

# Robert T Kennedy

## List of Publications by Year in descending order

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315  
papers

20,509  
citations

8208

78  
h-index

18944

123  
g-index

329  
all docs

329  
docs citations

329  
times ranked

19609  
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.	3.3	833
2	Mesolimbic dopamine signals the value of work. Nature Neuroscience, 2016, 19, 117-126.	7.1	644
3	Dissociable dopamine dynamics for learning and motivation. Nature, 2019, 570, 65-70.	13.7	487
4	Detection and Imaging of Zinc Secretion from Pancreatic $\beta$ -Cells Using a New Fluorescent Zinc Indicator. Journal of the American Chemical Society, 2002, 124, 776-778.	6.6	395
5	Review of recent advances in analytical techniques for the determination of neurotransmitters. Analytica Chimica Acta, 2009, 653, 1-22.	2.6	328
6	Microcolumn separations and the analysis of single cells. Science, 1989, 246, 57-63.	6.0	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.	3.2	307
8	Capillary Electrophoresis. Analytical Chemistry, 1994, 66, 280-314.	3.2	298
9	Aptamers as Ligands in Affinity Probe Capillary Electrophoresis. Analytical Chemistry, 1998, 70, 4540-4545.	3.2	273
10	Designed Signaling Aptamers that Transduce Molecular Recognition to Changes in Fluorescence Intensity. Journal of the American Chemical Society, 2000, 122, 2469-2473.	6.6	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.	1.1	254
12	In Vivo Measurements of Neurotransmitters by Microdialysis Sampling. Analytical Chemistry, 2006, 78, 1391-1399.	3.2	251
13	Total insulin and IGF-I resistance in pancreatic $\beta$ cells causes overt diabetes. Nature Genetics, 2006, 38, 583-588.	9.4	239
14	Microfluidic Chip for Continuous Monitoring of Hormone Secretion from Live Cells Using an Electrophoresis-Based Immunoassay. Analytical Chemistry, 2003, 75, 4711-4717.	3.2	216
15	Disruption of leptin receptor expression in the pancreas directly affects $\beta$ cell growth and function in mice. Journal of Clinical Investigation, 2007, 117, 2860-2868.	3.9	211
16	Rapid immunoassays using capillary electrophoresis with fluorescence detection. Analytical Chemistry, 1993, 65, 3161-3165.	3.2	208
17	In Vivo Neurochemical Monitoring Using Benzoyl Chloride Derivatization and Liquid Chromatography-Mass Spectrometry. Analytical Chemistry, 2012, 84, 412-419.	3.2	204
18	Insulin-stimulated Insulin Secretion in Single Pancreatic Beta Cells. Journal of Biological Chemistry, 1999, 274, 6360-6365.	1.6	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.	3.2	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.	1.8	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.	3.2	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.	3.2	167
23	In vivomonitoring of amine neurotransmitters using microdialysis with on-line capillary electrophoresis. <i>Electrophoresis</i> , 2001, 22, 3668-3676.	1.3	155
24	Dynamic Observation of Dopamine Autoreceptor Effects in Rat Striatal Slices. <i>Journal of Neurochemistry</i> , 1992, 59, 449-455.	2.1	151
25	Profiling Targets of the Irreversible Palmitoylation Inhibitor 2-Bromopalmitate. <i>ACS Chemical Biology</i> , 2013, 8, 1912-1917.	1.6	151
26	Roles of Insulin Receptor Substrate-1, Phosphatidylinositol 3-Kinase, and Release of Intracellular Ca <sup>2+</sup> Stores in Insulin-stimulated Insulin Secretion in $\beta$ -Cells. <i>Journal of Biological Chemistry</i> , 2000, 275, 22331-22338.	1.6	149
27	Identification, quantitation, and characterization of biomolecules by capillary electrophoretic analysis of binding interactions. <i>Electrophoresis</i> , 1999, 20, 3122-3133.	1.3	148
28	Amperometric monitoring of chemical secretions from individual pancreatic .beta.-cells. <i>Analytical Chemistry</i> , 1993, 65, 1882-1887.	3.2	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.	3.2	143
30	A Single Mutation in the Nonamyloidogenic Region of Islet Amyloid Polypeptide Greatly Reduces Toxicity. <i>Biochemistry</i> , 2008, 47, 12680-12688.	1.2	142
31	LXR $\beta$ Is Required for Adipocyte Growth, Glucose Homeostasis, and $\beta$ Cell Function. <i>Journal of Biological Chemistry</i> , 2005, 280, 23024-23031.	1.6	138
32	Capillary LC-MS <sup>2</sup> at the Attomole Level for Monitoring and Discovering Endogenous Peptides in Microdialysis Samples Collected in Vivo. <i>Analytical Chemistry</i> , 2001, 73, 5005-5014.	3.2	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.	3.2	134
