I}^2 -Cells Using Extracellular Fluorogenic Reactions and Confocal Fluorescence Microscopy. <i>Analytical Chemistry</i> , 2000, 72, 711-717.	6.5	100
58	Evidence for Neuronal Origin and Metabotropic Receptor-Mediated Regulation of Extracellular Glutamate and Aspartate in Rat Striatum In Vivo Following Electrical Stimulation of the Prefrontal Cortex. <i>Journal of Neurochemistry</i> , 1998, 70, 617-625.	3.9	100
59	Emerging trends in in vivo neurochemical monitoring by microdialysis. <i>Current Opinion in Chemical Biology</i> , 2013, 17, 860-867.	6.1	100
60	Metabolic Oscillations in \hat{A} -Cells. <i>Diabetes</i> , 2002, 51, S152-S161.	0.6	98
61	Enkephalin Surges in Dorsal Neostriatum as a Signal to Eat. <i>Current Biology</i> , 2012, 22, 1918-1924.	3.9	98
62	Microfluidic Chip for High Efficiency Electrophoretic Analysis of Segmented Flow from a Microdialysis Probe and in Vivo Chemical Monitoring. <i>Analytical Chemistry</i> , 2009, 81, 9072-9078.	6.5	97
63	A droplet microfluidic platform for high-throughput photochemical reaction discovery. <i>Nature Communications</i> , 2020, 11, 6202.	12.8	96
64	Forebrain deletion of the dystonia protein torsinA causes dystonic-like movements and loss of striatal cholinergic neurons. <i>ELife</i> , 2015, 4, e08352.	6.0	92
65	Strategies for low detection limit measurements with cyclic voltammetry. <i>Analytical Chemistry</i> , 1991, 63, 2965-2970.	6.5	89
66	Microfluidic Chip for Low-Flow Push-Pull Perfusion Sampling in Vivo with On-Line Analysis of Amino Acids. <i>Analytical Chemistry</i> , 2005, 77, 7067-7073.	6.5	89
67	Ratiometric fiber optic sensors for the detection of inter- and intra-cellular dissolved oxygen. <i>Journal of Materials Chemistry</i> , 2005, 15, 2913.	6.7	88
68	On-Line Competitive Immunoassay for Insulin Based on Capillary Electrophoresis with Laser-Induced Fluorescence Detection. <i>Analytical Chemistry</i> , 1996, 68, 3899-3906.	6.5	87
69	Rapid dopamine transmission within the nucleus accumbens: Dramatic difference between morphine and oxycodone delivery. <i>European Journal of Neuroscience</i> , 2014, 40, 3041-3054.	2.6	87
70	An Inexpensive, Open-Source USB Arduino Data Acquisition Device for Chemical Instrumentation. <i>Journal of Chemical Education</i> , 2016, 93, 1316-1319.	2.3	87
71	Effect of buffer, electric field, and separation time on detection of aptamer-ligand complexes for affinity probe capillary electrophoresis. <i>Electrophoresis</i> , 2003, 24, 1375-1382.	2.4	86
72	Islet Secretory Defect in Insulin Receptor Substrate 1 Null Mice Is Linked With Reduced Calcium Signaling and Expression of Sarco(endo)plasmic Reticulum Ca ²⁺ -ATPase (SERCA)-2b and -3. <i>Diabetes</i> , 2004, 53, 1517-1525.	0.6	86

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73	Fully integrated microfluidic separations systems for biochemical analysis. <i>Journal of Chromatography A</i> , 2007, 1168, 170-188.	3.7	86
74	Analysis of Samples Stored as Individual Plugs in a Capillary by Electrospray Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2009, 81, 6558-6561.	6.5	86
75	Enabling Biocatalysis by High-Throughput Protein Engineering Using Droplet Microfluidics Coupled to Mass Spectrometry. <i>ACS Omega</i> , 2018, 3, 1498-1508.	3.5	86
76	Effects of Intravesicular H ⁺ and Extracellular H ⁺ and Zn ²⁺ on Insulin Secretion in Pancreatic Beta Cells. <i>Journal of Biological Chemistry</i> , 1997, 272, 31308-31314.	3.4	82
77	Aptamer affinity chromatography for rapid assay of adenosine in microdialysis samples collected in vivo. <i>Journal of Chromatography A</i> , 2003, 1005, 123-130.	3.7	82
78	Sampling and Electrophoretic Analysis of Segmented Flow Streams Using Virtual Walls in a Microfluidic Device. <i>Analytical Chemistry</i> , 2008, 80, 8231-8238.	6.5	81
79	Label Free Screening of Enzyme Inhibitors at Femtomole Scale Using Segmented Flow Electrospray Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2012, 84, 5794-5800.	6.5	80
80	Oxygen Microsensor and Its Application to Single Cells and Mouse Pancreatic Islets. <i>Analytical Chemistry</i> , 1999, 71, 3642-3649.	6.5	79
81	Push-Pull Perfusion Sampling with Segmented Flow for High Temporal and Spatial Resolution in Vivo Chemical Monitoring. <i>Analytical Chemistry</i> , 2011, 83, 5207-5213.	6.5	79
82	Exposure to conditions of uncertainty promotes the pursuit of amphetamine. <i>Neuropsychopharmacology</i> , 2019, 44, 274-280.	5.4	79
83	Droplet Electrospray Ionization Mass Spectrometry for High Throughput Screening for Enzyme Inhibitors. <i>Analytical Chemistry</i> , 2014, 86, 9309-9314.	6.5	77
84	ASCT1 (Slc1a4) transporter is a physiologic regulator of brain α -serine and neurodevelopment. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 9628-9633.	7.1	77
85	Optimization of a coaxial continuous flow fast atom bombardment interface between capillary liquid chromatography and magnetic sector mass spectrometry for the analysis of biomolecules. <i>Analytical Chemistry</i> , 1989, 61, 1577-1584.	6.5	76
86	Selective preconcentration for capillary zone electrophoresis using protein G immunoaffinity capillary chromatography. <i>Electrophoresis</i> , 1995, 16, 549-556.	2.4	76
87	Trace-Level Amino Acid Analysis by Capillary Liquid Chromatography and Application to in Vivo Microdialysis Sampling with 10-s Temporal Resolution. <i>Analytical Chemistry</i> , 2000, 72, 865-871.	6.5	75
88	Mass Spectrometry α -Sensor for in Vivo Acetylcholine Monitoring. <i>Analytical Chemistry</i> , 2012, 84, 4659-4664.	6.5	74
89	Metabolome Response to Glucose in the β -Cell Line INS-1 832/13. <i>Journal of Biological Chemistry</i> , 2013, 288, 10923-10935.	3.4	74
