Robert T Kennedy

List of Publications by Year in Descending Order

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	Mapping enzyme catalysis with metabolic biosensing. *Nature Communications*, **2021**, 12, 6803	17.4	2
311	Modifying Chromatography Conditions for Improved Unknown Feature Identification in Untargeted Metabolomics. *Analytical Chemistry*, **2021**, 93, 15840-15849	7.8	3
310	The antiviral enzyme viperin inhibits cholesterol biosynthesis. *Journal of Biological Chemistry*, **2021**, 297, 100824	5.4	1
309	Capillary ultrahigh-pressure liquid chromatography-mass spectrometry for fast and high resolution metabolomics separations. *Journal of Chromatography A*, **2021**, 1635, 461706	4.5	7
308	A microfluidic chip for on-line derivatization and application to in vivo neurochemical monitoring. *Analyst, The*, **2021**, 146, 825-834	5	3
307	Continuous and automated slug flow nanoextraction for rapid partition coefficient measurement. *Analyst, The*, **2021**, 146, 5722-5731	5	1
306	Acetylcholine-synthesizing macrophages in subcutaneous fat are regulated by β-adrenergic signaling. *EMBO Journal*, **2021**, e106061	13	5
305	Insulin receptor substrate 1, but not IRS2, plays a dominant role in regulating pancreatic alpha cell function in mice. *Journal of Biological Chemistry*, **2021**, 296, 100646	5.4	3
304	A droplet microfluidic platform for high-throughput photochemical reaction discovery. *Nature Communications*, **2020**, 11, 6202	17.4	33
303	High-throughput screening by droplet microfluidics: perspective into key challenges and future prospects. *Lab on A Chip*, **2020**, 20, 2247-2262	7.2	45
302	Fast Immunoassay for Microfluidic Western Blotting by Direct Deposition of Reagents onto Capture Membrane. *Analytical Methods*, **2020**, 12, 1606-1616	3.2	4
301	Targeting viperin to the mitochondrion inhibits the thiolase activity of the trifunctional enzyme complex. *Journal of Biological Chemistry*, **2020**, 295, 2839-2849	5.4	10
300	Liquid chromatography above 20,000 PSI. *TrAC - Trends in Analytical Chemistry*, **2020**, 124, 115810-115810	14.6	11
299	Interactions between Viperin, Vesicle-Associated Membrane Protein A, and Hepatitis C Virus Protein NS5A Modulate Viperin Activity and NS5A Degradation. *Biochemistry*, **2020**, 59, 780-789	3.2	7
298	Maladaptive consequences of repeated intermittent exposure to uncertainty. *Progress in Neuro-Psychopharmacology and Biological Psychiatry*, **2020**, 99, 109864	5.5	6
297	Mass Activated Droplet Sorting (MADS) Enables High-Throughput Screening of Enzymatic Reactions at Nanoliter Scale. *Angewandte Chemie*, **2020**, 132, 4500-4507	3.6	8
296	High-Throughput Liquid-Liquid Extractions with Nanoliter Volumes. *Analytical Chemistry*, **2020**, 92, 3189-3197	7.8	17

295	Ventromedial hypothalamic nucleus neuronal subset regulates blood glucose independently of insulin. *Journal of Clinical Investigation*, **2020**, 130, 2943-2952	15.9	19
294	The Delta-Specific Opioid Glycopeptide BBI-11008: CNS Penetration and Behavioral Analysis in a Preclinical Model of Levodopa-Induced Dyskinesia. *International Journal of Molecular Sciences*, **2020**, 22,	6.3	1
293	Mass Activated Droplet Sorting (MADS) Enables High-Throughput Screening of Enzymatic Reactions at Nanoliter Scale. *Angewandte Chemie - International Edition*, **2020**, 59, 4470-4477	16.4	58
292	Continuous glucose monitoring reveals glycemic variability and hypoglycemia after vertical sleeve gastrectomy in rats. *Molecular Metabolism*, **2020**, 32, 148-159	8.8	3