34	Monitoring Dopamine in Vivo by Microdialysis Sampling and On-Line CE-Laser-Induced Fluorescence. <i>Analytical Chemistry</i> , 2006, 78, 6717-6725.	3.2	134
35	Perfusion and chemical monitoring of living cells on a microfluidic chip. <i>Lab on A Chip</i> , 2005, 5, 56.	3.1	132
36	Vesicular Quantal Size Measured by Amperometry at Chromaffin, Mast, Pheochromocytoma, and Pancreatic $\beta$ -Cells. <i>Journal of Neurochemistry</i> , 1996, 66, 1914-1923.	2.1	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.	3.2	116
38	Extracellular pH Is Required for Rapid Release of Insulin from Zn <sup>2+</sup> Insulin Precipitates in $\beta$ -Cell Secretory Vesicles during Exocytosis. <i>Journal of the American Chemical Society</i> , 1996, 118, 1795-1796.	6.6	116
39	GABAB Receptors Mediate Motility Signals for Migrating Embryonic Cortical Cells. <i>Cerebral Cortex</i> , 2001, 11, 744-753.	1.6	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.	6.6	115
41	Recent advances in protein analysis by capillary and microchip electrophoresis. <i>Analyst, The</i> , 2017, 142, 1847-1866.	1.7	115
42	In vivo neurochemical monitoring by microdialysis and capillary separations. <i>Current Opinion in Chemical Biology</i> , 2002, 6, 659-665.	2.8	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.	3.2	113
44	Correlated Oscillations in Glucose Consumption, Oxygen Consumption, and Intracellular Free Ca <sup>2+</sup> in Single Islets of Langerhans. <i>Journal of Biological Chemistry</i> , 2000, 275, 6642-6650.	1.6	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.	3.2	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.	1.3	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.	3.3	109
48	Viral Vector-Mediated Overexpression of Estrogen Receptor- $\beta$ 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.	1.7	109
49	High-throughput automated post-processing of separation data. <i>Journal of Chromatography A</i> , 2004, 1040, 273-282.	1.8	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.	7.2	108
51	Quantitative analysis of individual neurons by open tubular liquid chromatography with voltammetric detection. <i>Analytical Chemistry</i> , 1989, 61, 436-441.	3.2	107
52	Improved Temporal Resolution for in Vivo Microdialysis by Using Segmented Flow. <i>Analytical Chemistry</i> , 2008, 80, 5607-5615.	3.2	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.	3.1	106
54	Microfluidic Electrophoresis Chip Coupled to Microdialysis for in Vivo Monitoring of Amino Acid Neurotransmitters. <i>Analytical Chemistry</i> , 2005, 77, 7702-7708.	3.2	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.	7.1	104
56	Imaging of Zn <sup>2+</sup> Release from Pancreatic $\hat{I}^2$ -Cells at the Level of Single Exocytotic Events. <i>Analytical Chemistry</i> , 2003, 75, 3468-3475.	3.2	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.	3.2	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.	2.1	100
59	Emerging trends in in vivo neurochemical monitoring by microdialysis. <i>Current Opinion in Chemical Biology</i> , 2013, 17, 860-867.	2.8	100
60	Metabolic Oscillations in $\hat{A}$ -Cells. <i>Diabetes</i> , 2002, 51, S152-S161.	0.3	98
61	Enkephalin Surges in Dorsal Neostriatum as a Signal to Eat. <i>Current Biology</i> , 2012, 22, 1918-1924.	1.8	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.	3.2	97
63	A droplet microfluidic platform for high-throughput photochemical reaction discovery. <i>Nature Communications</i> , 2020, 11, 6202.	5.8	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.	2.8	92
65	Strategies for low detection limit measurements with cyclic voltammetry. <i>Analytical Chemistry</i> , 1991, 63, 2965-2970.	3.2	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.	3.2	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.	3.2	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.	1.2	87
70	An Inexpensive, Open-Source USB Arduino Data Acquisition Device for Chemical Instrumentation. <i>Journal of Chemical Education</i> , 2016, 93, 1316-1319.	1.1	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.	1.3	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 <sup>2+</sup> -ATPase (SERCA)-2b and -3. <i>Diabetes</i> , 2004, 53, 1517-1525.	0.3	86