90	Measurement of antibody-antigen dissociation constants using fast capillary electrophoresis with laser-induced fluorescence detection. <i>Electrophoresis</i> , 1997, 18, 112-117.	2.4	73

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91	Melanin Concentrating Hormone Is a Novel Regulator of Islet Function and Growth. <i>Diabetes</i> , 2007, 56, 311-319.	0.6	73
92	Time-Resolved Microdialysis for In Vivo Neurochemical Measurements and Other Applications. <i>Annual Review of Analytical Chemistry</i> , 2008, 1, 627-661.	5.4	73
93	Age-dependent dopamine transporter dysfunction and Serine129 phospho- α -synuclein overload in G2019S LRRK2 mice. <i>Acta Neuropathologica Communications</i> , 2017, 5, 22.	5.2	73
94	Rosiglitazone reduces renal and plasma markers of oxidative injury and reverses urinary metabolite abnormalities in the amelioration of diabetic nephropathy. <i>American Journal of Physiology - Renal Physiology</i> , 2008, 295, F1071-F1081.	2.7	72
95	Continuous-Flow Enzyme Assay on a Microfluidic Chip for Monitoring Glycerol Secretion from Cultured Adipocytes. <i>Analytical Chemistry</i> , 2009, 81, 2350-2356.	6.5	72
96	Ruthenium catalyst for amperometric determination of insulin at physiological pH. <i>Journal of Electroanalytical Chemistry</i> , 1997, 425, 191-199.	3.8	71
97	Practical Aspects of in Vivo Detection of Neuropeptides by Microdialysis Coupled Off-Line to Capillary LC with Multistage MS. <i>Analytical Chemistry</i> , 2009, 81, 2242-2250.	6.5	71
98	High-Throughput Nanoelectrospray Ionization-Mass Spectrometry Analysis of Microfluidic Droplet Samples. <i>Analytical Chemistry</i> , 2019, 91, 6645-6651.	6.5	71
99	<i>In Vivo</i> Chemical Monitoring at High Spatiotemporal Resolution Using Microfabricated Sampling Probes and Droplet-Based Microfluidics Coupled to Mass Spectrometry. <i>Analytical Chemistry</i> , 2018, 90, 10943-10950.	6.5	70
100	NAD ⁺ metabolite levels as a function of vitamins and calorie restriction: evidence for different mechanisms of longevity. <i>BMC Chemical Biology</i> , 2010, 10, 2.	1.6	69
101	Fast Analytical-Scale Separations by Capillary Electrophoresis and Liquid Chromatography. <i>Chemical Reviews</i> , 1999, 99, 3081-3132.	47.7	68
102	An immune-beige adipocyte communication via nicotinic acetylcholine receptor signaling. <i>Nature Medicine</i> , 2018, 24, 814-822.	30.7	67
103	Effects of Intrathecally Administered Nociceptin/Orphanin FQ in Monkeys: Behavioral and Mass Spectrometric Studies. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2006, 318, 1257-1264.	2.5	66
104	Identification and Quantification of Modified Nucleosides in <i>Saccharomyces cerevisiae</i> mRNAs. <i>ACS Chemical Biology</i> , 2019, 14, 1403-1409.	3.4	65
105	In vivo monitoring of amino acids by microdialysis sampling with on-line derivatization by naphthalene-2,3-dicarboxyaldehyde and rapid micellar electrokinetic capillary chromatography. <i>Journal of Neuroscience Methods</i> , 2004, 138, 189-197.	2.5	64
106	Discovery and Neurochemical Screening of Peptides in Brain Extracellular Fluid by Chemical Analysis of in Vivo Microdialysis Samples. <i>Analytical Chemistry</i> , 2004, 76, 5523-5533.	6.5	64
107	Capillary liquid chromatography with MS3 for the determination of enkephalins in microdialysis samples from the striatum of anesthetized and freely-moving rats. <i>Journal of Mass Spectrometry</i> , 2005, 40, 146-153.	1.6	64
108	Ventral Tegmental Area Neurotensin Signaling Links the Lateral Hypothalamus to Locomotor Activity and Striatal Dopamine Efflux in Male Mice. <i>Endocrinology</i> , 2015, 156, 1692-1700.	2.8	64

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109	Negative mode sheathless capillary electrophoresis electrospray ionization-mass spectrometry for metabolite analysis of prokaryotes. <i>Journal of Chromatography A</i> , 2006, 1106, 80-88.	3.7	63
110	Microfabrication and in Vivo Performance of a Microdialysis Probe with Embedded Membrane. <i>Analytical Chemistry</i> , 2016, 88, 1230-1237.	6.5	63
111	Advances in and prospects of microchip liquid chromatography. <i>TrAC - Trends in Analytical Chemistry</i> , 2016, 81, 110-117.	11.4	63
112	Rapid Determination of Aspartate Enantiomers in Tissue Samples by Microdialysis Coupled On-Line with Capillary Electrophoresis. <i>Analytical Chemistry</i> , 1999, 71, 2379-2384.	6.5	61
113	Estradiol attenuates the K ⁺ -induced increase in extracellular GABA in rat striatum. <i>Synapse</i> , 2006, 59, 122-124.	1.2	61
114	Rapid simultaneous determination of glucagon and insulin by capillary electrophoresis immunoassays. <i>Biomedical Applications</i> , 2000, 742, 353-362.	1.7	59
115	Behavior-related alterations of striatal neurochemistry in a mouse model of stereotyped movement disorder. <i>Pharmacology Biochemistry and Behavior</i> , 2004, 77, 501-507.	2.9	59
116	Insulin-like growth factor II signaling through the insulin-like growth factor II/mannose-6-phosphate receptor promotes exocytosis in insulin-secreting cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1997, 94, 6232-6237.	7.1	58
117	On-line interface between microdialysis and capillary zone electrophoresis. <i>Analytica Chimica Acta</i> , 1995, 307, 217-225.	5.4	57
118	Electrospray sample deposition for matrix-assisted laser desorption/ionization(MALDI) and atmospheric pressure MALDI mass spectrometry with attomole detection limits. <i>Rapid Communications in Mass Spectrometry</i> , 2004, 18, 1193-1200.	1.5	57
119	Microdialysis Coupled with LC-MS/MS for In Vivo Neurochemical Monitoring. <i>AAPS Journal</i> , 2017, 19, 1284-1293.	4.4	57
120	Chemical phenomena in solid-state voltammetry in polymer solvents. <i>Journal of the American Chemical Society</i> , 1989, 111, 1614-1619.	13.7	56
