

Jonathan V Sweedler

List of Publications by Year in descending order

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695
papers

27,821
citations

6613

79
h-index

11052

137
g-index

718
all docs

718
docs citations

718
times ranked

24914
citing authors

#	ARTICLE	IF	CITATIONS
1	Insights into social insects from the genome of the honeybee <i>Apis mellifera</i> . <i>Nature</i> , 2006, 443, 931-949.	27.8	1,648
2	Analyses of pig genomes provide insight into porcine demography and evolution. <i>Nature</i> , 2012, 491, 393-398.	27.8	1,190
3	The Genome Sequence of Taurine Cattle: A Window to Ruminant Biology and Evolution. <i>Science</i> , 2009, 324, 522-528.	12.6	1,038
4	The genome of a songbird. <i>Nature</i> , 2010, 464, 757-762.	27.8	770
5	The ctenophore genome and the evolutionary origins of neural systems. <i>Nature</i> , 2014, 510, 109-114.	27.8	606
6	Chemistry and the BRAIN Initiative. <i>Journal of the American Chemical Society</i> , 2014, 136, 1-2.	13.7	364
7	Profiling metabolites and peptides in single cells. <i>Nature Methods</i> , 2011, 8, S20-S29.	19.0	311
8	From the Genome to the Proteome: Uncovering Peptides in the <i>Apis</i> Brain. <i>Science</i> , 2006, 314, 647-649.	12.6	309
9	MALDI-MS imaging of features smaller than the size of the laser beam. <i>Journal of the American Society for Mass Spectrometry</i> , 2005, 16, 1654-1659.	2.8	249
10	Genome-Wide Analyses Reveal a Role for Peptide Hormones in Planarian Germline Development. <i>PLoS Biology</i> , 2010, 8, e1000509.	5.6	249
11	High-Resolution NMR Spectroscopy of Sample Volumes from 1 nL to 10 μ L. <i>Chemical Reviews</i> , 1999, 99, 3133-3152.	47.7	239
12	Single-cell MALDI: a new tool for direct peptide profiling. <i>Trends in Biotechnology</i> , 2000, 18, 151-160.	9.3	236
13	NeuroPred: a tool to predict cleavage sites in neuropeptide precursors and provide the masses of the resulting peptides. <i>Nucleic Acids Research</i> , 2006, 34, W267-W272.	14.5	218
14	Gateable Nanofluidic Interconnects for Multilayered Microfluidic Separation Systems. <i>Analytical Chemistry</i> , 2003, 75, 1861-1867.	6.5	204
15	Heterogeneity within MALDI Samples As Revealed by Mass Spectrometric Imaging. <i>Analytical Chemistry</i> , 2000, 72, 30-36.	6.5	190
16	Circadian Rhythm of Redox State Regulates Excitability in Suprachiasmatic Nucleus Neurons. <i>Science</i> , 2012, 337, 839-842.	12.6	188
17	Imaging mass spectrometry: fundamentals and applications to drug discovery. <i>Drug Discovery Today</i> , 2005, 10, 823-837.	6.4	187
18	Capillary Electrophoresis with Electrospray Ionization Mass Spectrometric Detection for Single-Cell Metabolomics. <i>Analytical Chemistry</i> , 2009, 81, 5858-5864.	6.5	184