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73	Fully integrated microfluidic separations systems for biochemical analysis. <i>Journal of Chromatography A</i> , 2007, 1168, 170-188.	1.8	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.	3.2	86
75	Enabling Biocatalysis by High-Throughput Protein Engineering Using Droplet Microfluidics Coupled to Mass Spectrometry. <i>ACS Omega</i> , 2018, 3, 1498-1508.	1.6	86
76	Effects of Intravesicular H <sup>+</sup> and Extracellular H <sup>+</sup> and Zn <sup>2+</sup> on Insulin Secretion in Pancreatic Beta Cells. <i>Journal of Biological Chemistry</i> , 1997, 272, 31308-31314.	1.6	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.	1.8	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.	3.2	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.	3.2	80
80	Oxygen Microsensor and Its Application to Single Cells and Mouse Pancreatic Islets. <i>Analytical Chemistry</i> , 1999, 71, 3642-3649.	3.2	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.	3.2	79
82	Exposure to conditions of uncertainty promotes the pursuit of amphetamine. <i>Neuropsychopharmacology</i> , 2019, 44, 274-280.	2.8	79
83	Droplet Electrospray Ionization Mass Spectrometry for High Throughput Screening for Enzyme Inhibitors. <i>Analytical Chemistry</i> , 2014, 86, 9309-9314.	3.2	77
84	ASCT1 (Slc1a4) transporter is a physiologic regulator of brain $\alpha$ -serine and neurodevelopment. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 9628-9633.	3.3	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.	3.2	76
86	Selective preconcentration for capillary zone electrophoresis using protein G immunoaffinity capillary chromatography. <i>Electrophoresis</i> , 1995, 16, 549-556.	1.3	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.	3.2	75
88	Mass Spectrometry $\alpha$ -Sensor for in Vivo Acetylcholine Monitoring. <i>Analytical Chemistry</i> , 2012, 84, 4659-4664.	3.2	74
89	Metabolome Response to Glucose in the $\beta$ -Cell Line INS-1 832/13. <i>Journal of Biological Chemistry</i> , 2013, 288, 10923-10935.	1.6	74
90	Measurement of antibody-antigen dissociation constants using fast capillary electrophoresis with laser-induced fluorescence detection. <i>Electrophoresis</i> , 1997, 18, 112-117.	1.3	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.	0.3	73
92	Time-Resolved Microdialysis for In Vivo Neurochemical Measurements and Other Applications. <i>Annual Review of Analytical Chemistry</i> , 2008, 1, 627-661.	2.8	73
93	Age-dependent dopamine transporter dysfunction and Serine129 phospho- $\alpha$ -synuclein overload in G2019S LRRK2 mice. <i>Acta Neuropathologica Communications</i> , 2017, 5, 22.	2.4	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.	1.3	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.	3.2	72
96	Ruthenium catalyst for amperometric determination of insulin at physiological pH. <i>Journal of Electroanalytical Chemistry</i> , 1997, 425, 191-199.	1.9	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.	3.2	71
98	High-Throughput Nanoelectrospray Ionization-Mass Spectrometry Analysis of Microfluidic Droplet Samples. <i>Analytical Chemistry</i> , 2019, 91, 6645-6651.	3.2	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.	3.2	70
100	NAD <sup>+</sup> 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.	23.0	68
102	An immune-beige adipocyte communication via nicotinic acetylcholine receptor signaling. <i>Nature Medicine</i> , 2018, 24, 814-822.	15.2	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.	1.3	66
104	Identification and Quantification of Modified Nucleosides in <i>Saccharomyces cerevisiae</i> mRNAs. <i>ACS Chemical Biology</i> , 2019, 14, 1403-1409.	1.6	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.	1.3	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.	3.2	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.	0.7	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.	1.4	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.	1.8	63