121	Antigen-antibody interactions in capillary electrophoresis. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2002, 768, 93-103.	2.3	56
122	Simultaneous measurement of oxygen and dopamine: Coupling of oxygen consumption and neurotransmission. <i>Neuroscience</i> , 1992, 47, 603-612.	2.3	55
123	In vivo monitoring of glutathione and cysteine in rat caudate nucleus using microdialysis on-line with capillary zone electrophoresis-laser induced fluorescence detection. <i>Journal of Neuroscience Methods</i> , 1997, 72, 153-159.	2.5	55
124	Collection of nanoliter microdialysate fractions in plugs for off-line in vivo chemical monitoring with up to 2s temporal resolution. <i>Journal of Neuroscience Methods</i> , 2010, 190, 39-48.	2.5	55
125	Incentive and dopamine sensitization produced by intermittent but not long access cocaine self-administration. <i>European Journal of Neuroscience</i> , 2019, 50, 2663-2682.	2.6	55
126	Electrochemical Detection of Exocytosis at Single Rat Melanotrophs. <i>Analytical Chemistry</i> , 1995, 67, 3633-3637.	6.5	54

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127	In Vitro Characterization of the Interaction between HIV-1 Gag and Human Lysyl-tRNA Synthetase. <i>Journal of Biological Chemistry</i> , 2006, 281, 19449-19456.	3.4	54
128	Microdialysis coupled on-line to capillary liquid chromatography with tandem mass spectrometry for monitoring acetylcholine in vivo. <i>Journal of Neuroscience Methods</i> , 2007, 159, 86-92.	2.5	54
129	Fraction Collection from Capillary Liquid Chromatography and Off-line Electrospray Ionization Mass Spectrometry Using Oil Segmented Flow. <i>Analytical Chemistry</i> , 2010, 82, 5260-5267.	6.5	54
130	X-Box Binding Protein 1 Is Essential for Insulin Regulation of Pancreatic β -Cell Function. <i>Diabetes</i> , 2013, 62, 2439-2449.	0.6	54
131	Controlled release of biological molecules from conducting polymer modified electrodes. <i>Journal of Electroanalytical Chemistry</i> , 1994, 368, 329-332.	3.8	53
132	On-line competitive immunoassay based on capillary electrophoresis applied to monitoring insulin secretion from single islets of Langerhans. <i>Electrophoresis</i> , 1998, 19, 403-408.	2.4	53
133	Western Blotting Using Capillary Electrophoresis. <i>Analytical Chemistry</i> , 2011, 83, 1350-1355.	6.5	53
134	In vivo detection of optically-evoked opioid peptide release. <i>ELife</i> , 2018, 7, .	6.0	53
135	Identification of Isn1 and Sdt1 as Glucose- and Vitamin-regulated Nicotinamide Mononucleotide and Nicotinic Acid Mononucleotide 5 α -Nucleotidases Responsible for Production of Nicotinamide Riboside and Nicotinic Acid Riboside. <i>Journal of Biological Chemistry</i> , 2009, 284, 34861-34869.	3.4	51
136	Increased Glucose Metabolism and Glycerolipid Formation by Fatty Acids and GPR40 Receptor Signaling Underlies the Fatty Acid Potentiation of Insulin Secretion. <i>Journal of Biological Chemistry</i> , 2014, 289, 13575-13588.	3.4	51
137	Chemical analysis of single neurons by open tubular liquid chromatography. <i>Mikrochimica Acta</i> , 1987, 92, 37-45.	5.0	50
138	Automated capillary liquid chromatography for simultaneous determination of neuroactive amines and amino acids. <i>Journal of Chromatography A</i> , 2002, 962, 105-115.	3.7	50
139	Serotonin signaling mediates protein valuation and aging. <i>ELife</i> , 2016, 5, .	6.0	50
140	Identification and Quantification of Neuropeptides in Brain Tissue by Capillary Liquid Chromatography Coupled Off-Line to MALDI-TOF and MALDI-TOF/TOF-MS. <i>Analytical Chemistry</i> , 2006, 78, 4342-4351.	6.5	49
141	Microfabricated Sampling Probes for in Vivo Monitoring of Neurotransmitters. <i>Analytical Chemistry</i> , 2013, 85, 3828-3831.	6.5	49
142	Monitoring C-Peptide Storage and Secretion in Islet β -Cells In Vitro and In Vivo. <i>Diabetes</i> , 2016, 65, 699-709.	0.6	46
143	Viperin interacts with the kinase IRAK1 and the E3 ubiquitin ligase TRAF6, coupling innate immune signaling to antiviral ribonucleotide synthesis. <i>Journal of Biological Chemistry</i> , 2019, 294, 6888-6898.	3.4	46
144	Glucose Metabolism, Islet Architecture, and Genetic Homogeneity in Imprinting of [Ca ²⁺] _i and Insulin Rhythms in Mouse Islets. <i>PLoS ONE</i> , 2009, 4, e8428.	2.5	45

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145	Quantitative in vivo measurements using microdialysis on-line with capillary zone electrophoresis. <i>Journal of Neuroscience Methods</i> , 1995, 63, 147-152.	2.5	44
146	Comparison of Amperometric Methods for Detection of Exocytosis from Single Pancreatic β^2 -Cells of Different Species. <i>Analytical Chemistry</i> , 1999, 71, 5551-5556.	6.5	44
147	Effect of the Insulin Mimetic L-783,281 on Intracellular $[Ca^{2+}]$ and Insulin Secretion From Pancreatic β -Cells. <i>Diabetes</i> , 2002, 51, S43-S49.	0.6	44
148	Leptin promotes dopamine transporter and tyrosine hydroxylase activity in the nucleus accumbens of Sprague-Dawley rats. <i>Journal of Neurochemistry</i> , 2010, 114, 666-674.	3.9	44
149	Detection of Multiple Patterns of Oscillatory Oxygen Consumption in Single Mouse Islets of Langerhans. <i>Biochemical and Biophysical Research Communications</i> , 1999, 259, 331-335.	2.1	43
150	A capillary-PDMS hybrid chip for separations-based sensing of neurotransmitters in vivo. <i>Lab on A Chip</i> , 2006, 6, 1205-1212.	6.0	43
151	Western Blotting Using Microchip Electrophoresis Interfaced to a Protein Capture Membrane. <i>Analytical Chemistry</i> , 2013, 85, 6073-6079.	6.5	43
152	Reducing Adsorption To Improve Recovery and in Vivo Detection of Neuropeptides by Microdialysis with LC-MS. <i>Analytical Chemistry</i> , 2015, 87, 9802-9809.	6.5	43
153	Multiplexed Western Blotting Using Microchip Electrophoresis. <i>Analytical Chemistry</i> , 2016, 88, 6703-6710.	6.5	43