291	D-Serine Signaling and NMDAR-Mediated Synaptic Plasticity Are Regulated by System A-Type of Glutamine/D-Serine Dual Transporters. *Journal of Neuroscience*, **2020**, 40, 6489-6502	6.6	10
290	Ultrahigh-Performance capillary liquid chromatography-mass spectrometry at 35 kpsi for separation of lipids. *Journal of Chromatography A*, **2020**, 1611, 460575	4.5	12
289	Identification and Quantification of Modified Nucleosides in mRNAs. *ACS Chemical Biology*, **2019**, 14, 1403-1409	4.9	24
288	Dissociable dopamine dynamics for learning and motivation. *Nature*, **2019**, 570, 65-70	50.4	204
287	High-Throughput Nanoelectrospray Ionization-Mass Spectrometry Analysis of Microfluidic Droplet Samples. *Analytical Chemistry*, **2019**, 91, 6645-6651	7.8	40
286	Viperin interacts with the kinase IRAK1 and the E3 ubiquitin ligase TRAF6, coupling innate immune signaling to antiviral ribonucleotide synthesis. *Journal of Biological Chemistry*, **2019**, 294, 6888-6898	5.4	23
285	Incentive and dopamine sensitization produced by intermittent but not long access cocaine self-administration. *European Journal of Neuroscience*, **2019**, 50, 2663-2682	3.5	27
284	Exposure to conditions of uncertainty promotes the pursuit of amphetamine. *Neuropsychopharmacology*, **2019**, 44, 274-280	8.7	62
283	Varying the rate of intravenous cocaine infusion influences the temporal dynamics of both drug and dopamine concentrations in the striatum. *European Journal of Neuroscience*, **2019**, 50, 2054-2064	3.5	12
282	Use and Future Prospects of in Vivo Microdialysis for Epilepsy Studies. *ACS Chemical Neuroscience*, **2019**, 10, 1875-1883	5.7	12
281	Droplet sample introduction to microchip gel and zone electrophoresis for rapid analysis of protein-protein complexes and enzymatic reactions. *Analytical and Bioanalytical Chemistry*, **2019**, 411, 6155-6163	4.4	11
280	CE-MS with electrokinetic supercharging and application to determination of neurotransmitters. *Electrophoresis*, **2019**, 40, 2946-2953	3.6	8
279	Ruboxistaurin Reduces Cocaine-Stimulated Increases in Extracellular Dopamine by Modifying Dopamine-Autoreceptor Activity. *ACS Chemical Neuroscience*, **2019**, 10, 1960-1969	5.7	11
278	Chemical biomarkers of epileptogenesis and ictogenesis in experimental epilepsy. *Neurobiology of Disease*, **2019**, 121, 177-186	7.5	17

277	Enabling Biocatalysis by High-Throughput Protein Engineering Using Droplet Microfluidics Coupled to Mass Spectrometry. *ACS Omega*, **2018**, 3, 1498-1508	3.9	53
276	Islet proteomics reveals genetic variation in dopamine production resulting in altered insulin secretion. *Journal of Biological Chemistry*, **2018**, 293, 5860-5877	5.4	22
275	Microfabricated Probes for Studying Brain Chemistry: A Review. *ChemPhysChem*, **2018**, 19, 1128-1142	3.2	22
274	Microfluidic Chip with Integrated Electrophoretic Immunoassay for Investigating Cell-Cell Interactions. *Analytical Chemistry*, **2018**, 90, 5171-5178	7.8	26
273	Protein cross-linking capillary electrophoresis at increased throughput for a range of protein-protein interactions. *Analyst, The*, **2018**, 143, 1805-1812	5	10
272	In Vivo Chemical Monitoring at High Spatiotemporal Resolution Using Microfabricated Sampling Probes and Droplet-Based Microfluidics Coupled to Mass Spectrometry. *Analytical Chemistry*, **2018**, 90, 10943-10950	7.8	43
271	In vivo detection of optically-evoked opioid peptide release. *ELife*, **2018**, 7,	8.9	32
