

# Robert T Kennedy

## List of Publications by Citations

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312  
papers

17,213  
citations

74  
h-index

114  
g-index

328  
ext. papers

18,938  
ext. citations

6.8  
avg, IF

6.82  
L-index

#	Paper	IF	Citations
312	Temporally resolved catecholamine spikes correspond to single vesicle release from individual chromaffin cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1991</b> , 88, 10754-8	11.5	733
311	Mesolimbic dopamine signals the value of work. <i>Nature Neuroscience</i> , <b>2016</b> , 19, 117-26	25.5	402
310	Detection and imaging of zinc secretion from pancreatic beta-cells using a new fluorescent zinc indicator. <i>Journal of the American Chemical Society</i> , <b>2002</b> , 124, 776-8	16.4	350
309	Review of recent advances in analytical techniques for the determination of neurotransmitters. <i>Analytica Chimica Acta</i> , <b>2009</b> , 653, 1-22	6.6	291
308	Capillary electrophoresis. <i>Analytical Chemistry</i> , <b>1994</b> , 66, 280R-314R	7.8	287
307	Preparation and evaluation of packed capillary liquid chromatography columns with inner diameters from 20 to 50 micrometers. <i>Analytical Chemistry</i> , <b>1989</b> , 61, 1128-1135	7.8	283
306	Microcolumn separations and the analysis of single cells. <i>Science</i> , <b>1989</b> , 246, 57-63	33.3	280
305	Aptamers as ligands in affinity probe capillary electrophoresis. <i>Analytical Chemistry</i> , <b>1998</b> , 70, 4540-5	7.8	257
304	Designed Signaling Aptamers that Transduce Molecular Recognition to Changes in Fluorescence Intensity. <i>Journal of the American Chemical Society</i> , <b>2000</b> , 122, 2469-2473	16.4	256
303	Up-regulation of GLT1 expression increases glutamate uptake and attenuates the Huntington $\beta$ disease phenotype in the R6/2 mouse. <i>Neuroscience</i> , <b>2008</b> , 153, 329-37	3.9	231
302	In vivo measurements of neurotransmitters by microdialysis sampling. <i>Analytical Chemistry</i> , <b>2006</b> , 78, 1391-9	7.8	229
301	Total insulin and IGF-I resistance in pancreatic beta cells causes overt diabetes. <i>Nature Genetics</i> , <b>2006</b> , 38, 583-8	36.3	217
300	Dissociable dopamine dynamics for learning and motivation. <i>Nature</i> , <b>2019</b> , 570, 65-70	50.4	204
299	Microfluidic chip for continuous monitoring of hormone secretion from live cells using an electrophoresis-based immunoassay. <i>Analytical Chemistry</i> , <b>2003</b> , 75, 4711-7	7.8	198
298	Rapid immunoassays using capillary electrophoresis with fluorescence detection. <i>Analytical Chemistry</i> , <b>1993</b> , 65, 3161-3165	7.8	192
297	Disruption of leptin receptor expression in the pancreas directly affects beta cell growth and function in mice. <i>Journal of Clinical Investigation</i> , <b>2007</b> , 117, 2860-8	15.9	181
296	In vivo neurochemical monitoring using benzoyl chloride derivatization and liquid chromatography-mass spectrometry. <i>Analytical Chemistry</i> , <b>2012</b> , 84, 412-9	7.8	178