154	Islet proteomics reveals genetic variation in dopamine production resulting in altered insulin secretion. <i>Journal of Biological Chemistry</i> , 2018, 293, 5860-5877.	3.4	43
155	Real-time Detection of Basal and Stimulated G Protein GTPase Activity Using Fluorescent GTP Analogues. <i>Journal of Biological Chemistry</i> , 2005, 280, 7712-7719.	3.4	41
156	Chemical Gradients within Brain Extracellular Space Measured using Low Flow Push-Pull Perfusion Sampling in Vivo. <i>ACS Chemical Neuroscience</i> , 2013, 4, 321-329.	3.5	41
157	Electrocatalyst for non-enzymatic oxidation of glucose in neutral saline solutions. <i>Journal of Electroanalytical Chemistry</i> , 1997, 424, 43-48.	3.8	40
158	Multiplexed Detection of Protein-Peptide Interaction and Inhibition Using Capillary Electrophoresis. <i>Analytical Chemistry</i> , 2007, 79, 1690-1695.	6.5	40
159	Rapid and label-free screening of enzyme inhibitors using segmented flow electrospray ionization mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2010, 21, 1107-1113.	2.8	40
160	Blunted mGluR Activation Disinhibits Striatopallidal Transmission in Parkinsonian Mice. <i>Cell Reports</i> , 2016, 17, 2431-2444.	6.4	40
161	Ventromedial hypothalamic nucleus neuronal subset regulates blood glucose independently of insulin. <i>Journal of Clinical Investigation</i> , 2020, 130, 2943-2952.	8.2	40
162	Pneumatic microsyringe for use as an injector in open tubular liquid chromatography and as a dispenser in microanalysis. <i>Analytical Chemistry</i> , 1988, 60, 1521-1524.	6.5	39

#	ARTICLE	IF	CITATIONS
163	Sample-Dependent Effects on the Neuropeptidome Detected in Rat Brain Tissue Preparations by Capillary Liquid Chromatography with Tandem Mass Spectrometry. <i>Analytical Chemistry</i> , 2005, 77, 6331-6338.	6.5	39
164	Effect of decreasing column inner diameter and use of off-line two-dimensional chromatography on metabolite detection in complex mixtures. <i>Journal of Chromatography A</i> , 2007, 1172, 127-134.	3.7	39
165	Continuous Operation of Microfabricated Electrophoresis Devices for 24 Hours and Application to Chemical Monitoring of Living Cells. <i>Analytical Chemistry</i> , 2009, 81, 6837-6842.	6.5	39
166	Dynamic monitoring of glucagon secretion from living cells on a microfluidic chip. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 402, 2797-2803.	3.7	39
167	Asphyxia-activated corticocardiac signaling accelerates onset of cardiac arrest. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E2073-82.	7.1	39
168	Advances in capillary electrophoresis and the implications for drug discovery. <i>Expert Opinion on Drug Discovery</i> , 2017, 12, 213-224.	5.0	39
169	Optically Gated Capillary Electrophoresis of Phthalaldehyde- β -Mercaptoethanol Derivatives of Amino Acids for Chemical Monitoring. <i>Analytical Chemistry</i> , 1998, 70, 4015-4022.	6.5	38
170	Sampling from Nanoliter Plugs via Asymmetrical Splitting of Segmented Flow. <i>Analytical Chemistry</i> , 2010, 82, 7852-7856.	6.5	38
171	Microdialysis and mass spectrometric monitoring of dopamine and enkephalins in the globus pallidus reveal reciprocal interactions that regulate movement. <i>Journal of Neurochemistry</i> , 2011, 118, 24-33.	3.9	38
172	Microfluidic Chip with Integrated Electrophoretic Immunoassay for Investigating Cell-Cell Interactions. <i>Analytical Chemistry</i> , 2018, 90, 5171-5178.	6.5	38
173	Detection of Peptides by Precolumn Derivatization with Biuret Reagent and Preconcentration on Capillary Liquid Chromatography Columns with Electrochemical Detection. <i>Analytical Chemistry</i> , 1999, 71, 987-994.	6.5	37
174	Substrate effects on oscillations in metabolism, calcium and secretion in single mouse islets of Langerhans. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2005, 1724, 23-36.	2.4	37
175	Reversed-Phase Capillary Liquid Chromatography Coupled On-Line to Capillary Electrophoresis Immunoassays. <i>Analytical Chemistry</i> , 2000, 72, 5365-5372.	6.5	36
176	Detection of G Proteins by Affinity Probe Capillary Electrophoresis Using a Fluorescently Labeled GTP Analogue. <i>Analytical Chemistry</i> , 2003, 75, 4297-4304.	6.5	36
177	Microfabricated Probes for Studying Brain Chemistry: A Review. <i>ChemPhysChem</i> , 2018, 19, 1128-1142.	2.1	36
178	Extracellular ascorbate modulates cortically evoked glutamate dynamics in rat striatum. <i>Neuroscience Letters</i> , 2005, 378, 166-170.	2.1	35
179	Dynamic amino acid increases in the basolateral amygdala during acquisition and expression of conditioned fear. <i>European Journal of Neuroscience</i> , 2006, 23, 3391-3398.	2.6	35
180	Transient changes in nucleus accumbens amino acid concentrations correlate with individual responsivity to the predator fox odor 2,5-dihydro-2,4,5-trimethylthiazoline. <i>Journal of Neurochemistry</i> , 2006, 96, 236-246.	3.9	35

#	ARTICLE	IF	CITATIONS
181	Critical Role of Helix 4 of HIV-1 Capsid C-terminal Domain in Interactions with Human Lysyl-tRNA Synthetase. <i>Journal of Biological Chemistry</i> , 2007, 282, 32274-32279.	3.4	35
182	Collection, storage, and electrophoretic analysis of nanoliter microdialysis samples collected from awake animals in vivo. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 400, 2013-2023.	3.7	35
183	Capillary Electrophoresis and Fluorescence Anisotropy for Quantitative Analysis of Peptide-Protein Interactions Using JAK2 and SH2-B ¹² as a Model System. <i>Analytical Chemistry</i> , 2005, 77, 2482-2489.	6.5	34
184	Differential Increase in Taurine Levels by Low-Dose Ethanol in the Dorsal and Ventral Striatum Revealed by Microdialysis With On-Line Capillary Electrophoresis. <i>Alcoholism: Clinical and Experimental Research</i> , 2004, 28, 1028-1038.	2.4	33