270	A Novel Radical SAM mechanism mediated by the Interferon-Inducible Protein Viperin. *FASEB Journal*, **2018**, 32, 796.7	0.9	
269	Viperin: A Radical SAM-dependent Approach in the Regulation of Farnesylpyrophosphate Synthase. *FASEB Journal*, **2018**, 32, 526.11	0.9	
268	Cocaine and desipramine elicit distinct striatal noradrenergic and behavioral responses in selectively bred obesity-resistant and obesity-prone rats. *Behavioural Brain Research*, **2018**, 346, 137-143	3.4	3
267	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. *ACS Chemical Neuroscience*, **2018**, 9, 715-724	5.7	14
266	ASCT1 (Slc1a4) transporter is a physiologic regulator of brain d-serine and neurodevelopment. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 9628-9633	11.5	36
265	An immune-beige adipocyte communication via nicotinic acetylcholine receptor signaling. *Nature Medicine*, **2018**, 24, 814-822	50.5	39
264	Detection and quantification of vitamins in microliter volumes of biological samples by LC-MS for clinical screening. *AICHE Journal*, **2018**, 64, 3709-3718	3.6	3
263	Using Electrophoretic Immunoassay to Monitor Hormone Secretion. *Methods in Molecular Biology*, **2017**, 1547, 57-67	1.4	2
262	Data representing two separate LC-MS methods for detection and quantification of water-soluble and fat-soluble vitamins in tears and blood serum. *Data in Brief*, **2017**, 11, 316-330	1.2	8
261	Recent advances in protein analysis by capillary and microchip electrophoresis. *Analyst, The*, **2017**, 142, 1847-1866	5	85
260	Direct and Systemic Administration of a CNS-Permeant Tamoxifen Analog Reduces Amphetamine-Induced Dopamine Release and Reinforcing Effects. *Neuropsychopharmacology*, **2017**, 42, 1940-1949	8.7	19

259	Advances in capillary electrophoresis and the implications for drug discovery. *Expert Opinion on Drug Discovery*, **2017**, 12, 213-224	6.2	31
258	Age-dependent dopamine transporter dysfunction and Serine129 phospho-α-synuclein overload in G2019S LRRK2 mice. *Acta Neuropathologica Communications*, **2017**, 5, 22	7.3	49
257	Determination of water-soluble and fat-soluble vitamins in tears and blood serum of infants and parents by liquid chromatography/mass spectrometry. *Experimental Eye Research*, **2017**, 155, 54-63	3.7	26
256	Bottom-up proteomics analysis of the secretome of murine islets of Langerhans in elevated glucose levels. *Analyst, The*, **2017**, 142, 284-291	5	2
255	Determination of amines and phenolic acids in wine with benzoyl chloride derivatization and liquid chromatography-mass spectrometry. *Journal of Chromatography A*, **2017**, 1523, 248-256	4.5	16
254	LIQUID CHROMATOGRAPHY-MASS SPECTROMETRY ANALYSIS OF DIALYSATE AND APPLICATIONS WITH SELECTIVE NEURONAL STIMULATION **2017**, 171-192		
253	Microdialysis Coupled with LC-MS/MS for In Vivo Neurochemical Monitoring. *AAPS Journal*, **2017**, 19, 1284-1293	3.7	38
252	Monitoring cell secretions on microfluidic chips using solid-phase extraction with mass spectrometry. *Analytical and Bioanalytical Chemistry*, **2017**, 409, 169-178	4.4	21
251	Design and microfabrication of a miniature fiber optic probe with integrated lenses and mirrors for Raman and fluorescence measurements. *Analytical and Bioanalytical Chemistry*, **2017**, 409, 275-285	4.4	7
250	Protein Cross-Linking Capillary Electrophoresis for Protein-Protein Interaction Analysis. *Analytical Chemistry*, **2016**, 88, 8272-8	7.8	14
249	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. *Molecular Metabolism*, **2016**, 5, 980-987	8.8	14