295	Retention and separation of adenosine and analogues by affinity chromatography with an aptamer stationary phase. <i>Analytical Chemistry</i> , <b>2001</b> , 73, 5415-21	7.8	175
294	Insulin-stimulated insulin secretion in single pancreatic beta cells. <i>Journal of Biological Chemistry</i> , <b>1999</b> , 274, 6360-5	5.4	171
293	Reducing time and increasing sensitivity in sample preparation for adherent mammalian cell metabolomics. <i>Analytical Chemistry</i> , <b>2011</b> , 83, 3406-14	7.8	170
292	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> , <b>1997</b> , 69, 4560-5	7.8	155
291	In vivo monitoring of amine neurotransmitters using microdialysis with on-line capillary electrophoresis. <i>Electrophoresis</i> , <b>2001</b> , 22, 3668-76	3.6	144
290	Identification, quantitation, and characterization of biomolecules by capillary electrophoretic analysis of binding interactions. <i>Electrophoresis</i> , <b>1999</b> , 20, 3122-33	3.6	141
289	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> , <b>2000</b> , 275, 22331-8	5.4	136
288	Amperometric monitoring of chemical secretions from individual pancreatic beta-cells. <i>Analytical Chemistry</i> , <b>1993</b> , 65, 1882-7	7.8	134
287	A single mutation in the nonamyloidogenic region of islet amyloid polypeptide greatly reduces toxicity. <i>Biochemistry</i> , <b>2008</b> , 47, 12680-8	3.2	128
286	Monitoring dopamine in vivo by microdialysis sampling and on-line CE-laser-induced fluorescence. <i>Analytical Chemistry</i> , <b>2006</b> , 78, 6717-25	7.8	128
285	LXRbeta is required for adipocyte growth, glucose homeostasis, and beta cell function. <i>Journal of Biological Chemistry</i> , <b>2005</b> , 280, 23024-31	5.4	128
284	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> , <b>1996</b> , 68, 2790-7	7.8	126
283	Benzoyl chloride derivatization with liquid chromatography-mass spectrometry for targeted metabolomics of neurochemicals in biological samples. <i>Journal of Chromatography A</i> , <b>2016</b> , 1446, 78-90	4.5	126
282	Dynamic observation of dopamine autoreceptor effects in rat striatal slices. <i>Journal of Neurochemistry</i> , <b>1992</b> , 59, 449-55	6	124
281	Capillary LC-MS2 at the attomole level for monitoring and discovering endogenous peptides in microdialysis samples collected in vivo. <i>Analytical Chemistry</i> , <b>2001</b> , 73, 5005-14	7.8	123
280	Quantitative monitoring of insulin secretion from single islets of Langerhans in parallel on a microfluidic chip. <i>Analytical Chemistry</i> , <b>2009</b> , 81, 3119-27	7.8	120
279	Perfusion and chemical monitoring of living cells on a microfluidic chip. <i>Lab on A Chip</i> , <b>2005</b> , 5, 56-63	7.2	117
278	Capillary electrophoresis-based immunoassay to determine insulin content and insulin secretion from single islets of Langerhans. <i>Analytical Chemistry</i> , <b>1995</b> , 67, 924-9	7.8	107

277	Profiling targets of the irreversible palmitoylation inhibitor 2-bromopalmitate. <i>ACS Chemical Biology</i> , <b>2013</b> , 8, 1912-7	4.9	105
276	Metabolomic analysis of eukaryotic tissue and prokaryotes using negative mode MALDI time-of-flight mass spectrometry. <i>Analytical Chemistry</i> , <b>2005</b> , 77, 2201-9	7.8	105
275	High-throughput automated post-processing of separation data. <i>Journal of Chromatography A</i> , <b>2004</b> , 1040, 273-82	4.5	105
274	Vesicular quantal size measured by amperometry at chromaffin, mast, pheochromocytoma, and pancreatic beta-cells. <i>Journal of Neurochemistry</i> , <b>1996</b> , 66, 1914-23	6	105
273	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> , <b>2002</b> , 114, 39-49	3	104
272	In vivo neurochemical monitoring by microdialysis and capillary separations. <i>Current Opinion in Chemical Biology</i> , <b>2002</b> , 6, 659-65	9.7	103
271	Extracellular pH Is Required for Rapid Release of Insulin from ZnInsulin Precipitates in ECell Secretory Vesicles during Exocytosis. <i>Journal of the American Chemical Society</i> , <b>1996</b> , 118, 1795-1796	16.4	103
270	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> , <b>1999</b> , 121, 9781-9	16.4	102
269	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> , <b>1995</b> , 92, 9608-12	11.5	101
268	GABA(B) receptors mediate motility signals for migrating embryonic cortical cells. <i>Cerebral Cortex</i> , <b>2001</b> , 11, 744-53	5.1	100
267	Improved temporal resolution for in vivo microdialysis by using segmented flow. <i>Analytical Chemistry</i> , <b>2008</b> , 80, 5607-15	7.8	99
266	Serial immunoassays in parallel on a microfluidic chip for monitoring hormone secretion from living cells. <i>Analytical Chemistry</i> , <b>2007</b> , 79, 947-54	7.8	98
265	Correlated oscillations in glucose consumption, oxygen consumption, and intracellular free Ca(2+) in single islets of Langerhans. <i>Journal of Biological Chemistry</i> , <b>2000</b> , 275, 6642-50	5.4	95
264	Microfluidic electrophoresis chip coupled to microdialysis for in vivo monitoring of amino acid neurotransmitters. <i>Analytical Chemistry</i> , <b>2005</b> , 77, 7702-8	7.8	94
263	Viral vector-mediated overexpression of estrogen receptor-alpha in striatum enhances the estradiol-induced motor activity in female rats and estradiol-modulated GABA release. <i>Journal of Neuroscience</i> , <b>2009</b> , 29, 1897-903	6.6	93
262	Microfluidic chip for high efficiency electrophoretic analysis of segmented flow from a microdialysis probe and in vivo chemical monitoring. <i>Analytical Chemistry</i> , <b>2009</b> , 81, 9072-8	7.8	91
261	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> , <b>1998</b> , 70, 617-25	6	90
260	Imaging of Zn2+ release from pancreatic beta-cells at the level of single exocytotic events. <i>Analytical Chemistry</i> , <b>2003</b> , 75, 3468-75	7.8	89