185	Efficiency of packed microcolumns compared with large-bore packed columns in size-exclusion chromatography. <i>Journal of Separation Science</i> , 1990, 2, 120-126.	1.0	32
186	Bioanalytical applications of fast capillary electrophoresis. <i>Analytica Chimica Acta</i> , 1999, 400, 163-180.	5.4	32
187	The rate of intravenous cocaine administration alters c-fos mRNA expression and the temporal dynamics of dopamine, but not glutamate, overflow in the striatum. <i>Brain Research</i> , 2008, 1209, 151-156.	2.2	32
188	PKC ^β Inhibitors Attenuate Amphetamine-Stimulated Dopamine Efflux. <i>ACS Chemical Neuroscience</i> , 2016, 7, 757-766.	3.5	32
189	Chronic Glucose Exposure Systematically Shifts the Oscillatory Threshold of Mouse Islets: Experimental Evidence for an Early Intrinsic Mechanism of Compensation for Hyperglycemia. <i>Endocrinology</i> , 2016, 157, 611-623.	2.8	32
190	Evoked Neuronal Activity Accompanied by Transmitter Release Increases Oxygen Concentration in Rat Striatum in vivo but Not in vitro. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1992, 12, 629-637.	4.3	31
191	Simultaneous monitoring of Zn ²⁺ secretion and intracellular Ca ²⁺ from islets and islet cells by fluorescence microscopy. <i>BioTechniques</i> , 2004, 37, 922-933.	1.8	31
192	Parallel Electrophoretic Analysis of Segmented Samples On Chip for High-Throughput Determination of Enzyme Activities. <i>Analytical Chemistry</i> , 2010, 82, 9261-9267.	6.5	31
193	Simultaneous oxytocin and arg-vasopressin measurements in microdialysates using capillary liquid chromatography-mass spectrometry. <i>Journal of Neuroscience Methods</i> , 2012, 209, 127-133.	2.5	31
194	Does Viperin Function as a Radical S-Adenosyl-l-methionine-dependent Enzyme in Regulating Farnesylpyrophosphate Synthase Expression and Activity?. <i>Journal of Biological Chemistry</i> , 2016, 291, 26806-26815.	3.4	31
195	Determination of water-soluble and fat-soluble vitamins in tears and blood serum of infants and parents by liquid chromatography/mass spectrometry. <i>Experimental Eye Research</i> , 2017, 155, 54-63.	2.6	31
196	Monitoring of met-enkephalin in vivo with 5-min temporal resolution using microdialysis sampling and capillary liquid chromatography with electrochemical detection. <i>Biomedical Applications</i> , 1997, 704, 43-52.	1.7	30
197	Subsecond Electrophoretic Separations from Droplet Samples for Screening of Enzyme Modulators. <i>Analytical Chemistry</i> , 2014, 86, 10373-10379.	6.5	30
198	Identification of sirtuin 5 inhibitors by ultrafast microchip electrophoresis using nanoliter volume samples. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 721-731.	3.7	30

#	ARTICLE	IF	CITATIONS
199	Exploring single-cell dynamics using chemically-modified microelectrodes. <i>TrAC - Trends in Analytical Chemistry</i> , 1995, 14, 158-164.	11.4	29
200	Dual microcolumn immunoassay applied to determination of insulin secretion from single islets of Langerhans and insulin in serum. <i>Biomedical Applications</i> , 1997, 689, 295-303.	1.7	29
201	Microscale sample deposition onto hydrophobic target plates for trace level detection of neuropeptides in brain tissue by MALDI-MS. <i>Journal of Mass Spectrometry</i> , 2005, 40, 1338-1346.	1.6	28
202	Amperometry and cyclic voltammetry of tyrosine and tryptophan-containing oligopeptides at carbon fiber microelectrodes applied to single cell analysis. <i>Electroanalysis</i> , 1997, 9, 203-208.	2.9	27
203	Temporal Stability of the Location of the Esophagus in Patients Undergoing a Repeat Left Atrial Ablation Procedure for Atrial Fibrillation or Flutter. <i>Journal of Cardiovascular Electrophysiology</i> , 2008, 19, 351-355.	1.7	27
204	Capillary liquid chromatography of multiple peptides with on-line capillary electrophoresis immunoassay detection. <i>Electrophoresis</i> , 2001, 22, 3659-3667.	2.4	26
205	Use of a native affinity ligand for the detection of G proteins by capillary isoelectric focusing with laser-induced fluorescence detection. <i>Electrophoresis</i> , 2004, 25, 2319-2325.	2.4	26
206	Reversibly sealed multilayer microfluidic device for integrated cell perfusion and on-line chemical analysis of cultured adipocyte secretions. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 397, 2939-2947.	3.7	26
207	Multiplexed microfluidic enzyme assays for simultaneous detection of lipolysis products from adipocytes. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 4851-4859.	3.7	26
208	Pre-existing differences and diet-induced alterations in striatal dopamine systems of obesity-prone rats. <i>Obesity</i> , 2016, 24, 670-677.	3.0	26
209	Development of a Capillary Electrophoresis Platform for Identifying Inhibitors of Protein-Protein Interactions. <i>Analytical Chemistry</i> , 2013, 85, 9824-9831.	6.5	25
210	Monitoring cell secretions on microfluidic chips using solid-phase extraction with mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2017, 409, 169-178.	3.7	25
211	The in Vivo Neurochemical Profile of Selectively Bred High-Responder and Low-Responder Rats Reveals Baseline, Cocaine-Evoked, and Novelty-Evoked Differences in Monoaminergic Systems. <i>ACS Chemical Neuroscience</i> , 2018, 9, 715-724.	3.5	25
212	Localized Exocytosis Detected by Spatially Resolved Amperometry in Single Pancreatic β -Cells. <i>Cell Biochemistry and Biophysics</i> , 2000, 33, 227-240.	1.8	24
213	Measurement of dissociation rate of biomolecular complexes using CE. <i>Electrophoresis</i> , 2009, 30, 457-464.	2.4	24
214	Determination of amines and phenolic acids in wine with benzoyl chloride derivatization and liquid chromatography-mass spectrometry. <i>Journal of Chromatography A</i> , 2017, 1523, 248-256.	3.7	24