248	Does Viperin Function as a Radical S-Adenosyl-l-methionine-dependent Enzyme in Regulating Farnesylpyrophosphate Synthase Expression and Activity?. *Journal of Biological Chemistry*, **2016**, 291, 26806-26815	5.4	25
247	Pre-existing differences and diet-induced alterations in striatal dopamine systems of obesity-prone rats. *Obesity*, **2016**, 24, 670-7	8	22
246	Multiplexed Western Blotting Using Microchip Electrophoresis. *Analytical Chemistry*, **2016**, 88, 6703-10	7.8	30
245	An Inexpensive, Open-Source USB Arduino Data Acquisition Device for Chemical Instrumentation. *Journal of Chemical Education*, **2016**, 93, 1316-1319	2.4	57
244	Monitoring C-Peptide Storage and Secretion in Islet β-Cells In Vitro and In Vivo. *Diabetes*, **2016**, 65, 699-709	8.9	34
243	Identification of sirtuin 5 inhibitors by ultrafast microchip electrophoresis using nanoliter volume samples. *Analytical and Bioanalytical Chemistry*, **2016**, 408, 721-31	4.4	24
242	PKC-ι Inhibitors Attenuate Amphetamine-Stimulated Dopamine Efflux. *ACS Chemical Neuroscience*, **2016**, 7, 757-66	5.7	25

241	Sample preparation protocol for bottom-up proteomic analysis of the secretome of the islets of Langerhans. *Analyst, The*, **2016**, 141, 1700-6	5	11
240	Chronic Glucose Exposure Systematically Shifts the Oscillatory Threshold of Mouse Islets: Experimental Evidence for an Early Intrinsic Mechanism of Compensation for Hyperglycemia. *Endocrinology*, **2016**, 157, 611-23	4.8	22
239	Microfabrication and in Vivo Performance of a Microdialysis Probe with Embedded Membrane. *Analytical Chemistry*, **2016**, 88, 1230-7	7.8	49
238	The 2016 Annual Review Issue. *Analytical Chemistry*, **2016**, 88, 1-1	7.8	6
237	Hormone glucagon: electrooxidation and determination at carbon nanotubes. *Analyst, The*, **2016**, 141, 2405-11	5	3
236	Mesolimbic dopamine signals the value of work. *Nature Neuroscience*, **2016**, 19, 117-26	25.5	402
235	Advances in and prospects of microchip liquid chromatography. *TrAC - Trends in Analytical Chemistry*, **2016**, 81, 110-117	14.6	53
234	Serotonin signaling mediates protein valuation and aging. *ELife*, **2016**, 5,	8.9	28
233	Author response: Serotonin signaling mediates protein valuation and aging **2016**,		2
232	Blunted mGluR Activation Disinhibits Striatopallidal Transmission in Parkinsonian Mice. *Cell Reports*, **2016**, 17, 2431-2444	10.6	26
231	Benzoyl chloride derivatization with liquid chromatography-mass spectrometry for targeted metabolomics of neurochemicals in biological samples. *Journal of Chromatography A*, **2016**, 1446, 78-90	4.5	126
230	A Label-free Sirtuin 1 Assay based on Droplet-Electrospray Ionization Mass Spectrometry. *Analytical Methods*, **2016**, 8, 3458-3465	3.2	17
229	Repeatability of gradient ultrahigh pressure liquid chromatography-tandem mass spectrometry methods in instrument-controlled thermal environments. *Journal of Chromatography A*, **2016**, 1461, 42-50	4.5	4
228	Ventral tegmental area neurotensin signaling links the lateral hypothalamus to locomotor activity and striatal dopamine efflux in male mice. *Endocrinology*, **2015**, 156, 1692-700	4.8	54
227	Asphyxia-activated corticocardiac signaling accelerates onset of cardiac arrest. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, E2073-82	11.5	29
226	Reducing adsorption to improve recovery and in vivo detection of neuropeptides by microdialysis with LC-MS. *Analytical Chemistry*, **2015**, 87, 9802-9	7.8	33
225	Evaluation of 5 μm Superficially Porous Particles for Capillary and Microfluidic LC Columns. *Chromatography (Basel)*, **2015**, 2, 502-514		7