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19	Microfluidic devices for culturing primary mammalian neurons at low densities. <i>Lab on A Chip</i> , 2007, 7, 987.	6.0	179
20	Interfering with Nitric Oxide Measurements. <i>Journal of Biological Chemistry</i> , 2002, 277, 48472-48478.	3.4	177
21	The Enzyme Function Initiative. <i>Biochemistry</i> , 2011, 50, 9950-9962.	2.5	169
22	Nanofluidics in chemical analysis. <i>Chemical Society Reviews</i> , 2010, 39, 1060-1072.	38.1	168
23	Mass spectrometry imaging and profiling of single cells. <i>Journal of Proteomics</i> , 2012, 75, 5036-5051.	2.4	168
24	Categorizing Cells on the Basis of their Chemical Profiles: Progress in Single-Cell Mass Spectrometry. <i>Journal of the American Chemical Society</i> , 2017, 139, 3920-3929.	13.7	168
25	Discovering new invertebrate neuropeptides using mass spectrometry. <i>Mass Spectrometry Reviews</i> , 2006, 25, 77-98.	5.4	164
26	Spatial Profiling with MALDI MS: Distribution of Neuropeptides within Single Neurons. <i>Analytical Chemistry</i> , 2003, 75, 5374-5380.	6.5	157
27	Glial D-Serine Gates NMDA Receptors at Excitatory Synapses in Prefrontal Cortex. <i>Cerebral Cortex</i> , 2012, 22, 595-606.	2.9	154
28	Storage and Uptake of d-Serine into Astrocytic Synaptic-Like Vesicles Specify Gliotransmission. <i>Journal of Neuroscience</i> , 2013, 33, 3413-3423.	3.6	148
29	¹ H-NMR Spectroscopy on the Nanoliter Scale for Static and Online Measurements. <i>Analytical Chemistry</i> , 1994, 66, 3849-3857.	6.5	145
30	Rectangular capillaries for capillary zone electrophoresis. <i>Analytical Chemistry</i> , 1990, 62, 2149-2152.	6.5	138
31	Nanoliter Volume Sample cells for ¹ H NMR: Application to Online Detection in Capillary Electrophoresis. <i>Journal of the American Chemical Society</i> , 1994, 116, 7929-7930.	13.7	136
32	Peptides in the Brain: Mass Spectrometry-Based Measurement Approaches and Challenges. <i>Annual Review of Analytical Chemistry</i> , 2008, 1, 451-483.	5.4	136
33	Manipulating Molecular Transport through Nanoporous Membranes by Control of Electrokinetic Flow: Effect of Surface Charge Density and Debye Length. <i>Langmuir</i> , 2001, 17, 6298-6303.	3.5	132
34	Measuring the peptides in individual organelles with mass spectrometry. <i>Nature Biotechnology</i> , 2000, 18, 172-175.	17.5	131
35	Mass spectrometric investigation of the neuropeptide complement and release in the pericardial organs of the crab, <i>Cancer borealis</i> . <i>Journal of Neurochemistry</i> , 2003, 87, 642-656.	3.9	130
36	Three-dimensional mesostructures as high-temperature growth templates, electronic cellular scaffolds, and self-propelled microrobots. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E9455-E9464.	7.1	129

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37	Metabolic Differentiation of Neuronal Phenotypes by Single-cell Capillary Electrophoresis—Electrospray Ionization-Mass Spectrometry. <i>Analytical Chemistry</i> , 2011, 83, 6810-6817.	6.5	128
38	Experimental Factors Controlling Analyte Ion Generation in Laser Desorption/Ionization Mass Spectrometry on Porous Silicon. <i>Analytical Chemistry</i> , 2001, 73, 3639-3645.	6.5	127
39	Applications of charge transfer devices in spectroscopy. <i>Analytical Chemistry</i> , 1988, 60, 327A-335A.	6.5	126
40	Insulin Prohormone Processing, Distribution, and Relation to Metabolism in <i>Aplysia californica</i> . <i>Journal of Neuroscience</i> , 1999, 19, 7732-7741.	3.6	126
41	Quantitative peptidomics reveal brain peptide signatures of behavior. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 2383-2388.	7.1	125
42	Discovery of new enzymes and metabolic pathways by using structure and genome context. <i>Nature</i> , 2013, 502, 698-702.	27.8	124
43	Progress toward single cell metabolomics. <i>Current Opinion in Biotechnology</i> , 2013, 24, 95-104.	6.6	124
44	Miniaturized Lead Sensor Based on Lead-Specific DNAzyme in a Nanocapillary Interconnected Microfluidic Device. <i>Environmental Science & Technology</i> , 2005, 39, 3756-3761.	10.0	123
45	Patch Clamp Electrophysiology and Capillary Electrophoresis—Mass Spectrometry Metabolomics for Single Cell Characterization. <i>Analytical Chemistry</i> , 2014, 86, 3203-3208.	6.5	123
46	Vitamin E Imaging and Localization in the Neuronal Membrane. <i>Journal of the American Chemical Society</i> , 2005, 127, 12152-12153.	13.7	121
47	Mass Spectrometry Imaging of Complex Microbial Communities. <i>Accounts of Chemical Research</i> , 2017, 50, 96-104.	15.6	120
48	Immobilization of a Catalytic DNA Molecular Beacon on Au for Pb(II) Detection. <i>Analytical Chemistry</i> , 2005, 77, 442-448.	6.5	119
49	Design and fabrication of a multilayered polymer microfluidic chip with nanofluidic interconnects via adhesive contact printing. <i>Lab on A Chip</i> , 2006, 6, 667.	6.0	116
50	Qualitative and quantitative metabolomic investigation of single neurons by capillary electrophoresis electrospray ionization mass spectrometry. <i>Nature Protocols</i> , 2013, 8, 783-799.	12.0	116
51	Nanoliter-Volume ¹ H NMR Detection Using Periodic Stopped-Flow Capillary Electrophoresis. <i>Analytical Chemistry</i> , 1999, 71, 3070-3076.	6.5	111
52	Spatial profiling invertebrate ganglia using MALDI MS. <i>Journal of the American Society for Mass Spectrometry</i> , 2003, 14, 752-759.	2.8	110
53	High-Resolution Microcoil NMR for Analysis of Mass-Limited, Nanoliter Samples. <i>Analytical Chemistry</i> , 1998, 70, 645-650.	6.5	107
54	Hybrid three-dimensional nanofluidic/microfluidic devices using molecular gates. <i>Sensors and Actuators A: Physical</i> , 2003, 102, 223-233.	4.1	105