215	CNS penetration of the opioid glycopeptide MMP-2200: A microdialysis study. <i>Neuroscience Letters</i> , 2012, 531, 99-103.	2.1	23
216	In Vivo Calibration of Microdialysis Using Infusion of Stable-Isotope Labeled Neurotransmitters. <i>ACS Chemical Neuroscience</i> , 2013, 4, 729-736.	3.5	23

#	ARTICLE	IF	CITATIONS
217	Direct and Systemic Administration of a CNS-Permeant Tamoxifen Analog Reduces Amphetamine-Induced Dopamine Release and Reinforcing Effects. <i>Neuropsychopharmacology</i> , 2017, 42, 1940-1949.	5.4	23
218	Chemical biomarkers of epileptogenesis and ictogenesis in experimental epilepsy. <i>Neurobiology of Disease</i> , 2019, 121, 177-186.	4.4	23
219	High-Throughput Liquid-Liquid Extractions with Nanoliter Volumes. <i>Analytical Chemistry</i> , 2020, 92, 3189-3197.	6.5	23
220	Laser-induced fluorescence detection in microcolumn separations. <i>TrAC - Trends in Analytical Chemistry</i> , 1998, 17, 484-491.	11.4	22
221	Direct measurement of glucose gradients and mass transport within islets of Langerhans. <i>Biochemical and Biophysical Research Communications</i> , 2003, 304, 371-377.	2.1	22
222	Multiplexed detection and applications for separations on parallel microchips. <i>Electrophoresis</i> , 2008, 29, 3296-3305.	2.4	22
223	Rapid Preconcentration for Liquid Chromatography-Mass Spectrometry Assay of Trace Level Neuropeptides. <i>Journal of the American Society for Mass Spectrometry</i> , 2013, 24, 1700-1709.	2.8	22
224	D-Serine Signaling and NMDAR-Mediated Synaptic Plasticity Are Regulated by System A-Type of Glutamine/D-Serine Dual Transporters. <i>Journal of Neuroscience</i> , 2020, 40, 6489-6502.	3.6	22
225	Spatial Organization of Ca ²⁺ Entry and Exocytosis in Mouse Pancreatic β -Cells. <i>Biochemical and Biophysical Research Communications</i> , 2001, 286, 315-321.	2.1	21
226	Knockdown of ATP citrate lyase in pancreatic beta cells does not inhibit insulin secretion or glucose flux and implicates the acetoacetate pathway in insulin secretion. <i>Molecular Metabolism</i> , 2016, 5, 980-987.	6.5	21
227	Acetylcholine-synthesizing macrophages in subcutaneous fat are regulated by β 2-adrenergic signaling. <i>EMBO Journal</i> , 2021, 40, e106061.	7.8	21
228	Liquid chromatography above 20,000 PSI. <i>TrAC - Trends in Analytical Chemistry</i> , 2020, 124, 115810.	11.4	20
229	Capillary LC-MS for High Sensitivity Metabolomic Analysis of Single Islets of Langerhans. <i>Analytical Chemistry</i> , 2008, 80, 3539-3546.	6.5	19
230	Catheter ablation of atrial fibrillation in the elderly: does the benefit outweigh the risk?. <i>Expert Review of Cardiovascular Therapy</i> , 2013, 11, 697-704.	1.5	19
231	A label-free Sirtuin 1 assay based on droplet-electrospray ionization mass spectrometry. <i>Analytical Methods</i> , 2016, 8, 3458-3465.	2.7	19
232	Use and Future Prospects of in Vivo Microdialysis for Epilepsy Studies. <i>ACS Chemical Neuroscience</i> , 2019, 10, 1875-1883.	3.5	19
233	Microfabricated Channel Array Electrophoresis for Characterization and Screening of Enzymes Using RGS-G Protein Interactions as a Model System. <i>Analytical Chemistry</i> , 2008, 80, 5225-5231.	6.5	18
234	Protein Cross-Linking Capillary Electrophoresis for Protein-Protein Interaction Analysis. <i>Analytical Chemistry</i> , 2016, 88, 8272-8278.	6.5	18

#	ARTICLE	IF	CITATIONS
235	Varying the rate of intravenous cocaine infusion influences the temporal dynamics of both drug and dopamine concentrations in the striatum. <i>European Journal of Neuroscience</i> , 2019, 50, 2054-2064.	2.6	18
236	Effect of column diameter on plate height in high speed liquid chromatography using pellicular and perfused particles in packed capillaries. <i>Journal of Separation Science</i> , 1993, 5, 433-439.	1.0	17
237	Affinity Assays Using Fluorescence Anisotropy with Capillary Electrophoresis Separation. <i>Analytical Chemistry</i> , 2004, 76, 7380-7386.	6.5	17
238	Actions of thermal stress in two-cell bovine embryos: oxygen metabolism, glutathione and ATP content, and the time-course of development. <i>Reproduction</i> , 2004, 128, 33-42.	2.6	17
239	Amphetamine stimulates movement through thalamocortical glutamate release. <i>Journal of Neurochemistry</i> , 2014, 128, 152-161.	3.9	17
240	Experimental evaluation and computational modeling of tissue damage from low-flow push-pull perfusion sampling in vivo. <i>Journal of Neuroscience Methods</i> , 2015, 242, 97-105.	2.5	17
241	Sample preparation protocol for bottom-up proteomic analysis of the secretome of the islets of Langerhans. <i>Analyst</i> , 2016, 141, 1700-1706.	3.5	17
242	Data representing two separate LC-MS methods for detection and quantification of water-soluble and fat-soluble vitamins in tears and blood serum. <i>Data in Brief</i> , 2017, 11, 316-330.	1.0	17
243	Metabolomics Analysis Reveals that AICAR Affects Glycerolipid, Ceramide and Nucleotide Synthesis Pathways in INS-1 Cells. <i>PLoS ONE</i> , 2015, 10, e0129029.	2.5	17
244	Mapping enzyme catalysis with metabolic biosensing. <i>Nature Communications</i> , 2021, 12, 6803.	12.8	17
245	Electromechanical Properties of Pressure-Actuated Poly(dimethylsiloxane) Microfluidic Push-Down Valves. <i>Analytical Chemistry</i> , 2008, 80, 6110-6113.	6.5	16
246	Targeting viperin to the mitochondrion inhibits the thiolase activity of the trifunctional enzyme complex. <i>Journal of Biological Chemistry</i> , 2020, 295, 2839-2849.	3.4	16
247	Determination of trace level $\hat{1}^3$ -aminobutyric acid using an improved OPA pre-column derivatization and on-column preconcentration capillary liquid chromatography with electrochemical detection. <i>Analyst</i> , 1998, 123, 2119-2124.	3.5	15
248	Microscale determination of purines in tissue samples by capillary liquid chromatography with electrochemical detection. <i>Analyst</i> , 2003, 128, 1013.	3.5	15