224	Biochemical indicators of implantation success of tissue-engineered oral mucosa. *Journal of Dental Research*, **2015**, 94, 78-84	8.1	12

223	New developments in Western blot technology. *Chinese Chemical Letters*, **2015**, 26, 416-418	8.1	9
222	Experimental evaluation and computational modeling of tissue damage from low-flow push-pull perfusion sampling in vivo. *Journal of Neuroscience Methods*, **2015**, 242, 97-105	3	14
221	Metabolomics Analysis Reveals that AICAR Affects Glycerolipid, Ceramide and Nucleotide Synthesis Pathways in INS-1 Cells. *PLoS ONE*, **2015**, 10, e0129029	3.7	17
220	Forebrain deletion of the dystonia protein torsinA causes dystonic-like movements and loss of striatal cholinergic neurons. *ELife*, **2015**, 4, e08352	8.9	72
219	Increased glucose metabolism and glycerolipid formation by fatty acids and GPR40 receptor signaling underlies the fatty acid potentiation of insulin secretion. *Journal of Biological Chemistry*, **2014**, 289, 13575-88	5.4	42
218	Leptin-inhibited PBN neurons enhance responses to hypoglycemia in negative energy balance. *Nature Neuroscience*, **2014**, 17, 1744-1750	25.5	77
217	Droplet electrospray ionization mass spectrometry for high throughput screening for enzyme inhibitors. *Analytical Chemistry*, **2014**, 86, 9309-14	7.8	59
216	Multiplexed microfluidic enzyme assays for simultaneous detection of lipolysis products from adipocytes. *Analytical and Bioanalytical Chemistry*, **2014**, 406, 4851-9	4.4	21
215	Synergistic activity between the delta-opioid agonist SNC80 and amphetamine occurs via a glutamatergic NMDA-receptor dependent mechanism. *Neuropharmacology*, **2014**, 77, 19-27	5.5	9
214	Subsecond electrophoretic separations from droplet samples for screening of enzyme modulators. *Analytical Chemistry*, **2014**, 86, 10373-9	7.8	27
213	Measurement of lipolysis products secreted by 3T3-L1 adipocytes using microfluidics. *Methods in Enzymology*, **2014**, 538, 195-209	1.7	13
212	Amphetamine stimulates movement through thalamocortical glutamate release. *Journal of Neurochemistry*, **2014**, 128, 152-61	6	16
211	Rapid dopamine transmission within the nucleus accumbens: dramatic difference between morphine and oxycodone delivery. *European Journal of Neuroscience*, **2014**, 40, 3041-3054	3.5	74
210	Rapid preconcentration for liquid chromatography-mass spectrometry assay of trace level neuropeptides. *Journal of the American Society for Mass Spectrometry*, **2013**, 24, 1700-9	3.5	19
209	Profiling targets of the irreversible palmitoylation inhibitor 2-bromopalmitate. *ACS Chemical Biology*, **2013**, 8, 1912-7	4.9	105
208	Catheter ablation of atrial fibrillation in the elderly: does the benefit outweigh the risk?. *Expert Review of Cardiovascular Therapy*, **2013**, 11, 697-704	2.5	15
207	Emerging trends in in vivo neurochemical monitoring by microdialysis. *Current Opinion in Chemical Biology*, **2013**, 17, 860-7	9.7	78
206	Development of a capillary electrophoresis platform for identifying inhibitors of protein-protein interactions. *Analytical Chemistry*, **2013**, 85, 9824-31	7.8	25

205	Chemical gradients within brain extracellular space measured using low flow push-pull perfusion sampling in vivo. *ACS Chemical Neuroscience*, **2013**, 4, 321-9	5.7	33
204	In vivo calibration of microdialysis using infusion of stable-isotope labeled neurotransmitters. *ACS Chemical Neuroscience*, **2013**, 4, 729-36	5.7	22