110	Microfabrication and in Vivo Performance of a Microdialysis Probe with Embedded Membrane. <i>Analytical Chemistry</i> , 2016, 88, 1230-1237.	3.2	63
111	Advances in and prospects of microchip liquid chromatography. <i>TrAC - Trends in Analytical Chemistry</i> , 2016, 81, 110-117.	5.8	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.	3.2	61
113	Estradiol attenuates the K <sup>+</sup> -induced increase in extracellular GABA in rat striatum. <i>Synapse</i> , 2006, 59, 122-124.	0.6	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.	1.3	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.	3.3	58
117	On-line interface between microdialysis and capillary zone electrophoresis. <i>Analytica Chimica Acta</i> , 1995, 307, 217-225.	2.6	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.	0.7	57
119	Microdialysis Coupled with LC-MS/MS for In Vivo Neurochemical Monitoring. <i>AAPS Journal</i> , 2017, 19, 1284-1293.	2.2	57
120	Chemical phenomena in solid-state voltammetry in polymer solvents. <i>Journal of the American Chemical Society</i> , 1989, 111, 1614-1619.	6.6	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.	1.2	56
122	Simultaneous measurement of oxygen and dopamine: Coupling of oxygen consumption and neurotransmission. <i>Neuroscience</i> , 1992, 47, 603-612.	1.1	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.	1.3	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.	1.3	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.	1.2	55
126	Electrochemical Detection of Exocytosis at Single Rat Melanotrophs. <i>Analytical Chemistry</i> , 1995, 67, 3633-3637.	3.2	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.	1.6	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.	1.3	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.	3.2	54
130	X-Box Binding Protein 1 Is Essential for Insulin Regulation of Pancreatic $\beta$ -Cell Function. <i>Diabetes</i> , 2013, 62, 2439-2449.	0.3	54
131	Controlled release of biological molecules from conducting polymer modified electrodes. <i>Journal of Electroanalytical Chemistry</i> , 1994, 368, 329-332.	1.9	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.	1.3	53
133	Western Blotting Using Capillary Electrophoresis. <i>Analytical Chemistry</i> , 2011, 83, 1350-1355.	3.2	53
134	In vivo detection of optically-evoked opioid peptide release. <i>ELife</i> , 2018, 7, .	2.8	53
135	Identification of Isn1 and Sdt1 as Glucose- and Vitamin-regulated Nicotinamide Mononucleotide and Nicotinic Acid Mononucleotide 5 $\alpha$ -Nucleotidases Responsible for Production of Nicotinamide Riboside and Nicotinic Acid Riboside. <i>Journal of Biological Chemistry</i> , 2009, 284, 34861-34869.	1.6	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.	1.6	51
137	Chemical analysis of single neurons by open tubular liquid chromatography. <i>Mikrochimica Acta</i> , 1987, 92, 37-45.	2.5	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.	1.8	50
139	Serotonin signaling mediates protein valuation and aging. <i>ELife</i> , 2016, 5, .	2.8	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.	3.2	49
141	Microfabricated Sampling Probes for in Vivo Monitoring of Neurotransmitters. <i>Analytical Chemistry</i> , 2013, 85, 3828-3831.	3.2	49
142	Monitoring C-Peptide Storage and Secretion in Islet $\beta$ -Cells In Vitro and In Vivo. <i>Diabetes</i> , 2016, 65, 699-709.	0.3	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.	1.6	46
144	Glucose Metabolism, Islet Architecture, and Genetic Homogeneity in Imprinting of [Ca <sup>2+</sup> ] <sub>i</sub> and Insulin Rhythms in Mouse Islets. <i>PLoS ONE</i> , 2009, 4, e8428.	1.1	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.	1.3	44
146	Comparison of Amperometric Methods for Detection of Exocytosis from Single Pancreatic $\beta$ -Cells of Different Species. <i>Analytical Chemistry</i> , 1999, 71, 5551-5556.	3.2	44
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