249	High performance liquid chromatography coupled on-line to capillary electrophoresis with laser-induced fluorescence detection for detecting inhibitors of Src homology 2 domain-phosphopeptide binding in mixtures. <i>Journal of Chromatography A</i> , 2008, 1194, 225-230.	3.7	15
250	Measurement of Lipolysis Products Secreted by 3T3-L1 Adipocytes Using Microfluidics. <i>Methods in Enzymology</i> , 2014, 538, 195-209.	1.0	15
251	Droplet sample introduction to microchip gel and zone electrophoresis for rapid analysis of protein-protein complexes and enzymatic reactions. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 6155-6163.	3.7	15
252	Ultrahigh-Performance capillary liquid chromatography-mass spectrometry at 35 kpsi for separation of lipids. <i>Journal of Chromatography A</i> , 2020, 1611, 460575.	3.7	15

#	ARTICLE	IF	CITATIONS
253	Distinctive immunoregulatory effects of adenosine on T cells of older humans. <i>FASEB Journal</i> , 2012, 26, 1301-1310.	0.5	14
254	Biochemical Indicators of Implantation Success of Tissue-Engineered Oral Mucosa. <i>Journal of Dental Research</i> , 2015, 94, 78-84.	5.2	14
255	Protein cross-linking capillary electrophoresis at increased throughput for a range of protein-protein interactions. <i>Analyst</i> , 2018, 143, 1805-1812.	3.5	14
256	Mass Activated Droplet Sorting (MADS) Enables High-Throughput Screening of Enzymatic Reactions at Nanoliter Scale. <i>Angewandte Chemie</i> , 2020, 132, 4500-4507.	2.0	14
257	A microfabricated flow-through cell with parallel-opposed electrodes for recycling amperometric detection. <i>Journal of Electroanalytical Chemistry</i> , 1997, 436, 27-34.	3.8	13
258	Enhanced GLP-1- and Sulfonylurea-Induced Insulin Secretion in Islets Lacking Leptin Signaling. <i>Molecular Endocrinology</i> , 2012, 26, 967-976.	3.7	13
259	New developments in Western blot technology. <i>Chinese Chemical Letters</i> , 2015, 26, 416-418.	9.0	13
260	Ruboxistaurin Reduces Cocaine-Stimulated Increases in Extracellular Dopamine by Modifying Dopamine-Autoreceptor Activity. <i>ACS Chemical Neuroscience</i> , 2019, 10, 1960-1969.	3.5	13
261	Interactions between Viperin, Vesicle-Associated Membrane Protein A, and Hepatitis C Virus Protein NS5A Modulate Viperin Activity and NS5A Degradation. <i>Biochemistry</i> , 2020, 59, 780-789.	2.5	13
262	Capillary ultrahigh-pressure liquid chromatography-mass spectrometry for fast and high resolution metabolomics separations. <i>Journal of Chromatography A</i> , 2021, 1635, 461706.	3.7	13
263	Modifying Chromatography Conditions for Improved Unknown Feature Identification in Untargeted Metabolomics. <i>Analytical Chemistry</i> , 2021, 93, 15840-15849.	6.5	13
264	Pressure- and electroosmotically-driven flow in capillaries packed with nonporous particles for high-Speed separations. <i>Journal of Separation Science</i> , 1999, 11, 723-728.	1.0	12
265	Detection of Adenylyl Cyclase Activity Using a Fluorescent ATP Substrate and Capillary Electrophoresis. <i>Analytical Chemistry</i> , 2006, 78, 1731-1738.	6.5	12
266	Detection of G Protein Coupled Receptor Mediated Adenylyl Cyclase Activity by Capillary Electrophoresis Using Fluorescently Labeled ATP. <i>Analytical Chemistry</i> , 2007, 79, 7534-7539.	6.5	12
267	Synergistic activity between the delta-opioid agonist SNC80 and amphetamine occurs via a glutamatergic NMDA-receptor dependent mechanism. <i>Neuropharmacology</i> , 2014, 77, 19-27.	4.1	12
268	Continuous glucose monitoring reveals glycemic variability and hypoglycemia after vertical sleeve gastrectomy in rats. <i>Molecular Metabolism</i> , 2020, 32, 148-159.	6.5	12
269	Fast immunoassay for microfluidic western blotting by direct deposition of reagents onto capture membrane. <i>Analytical Methods</i> , 2020, 12, 1606-1616.	2.7	12
270	Analysis of fatty acid composition in insulin secreting cells by comprehensive two-dimensional gas chromatography time-of-flight mass spectrometry. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2012, 893-894, 187-192.	2.3	11

#	ARTICLE	IF	CITATIONS
271	CE-MS with electrokinetic supercharging and application to determination of neurotransmitters. <i>Electrophoresis</i> , 2019, 40, 2946-2953.	2.4	11
272	The Delta-Specific Opioid Glycopeptide BBI-11008: CNS Penetration and Behavioral Analysis in a Preclinical Model of Levodopa-Induced Dyskinesia. <i>International Journal of Molecular Sciences</i> , 2021, 22, 20.	4.1	11
273	Secretion from Islets and Single Islet Cells following Cryopreservation. <i>Cell Transplantation</i> , 1999, 8, 691-698.	2.5	10
274	Maladaptive consequences of repeated intermittent exposure to uncertainty. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2020, 99, 109864.	4.8	10
275	The antiviral enzyme viperin inhibits cholesterol biosynthesis. <i>Journal of Biological Chemistry</i> , 2021, 297, 100824.	3.4	10
276	Open tubular liquid-chromatography and the analysis of single neurons. <i>Journal of Research of the National Bureau of Standards (United States)</i> , 1988, 93, 403.	0.4	10
277	Design and microfabrication of a miniature fiber optic probe with integrated lenses and mirrors for Raman and fluorescence measurements. <i>Analytical and Bioanalytical Chemistry</i> , 2017, 409, 275-285.	3.7	9
278	A microfluidic chip for on-line derivatization and application to in vivo neurochemical monitoring. <i>Analyst</i> , The, 2021, 146, 825-834.	3.5	9
279	Insulin receptor substrate 1, but not IRS2, plays a dominant role in regulating pancreatic alpha cell function in mice. <i>Journal of Biological Chemistry</i> , 2021, 296, 100646.	3.4	9
280	Evaluation of 5 μ m Superficially Porous Particles for Capillary and Microfluidic LC Columns. <i>Chromatography (Basel)</i> , 2015, 2, 502-514.	1.2	8