203	Western blotting using microchip electrophoresis interfaced to a protein capture membrane. *Analytical Chemistry*, **2013**, 85, 6073-9	7.8	37
202	Microfabricated sampling probes for in vivo monitoring of neurotransmitters. *Analytical Chemistry*, **2013**, 85, 3828-31	7.8	36
201	X-box binding protein 1 is essential for insulin regulation of pancreatic Ecell function. *Diabetes*, **2013**, 62, 2439-49	0.9	41
200	Capillary liquid chromatography fraction collection and postcolumn reaction using segmented flow microfluidics. *Journal of Separation Science*, **2013**, 36, 3471-7	3.4	6
199	Metabolome response to glucose in the Ecell line INS-1 832/13. *Journal of Biological Chemistry*, **2013**, 288, 10923-35	5.4	56
198	Achieving High Temporal Resolution for In Vivo Measurements by Microdialysis. *Neuromethods*, **2013**, 261-273	0.4	
197	Measurement of Neuropeptides in Dialysate by LC-MS. *Neuromethods*, **2013**, 249-259	0.4	
196	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	0.9	
195	Analysis of fatty acid composition in insulin secreting cells by comprehensive two-dimensional gas chromatography time-of-flight mass spectrometry. *Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences*, **2012**, 893-894, 187-92	3.2	10
194	Simultaneous oxytocin and arg-vasopressin measurements in microdialysates using capillary liquid chromatography-mass spectrometry. *Journal of Neuroscience Methods*, **2012**, 209, 127-33	3	30
193	Dynamic monitoring of glucagon secretion from living cells on a microfluidic chip. *Analytical and Bioanalytical Chemistry*, **2012**, 402, 2797-803	4.4	33
192	CNS penetration of the opioid glycopeptide MMP-2200: a microdialysis study. *Neuroscience Letters*, **2012**, 531, 99-103	3.3	18
191	In vivo neurochemical monitoring using benzoyl chloride derivatization and liquid chromatography-mass spectrometry. *Analytical Chemistry*, **2012**, 84, 412-9	7.8	178
190	Mass spectrometry "sensor" for in vivo acetylcholine monitoring. *Analytical Chemistry*, **2012**, 84, 4659-647.8		61
189	Enkephalin surges in dorsal neostriatum as a signal to eat. *Current Biology*, **2012**, 22, 1918-24	6.3	83
188	Label free screening of enzyme inhibitors at femtomole scale using segmented flow electrospray ionization mass spectrometry. *Analytical Chemistry*, **2012**, 84, 5794-800	7.8	70

187	Distinctive immunoregulatory effects of adenosine on T cells of older humans. *FASEB Journal*, **2012** , 26, 1301-10	0.9	12
186	Enhanced GLP-1- and sulfonylurea-induced insulin secretion in islets lacking leptin signaling. *Molecular Endocrinology*, **2012**, 26, 967-76		13
185	Western blotting using capillary electrophoresis. *Analytical Chemistry*, **2011**, 83, 1350-5	7.8	46
184	Microdialysis and mass spectrometric monitoring of dopamine and enkephalins in the globus pallidus reveal reciprocal interactions that regulate movement. *Journal of Neurochemistry*, **2011**, 118, 24-33	6	31
183	Collection, storage, and electrophoretic analysis of nanoliter microdialysis samples collected from awake animals in vivo. *Analytical and Bioanalytical Chemistry*, **2011**, 400, 2013-23	4.4	29
182	Reducing time and increasing sensitivity in sample preparation for adherent mammalian cell metabolomics. *Analytical Chemistry*, **2011**, 83, 3406-14	7.8	170
181	Push-pull perfusion sampling with segmented flow for high temporal and spatial resolution in vivo chemical monitoring. *Analytical Chemistry*, **2011**, 83, 5207-13	7.8	74