259	Detection of secretion from single pancreatic beta-cells using extracellular fluorogenic reactions and confocal fluorescence microscopy. <i>Analytical Chemistry</i> , <b>2000</b> , 72, 711-7	7.8	89
258	Recent advances in protein analysis by capillary and microchip electrophoresis. <i>Analyst, The</i> , <b>2017</b> , 142, 1847-1866	5	85
257	Effect of buffer, electric field, and separation time on detection of aptamer-ligand complexes for affinity probe capillary electrophoresis. <i>Electrophoresis</i> , <b>2003</b> , 24, 1375-82	3.6	84
256	Enkephalin surges in dorsal neostriatum as a signal to eat. <i>Current Biology</i> , <b>2012</b> , 22, 1918-24	6.3	83
255	Microfluidic chip for low-flow push-pull perfusion sampling in vivo with on-line analysis of amino acids. <i>Analytical Chemistry</i> , <b>2005</b> , 77, 7067-73	7.8	83
254	Quantitative analysis of individual neurons by open tubular liquid chromatography with voltammetric detection. <i>Analytical Chemistry</i> , <b>1989</b> , 61, 436-41	7.8	83
253	Metabolic oscillations in beta-cells. <i>Diabetes</i> , <b>2002</b> , 51 Suppl 1, S152-61	0.9	82
252	On-line competitive immunoassay for insulin based on capillary electrophoresis with laser-induced fluorescence detection. <i>Analytical Chemistry</i> , <b>1996</b> , 68, 3899-906	7.8	82
251	Strategies for low detection limit measurements with cyclic voltammetry. <i>Analytical Chemistry</i> , <b>1991</b> , 63, 2965-70	7.8	81
250	Ratiometric fiber optic sensors for the detection of inter- and intra-cellular dissolved oxygen. <i>Journal of Materials Chemistry</i> , <b>2005</b> , 15, 2913		79
249	Aptamer affinity chromatography for rapid assay of adenosine in microdialysis samples collected in vivo. <i>Journal of Chromatography A</i> , <b>2003</b> , 1005, 123-30	4.5	79
248	Emerging trends in in vivo neurochemical monitoring by microdialysis. <i>Current Opinion in Chemical Biology</i> , <b>2013</b> , 17, 860-7	9.7	78
247	Identification of Isn1 and Sdt1 as glucose- and vitamin-regulated nicotinamide mononucleotide and nicotinic acid mononucleotide 5?-nucleotidases responsible for production of nicotinamide riboside and nicotinic acid riboside.. <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 3524	5.4	78
246	Leptin-inhibited PBN neurons enhance responses to hypoglycemia in negative energy balance. <i>Nature Neuroscience</i> , <b>2014</b> , 17, 1744-1750	25.5	77
245	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> , <b>2004</b> , 53, 1517-25	0.9	77
244	Fully integrated microfluidic separations systems for biochemical analysis. <i>Journal of Chromatography A</i> , <b>2007</b> , 1168, 170-88; discussion 169	4.5	76
243	Oxygen microsensor and its application to single cells and mouse pancreatic islets. <i>Analytical Chemistry</i> , <b>1999</b> , 71, 3642-9	7.8	76
242	Sampling and electrophoretic analysis of segmented flow streams using virtual walls in a microfluidic device. <i>Analytical Chemistry</i> , <b>2008</b> , 80, 8231-8	7.8	75