281	O-272. <i>Fertility and Sterility</i> , 2006, 86, S116.	1.0	7
282	Assay for Glucosamine 6-Phosphate Using a Ligand-Activated Ribozyme with Fluorescence Resonance Energy Transfer or CE-Laser-Induced Fluorescence Detection. <i>Analytical Chemistry</i> , 2008, 80, 8195-8201.	6.5	7
283	The 2016 Annual Review Issue. <i>Analytical Chemistry</i> , 2016, 88, 1-1.	6.5	7
284	Capillary liquid chromatography fraction collection and postcolumn reaction using segmented flow microfluidics. <i>Journal of Separation Science</i> , 2013, 36, 3471-3477.	2.5	6
285	Fluorescence-Based Adenylyl Cyclase Assay Adaptable to High Throughput Screening. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2007, 10, 289-298.	1.1	5
286	Capillary Electrophoresis Assay for G Protein-Coupled Receptor-Mediated GTPase Activity. <i>Analytical Chemistry</i> , 2007, 79, 1158-1163.	6.5	5
287	Repeatability of gradient ultrahigh pressure liquid chromatography-tandem mass spectrometry methods in instrument-controlled thermal environments. <i>Journal of Chromatography A</i> , 2016, 1461, 42-50.	3.7	5
288	Hormone glucagon: electrooxidation and determination at carbon nanotubes. <i>Analyst</i> , The, 2016, 141, 2405-2411.	3.5	5

#	ARTICLE	IF	CITATIONS
289	Automated capillary liquid chromatography for high sensitivity amino acid monitoring. <i>Journal of Separation Science</i> , 2001, 13, 24-32.	1.0	4
290	A CE assay for the detection of agonist-stimulated adenylyl cyclase activity. <i>Electrophoresis</i> , 2007, 28, 1913-1920.	2.4	4
291	Inability of Human Immunodeficiency Virus Type 1 Produced in Murine Cells To Selectively Incorporate Primer atchmode documentclass[fleqn,10pt,legalpaper]{article} usepackage{amssymb} usepackage{amsfonts} usepackage{amsmath} pagestyle{empty} egin{document} ($\mathrm{tRNA}^{\mathrm{Lys}}$). <i>Journal of Virology</i> , 2008, 82, 12049-12059.	3.4	4
292	The Scope of Analytical Chemistry. <i>Analytical Chemistry</i> , 2015, 87, 6425-6425.	6.5	4
293	Ethanol-Induced Taurine Efflux. <i>Advances in Experimental Medicine and Biology</i> , 2003, , 485-492.	1.6	4
294	Development and characterization of "pull" sampling device with fast reaction quenching coupled to high-performance liquid chromatography for pharmaceutical process analytical technologies. <i>Journal of Chromatography A</i> , 2010, 1217, 7471-7477.	3.7	3
295	Using Electrophoretic Immunoassay to Monitor Hormone Secretion. <i>Methods in Molecular Biology</i> , 2017, 1547, 57-67.	0.9	3
296	Cocaine and desipramine elicit distinct striatal noradrenergic and behavioral responses in selectively bred obesity-resistant and obesity-prone rats. <i>Behavioural Brain Research</i> , 2018, 346, 137-143.	2.2	3
297	Detection and quantification of vitamins in microliter volumes of biological samples by LC-MS for clinical screening. <i>AIChE Journal</i> , 2018, 64, 3709-3718.	3.6	3
298	The 2019 Reviews Issue. <i>Analytical Chemistry</i> , 2019, 91, 1-1.	6.5	3
299	Bottom-up proteomics analysis of the secretome of murine islets of Langerhans in elevated glucose levels. <i>Analyst</i> , The, 2017, 142, 284-291.	3.5	2
300	2020 Reviews Issue. <i>Analytical Chemistry</i> , 2020, 92, 1-1.	6.5	2
301	Continuous and automated slug flow nanoextraction for rapid partition coefficient measurement. <i>Analyst</i> , The, 2021, 146, 5722-5731.	3.5	2
302	Identification, quantitation, and characterization of biomolecules by capillary electrophoretic analysis of binding interactions. <i>Electrophoresis</i> , 1999, 20, 3122-3133.	2.4	2
303	Effect of intracellular delivery of energy metabolites on intracellular Ca ²⁺ in mouse islets of Langerhans. <i>Life Sciences</i> , 2005, 77, 2986-2997.	4.3	1
304	Chapter 3.4 In vivo peptidomics: discovery and monitoring of neuropeptides using microdialysis and liquid chromatography with mass spectrometry. <i>Handbook of Behavioral Neuroscience</i> , 2006, 16, 279-295.	0.7	1
305	Introducing Issue 2 of <i>ACS Measurement Science Au</i> . <i>ACS Measurement Science Au</i> , 2021, 1, 46-47.	4.4	1
306	Measurement of Neuropeptides in Dialysate by LC-MS. <i>Neuromethods</i> , 2013, , 249-259.	0.3	1

#	ARTICLE	IF	CITATIONS
307	2021 Reviews Issue. Analytical Chemistry, 2021, 93, 1-2.	6.5	1
308	Identification of Isn1 and Sdt1 as glucose- and vitamin-regulated nicotinamide mononucleotide and nicotinic acid mononucleotide 5-kinases responsible for production of nicotinamide riboside and nicotinic acid riboside.. Journal of Biological Chemistry, 2010, 285, 3524.	3.4	0
309	Editorial overview. Current Opinion in Chemical Biology, 2013, 17, 776-778.	6.1	0
310	Pushing the boundaries of chromatography and electrophoresis—Honoring James Jorgenson on his 65th birthday. Journal of Chromatography A, 2017, 1523, 1-2.	3.7	0
311	LIQUID CHROMATOGRAPHY-MASS SPECTROMETRY ANALYSIS OF DIALYSATE AND APPLICATIONS WITH SELECTIVE NEURONAL STIMULATION. , 2017, , 171-192.		0
312	Ultrahigh Sensitivity Analysis of Amino Acids and Peptides by Capillary Liquid Chromatography with Electrochemical Detection. , 2002, , 52-82.		0
313	Achieving High Temporal Resolution for In Vivo Measurements by Microdialysis. Neuromethods, 2013, , 261-273.	0.3	0
314	Simultaneous, in vivo monitoring of 10 neurotransmitters in rat prelimbic cortex (PrL) reveals that systemic and local administration of the atypical antipsychotic olanzapine (olz) differentially altered only serotonin (5HT) levels. FASEB Journal, 2013, 27, 1100.9.	0.5	0
315	A Novel Radical SAM mechanism mediated by the Interferon-Inducible Protein Viperin. FASEB Journal, 2018, 32, 796.7.	0.5	0
316	Viperin: A Radical SAM-Dependent Approach in the Regulation of Farnesylpyrophosphate Synthase. FASEB Journal, 2018, 32, 526.11.	0.5	0