180	Leptin promotes dopamine transporter and tyrosine hydroxylase activity in the nucleus accumbens of Sprague-Dawley rats. *Journal of Neurochemistry*, **2010**, 114, 666-74	6	39
179	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.. *Journal of Biological Chemistry*, **2010**, 285, 3524	5.4	78
178	Fraction collection from capillary liquid chromatography and off-line electrospray ionization mass spectrometry using oil segmented flow. *Analytical Chemistry*, **2010**, 82, 5260-7	7.8	48
177	Sampling from nanoliter plugs via asymmetrical splitting of segmented flow. *Analytical Chemistry*, **2010**, 82, 7852-6	7.8	32
176	Parallel electrophoretic analysis of segmented samples on chip for high-throughput determination of enzyme activities. *Analytical Chemistry*, **2010**, 82, 9261-7	7.8	29
175	Reversibly sealed multilayer microfluidic device for integrated cell perfusion and on-line chemical analysis of cultured adipocyte secretions. *Analytical and Bioanalytical Chemistry*, **2010**, 397, 2939-47	4.4	24
174	Rapid and label-free screening of enzyme inhibitors using segmented flow electrospray ionization mass spectrometry. *Journal of the American Society for Mass Spectrometry*, **2010**, 21, 1107-13	3.5	36
173	Collection of nanoliter microdialysate fractions in plugs for off-line in vivo chemical monitoring with up to 2 s temporal resolution. *Journal of Neuroscience Methods*, **2010**, 190, 39-48	3	50
172	Development and characterization of "push-pull" sampling device with fast reaction quenching coupled to high-performance liquid chromatography for pharmaceutical process analytical technologies. *Journal of Chromatography A*, **2010**, 1217, 7471-7	4.5	3
171	NAD+ metabolite levels as a function of vitamins and calorie restriction: evidence for different mechanisms of longevity. *BMC Chemical Biology*, **2010**, 10, 2		63
170	Glucose metabolism, islet architecture, and genetic homogeneity in imprinting of [Ca2+](i) and insulin rhythms in mouse islets. *PLoS ONE*, **2009**, 4, e8428	3.7	34

169	Viral vector-mediated overexpression of estrogen receptor-alpha in striatum enhances the estradiol-induced motor activity in female rats and estradiol-modulated GABA release. *Journal of Neuroscience*, **2009**, 29, 1897-903	6.6	93
168	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. *Journal of Biological Chemistry*, **2009**, 284, 34861-9	5.4	44
167	Measurement of dissociation rate of biomolecular complexes using CE. *Electrophoresis*, **2009**, 30, 457-64	3.6	21
166	Review of recent advances in analytical techniques for the determination of neurotransmitters. *Analytica Chimica Acta*, **2009**, 653, 1-22	6.6	291
165	Analysis of samples stored as individual plugs in a capillary by electrospray ionization mass spectrometry. *Analytical Chemistry*, **2009**, 81, 6558-61	7.8	73
164	Continuous-flow enzyme assay on a microfluidic chip for monitoring glycerol secretion from cultured adipocytes. *Analytical Chemistry*, **2009**, 81, 2350-6	7.8	65
163	Continuous operation of microfabricated electrophoresis devices for 24 hours and application to chemical monitoring of living cells. *Analytical Chemistry*, **2009**, 81, 6837-42	7.8	35
162	Microfluidic chip for high efficiency electrophoretic analysis of segmented flow from a microdialysis probe and in vivo chemical monitoring. *Analytical Chemistry*, **2009**, 81, 9072-8	7.8	91
161	Practical aspects of in vivo detection of neuropeptides by microdialysis coupled off-line to capillary LC with multistage MS. *Analytical Chemistry*, **2009**, 81, 2242-50	7.8	67