241	Rapid dopamine transmission within the nucleus accumbens: dramatic difference between morphine and oxycodone delivery. <i>European Journal of Neuroscience</i> , <b>2014</b> , 40, 3041-3054	3.5	74
240	Push-pull perfusion sampling with segmented flow for high temporal and spatial resolution in vivo chemical monitoring. <i>Analytical Chemistry</i> , <b>2011</b> , 83, 5207-13	7.8	74
239	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> , <b>1997</b> , 272, 31308-14	5.4	74
238	Analysis of samples stored as individual plugs in a capillary by electrospray ionization mass spectrometry. <i>Analytical Chemistry</i> , <b>2009</b> , 81, 6558-61	7.8	73
237	Forebrain deletion of the dystonia protein torsinA causes dystonic-like movements and loss of striatal cholinergic neurons. <i>ELife</i> , <b>2015</b> , 4, e08352	8.9	72
236	Label free screening of enzyme inhibitors at femtomole scale using segmented flow electrospray ionization mass spectrometry. <i>Analytical Chemistry</i> , <b>2012</b> , 84, 5794-800	7.8	70
235	Practical aspects of in vivo detection of neuropeptides by microdialysis coupled off-line to capillary LC with multistage MS. <i>Analytical Chemistry</i> , <b>2009</b> , 81, 2242-50	7.8	67
234	Ruthenium catalyst for amperometric determination of insulin at physiological pH. <i>Journal of Electroanalytical Chemistry</i> , <b>1997</b> , 425, 191-199	4.1	67
233	Measurement of antibody-antigen dissociation constants using fast capillary electrophoresis with laser-induced fluorescence detection. <i>Electrophoresis</i> , <b>1997</b> , 18, 112-7	3.6	66
232	Time-resolved microdialysis for in vivo neurochemical measurements and other applications. <i>Annual Review of Analytical Chemistry</i> , <b>2008</b> , 1, 627-61	12.5	66
231	Selective preconcentration for capillary zone electrophoresis using protein G immunoaffinity capillary chromatography. <i>Electrophoresis</i> , <b>1995</b> , 16, 549-56	3.6	66
230	Continuous-flow enzyme assay on a microfluidic chip for monitoring glycerol secretion from cultured adipocytes. <i>Analytical Chemistry</i> , <b>2009</b> , 81, 2350-6	7.8	65
229	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> , <b>2000</b> , 72, 865-71	7.8	64
228	Fast analytical-scale separations by capillary electrophoresis and liquid chromatography. <i>Chemical Reviews</i> , <b>1999</b> , 99, 3081-132	68.1	64
227	NAD <sup>+</sup> metabolite levels as a function of vitamins and calorie restriction: evidence for different mechanisms of longevity. <i>BMC Chemical Biology</i> , <b>2010</b> , 10, 2		63
226	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> , <b>2008</b> , 295, F1071-81	4.3	63
225	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> , <b>1989</b> , 61, 1577-1584	7.8	63
224	Exposure to conditions of uncertainty promotes the pursuit of amphetamine. <i>Neuropsychopharmacology</i> , <b>2019</b> , 44, 274-280	8.7	62