160	Quantitative monitoring of insulin secretion from single islets of Langerhans in parallel on a microfluidic chip. *Analytical Chemistry*, **2009**, 81, 3119-27	7.8	120
159	The rate of intravenous cocaine administration alters c-fos mRNA expression and the temporal dynamics of dopamine, but not glutamate, overflow in the striatum. *Brain Research*, **2008**, 1209, 151-6	3.7	27
158	Time-resolved microdialysis for in vivo neurochemical measurements and other applications. *Annual Review of Analytical Chemistry*, **2008**, 1, 627-61	12.5	66
157	Up-regulation of GLT1 expression increases glutamate uptake and attenuates the Huntington's disease phenotype in the R6/2 mouse. *Neuroscience*, **2008**, 153, 329-37	3.9	231
156	Assay for glucosamine 6-phosphate using a ligand-activated ribozyme with fluorescence resonance energy transfer or CE-laser-induced fluorescence detection. *Analytical Chemistry*, **2008**, 80, 8195-201	7.8	6
155	Improved temporal resolution for in vivo microdialysis by using segmented flow. *Analytical Chemistry*, **2008**, 80, 5607-15	7.8	99
154	Sampling and electrophoretic analysis of segmented flow streams using virtual walls in a microfluidic device. *Analytical Chemistry*, **2008**, 80, 8231-8	7.8	75
153	A single mutation in the nonamyloidogenic region of islet amyloid polypeptide greatly reduces toxicity. *Biochemistry*, **2008**, 47, 12680-8	3.2	128
152	Capillary LC-MS for high sensitivity metabolomic analysis of single islets of Langerhans. *Analytical Chemistry*, **2008**, 80, 3539-46	7.8	17

151	Microfabricated channel array electrophoresis for characterization and screening of enzymes using RGS-G protein interactions as a model system. *Analytical Chemistry*, **2008**, 80, 5225-31	7.8	17
150	Electromechanical properties of pressure-actuated poly(dimethylsiloxane) microfluidic push-down valves. *Analytical Chemistry*, **2008**, 80, 6110-3	7.8	14
149	Inability of human immunodeficiency virus type 1 produced in murine cells to selectively incorporate primer formula. *Journal of Virology*, **2008**, 82, 12049-59	6.6	4
148	Rosiglitazone reduces renal and plasma markers of oxidative injury and reverses urinary metabolite abnormalities in the amelioration of diabetic nephropathy. *American Journal of Physiology - Renal Physiology*, **2008**, 295, F1071-81	4.3	63
147	Multiplexed detection and applications for separations on parallel microchips. *Electrophoresis*, **2008** , 29, 3296-305	3.6	21
146	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. *Journal of Chromatography A*, **2008**, 1194, 225-30	4.5	15
145	Temporal stability of the location of the esophagus in patients undergoing a repeat left atrial ablation procedure for atrial fibrillation or flutter. *Journal of Cardiovascular Electrophysiology*, **2008**, 19, 351-5	2.7	23
144	Serial immunoassays in parallel on a microfluidic chip for monitoring hormone secretion from living cells. *Analytical Chemistry*, **2007**, 79, 947-54	7.8	98
143	Capillary electrophoresis assay for G protein-coupled receptor-mediated GTPase activity. *Analytical Chemistry*, **2007**, 79, 1158-63	7.8	5
142	Detection of g protein coupled receptor mediated adenylyl cyclase activity by capillary electrophoresis using fluorescently labeled ATP. *Analytical Chemistry*, **2007**, 79, 7534-9	7.8	12
141	Multiplexed detection of protein-peptide interaction and inhibition using capillary electrophoresis. *Analytical Chemistry*, **2007**, 79, 1690-5	7.8	39
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