223	Melanin concentrating hormone is a novel regulator of islet function and growth. <i>Diabetes</i> , <b>2007</b> , 56, 311-9	0.9	62
222	Mass spectrometry "sensor" for in vivo acetylcholine monitoring. <i>Analytical Chemistry</i> , <b>2012</b> , 84, 4659-647.8		61
221	Negative mode sheathless capillary electrophoresis electrospray ionization-mass spectrometry for metabolite analysis of prokaryotes. <i>Journal of Chromatography A</i> , <b>2006</b> , 1106, 80-8	4.5	61
220	Droplet electrospray ionization mass spectrometry for high throughput screening for enzyme inhibitors. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 9309-14	7.8	59
219	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> , <b>2004</b> , 138, 189-97	3	59
218	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> , <b>1997</b> , 94, 6232-7	11.5	58
217	Discovery and neurochemical screening of peptides in brain extracellular fluid by chemical analysis of in vivo microdialysis samples. <i>Analytical Chemistry</i> , <b>2004</b> , 76, 5523-33	7.8	58
216	Mass Activated Droplet Sorting (MADS) Enables High-Throughput Screening of Enzymatic Reactions at Nanoliter Scale. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 4470-4477	16.4	58
215	An Inexpensive, Open-Source USB Arduino Data Acquisition Device for Chemical Instrumentation. <i>Journal of Chemical Education</i> , <b>2016</b> , 93, 1316-1319	2.4	57
214	Effects of intrathecally administered nociceptin/orphanin FQ in monkeys: behavioral and mass spectrometric studies. <i>Journal of Pharmacology and Experimental Therapeutics</i> , <b>2006</b> , 318, 1257-64	4.7	57
213	Rapid determination of aspartate enantiomers in tissue samples by microdialysis coupled on-line with capillary electrophoresis. <i>Analytical Chemistry</i> , <b>1999</b> , 71, 2379-84	7.8	57
212	Metabolome response to glucose in the cell line INS-1 832/13. <i>Journal of Biological Chemistry</i> , <b>2013</b> , 288, 10923-35	5.4	56
211	Estradiol attenuates the K <sup>+</sup> -induced increase in extracellular GABA in rat striatum. <i>Synapse</i> , <b>2006</b> , 59, 122-4	2.4	56
210	Behavior-related alterations of striatal neurochemistry in a mouse model of stereotyped movement disorder. <i>Pharmacology Biochemistry and Behavior</i> , <b>2004</b> , 77, 501-7	3.9	56
209	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> , <b>2005</b> , 40, 146-53	2.2	56
208	On-line interface between microdialysis and capillary zone electrophoresis. <i>Analytica Chimica Acta</i> , <b>1995</b> , 307, 217-225	6.6	55
207	Ventral tegmental area neurotensin signaling links the lateral hypothalamus to locomotor activity and striatal dopamine efflux in male mice. <i>Endocrinology</i> , <b>2015</b> , 156, 1692-700	4.8	54
206	Rapid simultaneous determination of glucagon and insulin by capillary electrophoresis immunoassays. <i>Biomedical Applications</i> , <b>2000</b> , 742, 353-62		54

205	Enabling Biocatalysis by High-Throughput Protein Engineering Using Droplet Microfluidics Coupled to Mass Spectrometry. <i>ACS Omega</i> , <b>2018</b> , 3, 1498-1508	3.9	53
204	Advances in and prospects of microchip liquid chromatography. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2016</b> , 81, 110-117	14.6	53
203	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> , <b>2004</b> , 18, 1193-200	2.2	53
202	Electrochemical detection of exocytosis at single rat melanotrophs. <i>Analytical Chemistry</i> , <b>1995</b> , 67, 3633-78		53
201	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> , <b>1997</b> , 72, 153-9	3	51
200	In vitro characterization of the interaction between HIV-1 Gag and human lysyl-tRNA synthetase. <i>Journal of Biological Chemistry</i> , <b>2006</b> , 281, 19449-56	5.4	51
199	Antigen-antibody interactions in capillary electrophoresis. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , <b>2002</b> , 768, 93-103	3.2	51
198	Collection of nanoliter microdialysate fractions in plugs for off-line in vivo chemical monitoring with up to 2 s temporal resolution. <i>Journal of Neuroscience Methods</i> , <b>2010</b> , 190, 39-48	3	50
197	Age-dependent dopamine transporter dysfunction and Serine129 phospho- $\alpha$ -synuclein overload in G2019S LRRK2 mice. <i>Acta Neuropathologica Communications</i> , <b>2017</b> , 5, 22	7.3	49
196	Microfabrication and in Vivo Performance of a Microdialysis Probe with Embedded Membrane. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 1230-7	7.8	49
195	On-line competitive immunoassay based on capillary electrophoresis applied to monitoring insulin secretion from single islets of Langerhans. <i>Electrophoresis</i> , <b>1998</b> , 19, 403-8	3.6	49
194	Controlled release of biological molecules from conducting polymer modified electrodes. <i>Journal of Electroanalytical Chemistry</i> , <b>1994</b> , 368, 329-332	4.1	49
193	Simultaneous measurement of oxygen and dopamine: coupling of oxygen consumption and neurotransmission. <i>Neuroscience</i> , <b>1992</b> , 47, 603-12	3.9	49
192	Fraction collection from capillary liquid chromatography and off-line electrospray ionization mass spectrometry using oil segmented flow. <i>Analytical Chemistry</i> , <b>2010</b> , 82, 5260-7	7.8	48
191	Western blotting using capillary electrophoresis. <i>Analytical Chemistry</i> , <b>2011</b> , 83, 1350-5	7.8	46
190	Microdialysis coupled on-line to capillary liquid chromatography with tandem mass spectrometry for monitoring acetylcholine in vivo. <i>Journal of Neuroscience Methods</i> , <b>2007</b> , 159, 86-92	3	46
189	Chemical phenomena in solid-state voltammetry in polymer solvents. <i>Journal of the American Chemical Society</i> , <b>1989</b> , 111, 1614-1619	16.4	46
188	High-throughput screening by droplet microfluidics: perspective into key challenges and future prospects. <i>Lab on A Chip</i> , <b>2020</b> , 20, 2247-2262	7.2	45



187	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> , <b>2006</b> , 78, 4342-51	7.8	45
186	Identification of Isn1 and Sdt1 as glucose- and vitamin-regulated nicotinamide mononucleotide and nicotinic acid mononucleotide [corrected] 5Pnucleotidases responsible for production of nicotinamide riboside and nicotinic acid riboside. <i>Journal of Biological Chemistry</i> , <b>2009</b> , 284, 34861-9	5.4	44
185	Automated capillary liquid chromatography for simultaneous determination of neuroactive amines and amino acids. <i>Journal of Chromatography A</i> , <b>2002</b> , 962, 105-15	4.5	44
184	In Vivo Chemical Monitoring at High Spatiotemporal Resolution Using Microfabricated Sampling Probes and Droplet-Based Microfluidics Coupled to Mass Spectrometry. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 10943-10950	7.8	43
183	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> , <b>2014</b> , 289, 13575-88	5.4	42
182	X-box binding protein 1 is essential for insulin regulation of pancreatic $\beta$ cell function. <i>Diabetes</i> , <b>2013</b> , 62, 2439-49	0.9	41
181	Comparison of amperometric methods for detection of exocytosis from single pancreatic beta-cells of different species. <i>Analytical Chemistry</i> , <b>1999</b> , 71, 5551-6	7.8	41
180	Detection of multiple patterns of oscillatory oxygen consumption in single mouse islets of Langerhans. <i>Biochemical and Biophysical Research Communications</i> , <b>1999</b> , 259, 331-5	3.4	41
179	Quantitative in vivo measurements using microdialysis on-line with capillary zone electrophoresis. <i>Journal of Neuroscience Methods</i> , <b>1995</b> , 63, 147-52	3	41
178	High-Throughput Nanoelectrospray Ionization-Mass Spectrometry Analysis of Microfluidic Droplet Samples. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 6645-6651	7.8	40
177	Leptin promotes dopamine transporter and tyrosine hydroxylase activity in the nucleus accumbens of Sprague-Dawley rats. <i>Journal of Neurochemistry</i> , <b>2010</b> , 114, 666-74	6	39
176	Multiplexed detection of protein-peptide interaction and inhibition using capillary electrophoresis. <i>Analytical Chemistry</i> , <b>2007</b> , 79, 1690-5	7.8	39
175	An immune-beige adipocyte communication via nicotinic acetylcholine receptor signaling. <i>Nature Medicine</i> , <b>2018</b> , 24, 814-822	50.5	39
174	Microdialysis Coupled with LC-MS/MS for In Vivo Neurochemical Monitoring. <i>AAPS Journal</i> , <b>2017</b> , 19, 1284-1293	3.7	38
173	Western blotting using microchip electrophoresis interfaced to a protein capture membrane. <i>Analytical Chemistry</i> , <b>2013</b> , 85, 6073-9	7.8	37
172	Sample-dependent effects on the neuropeptidome detected in rat brain tissue preparations by capillary liquid chromatography with tandem mass spectrometry. <i>Analytical Chemistry</i> , <b>2005</b> , 77, 6331-8	7.8	37
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29	Repeatability of gradient ultrahigh pressure liquid chromatography-tandem mass spectrometry methods in instrument-controlled thermal environments. <i>Journal of Chromatography A</i> , <b>2016</b> , 1461, 42-50	4.5	4
28	Ethanol-Induced Taurine Efflux. <i>Advances in Experimental Medicine and Biology</i> , <b>2003</b> , 485-492	3.6	4
27	Hormone glucagon: electrooxidation and determination at carbon nanotubes. <i>Analyst, The</i> , <b>2016</b> , 141, 2405-11	5	3
26	Development and characterization of "push-pull" sampling device with fast reaction quenching coupled to high-performance liquid chromatography for pharmaceutical process analytical technologies. <i>Journal of Chromatography A</i> , <b>2010</b> , 1217, 7471-7	4.5	3

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