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55	d-Aspartate acts as a signaling molecule in nervous and neuroendocrine systems. <i>Amino Acids</i> , 2012, 43, 1873-1886.	2.7	105
56	Single Neuron Analysis by Capillary Electrophoresis with Fluorescence Spectroscopy. <i>Neuron</i> , 1998, 20, 173-181.	8.1	103
57	A protease for 'middle-down' proteomics. <i>Nature Methods</i> , 2012, 9, 822-824.	19.0	103
58	High-performance charge transfer device detectors. <i>Analytical Chemistry</i> , 1988, 60, 282A-291A.	6.5	102
59	Nanocapillary Array Interconnects for Gated Analyte Injections and Electrophoretic Separations in Multilayer Microfluidic Architectures. <i>Analytical Chemistry</i> , 2003, 75, 2224-2230.	6.5	101
60	Mass spectrometry-based discovery of circadian peptides. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 12527-12532.	7.1	101
61	Excess Salt Removal with Matrix Rinsing: Direct Peptide Profiling of Neurons from Marine Invertebrates Using Matrix-assisted Laser Desorption/Ionization Time-of-flight Mass Spectrometry. , 1996, 31, 1126-1130.		99
62	In Situ Sequencing of Peptides from Biological Tissues and Single Cells Using MALDI-TOF/MS/MS Analysis. <i>Analytical Chemistry</i> , 1999, 71, 5451-5458.	6.5	99
63	Independent Optimization of Capillary Electrophoresis Separation and Native Fluorescence Detection Conditions for Indolamine and Catecholamine Measurements. <i>Analytical Chemistry</i> , 1999, 71, 4997-5002.	6.5	99
64	Profiling Signaling Peptides in Single Mammalian Cells Using Mass Spectrometry. <i>Analytical Chemistry</i> , 2006, 78, 7267-7272.	6.5	96
65	Orcokinin peptides in developing and adult crustacean stomatogastric nervous systems and pericardial organs. <i>Journal of Comparative Neurology</i> , 2002, 444, 227-244.	1.6	95
66	Quantitative Measurements of Cell-Surface Cell Signaling Peptides with Single-Cell MALDI MS. <i>Analytical Chemistry</i> , 2008, 80, 7128-7136.	6.5	94
67	Nanofluidics: Systems and Applications. <i>IEEE Sensors Journal</i> , 2008, 8, 441-450.	4.7	93
68	On-Tissue Derivatization via Electrospray Deposition for Matrix-Assisted Laser Desorption/Ionization Mass Spectrometry Imaging of Endogenous Fatty Acids in Rat Brain Tissues. <i>Analytical Chemistry</i> , 2016, 88, 5988-5995.	6.5	93
69	On-line electrogenerated Ru(bpy) ₃ ³⁺ chemiluminescent detection of β -blockers separated with capillary electrophoresis. <i>Analytica Chimica Acta</i> , 1997, 347, 289-293.	5.4	92
70	Proteolytic processing of the Aplysia egg-laying hormone prohormone. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998, 95, 3972-3977.	7.1	92
71	From Hunger to Satiety: Reconfiguration of a Feeding Network by Aplysia Neuropeptide Y. <i>Journal of Neuroscience</i> , 2007, 27, 3490-3502.	3.6	92
72	Monitoring Temperature Changes in Capillary Electrophoresis with Nanoliter-Volume NMR Thermometry. <i>Analytical Chemistry</i> , 2000, 72, 4991-4998.	6.5	91

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73	Native fluorescence detection and spectral differentiation of peptides containing tryptophan and tyrosine in capillary electrophoresis. <i>Analytical Chemistry</i> , 1995, 67, 3421-3426.	6.5	89
74	Using microcontact printing to fabricate microcoils on capillaries for high resolution proton nuclear magnetic resonance on nanoliter volumes. <i>Applied Physics Letters</i> , 1997, 70, 2464-2466.	3.3	89
75	Micromixer-Based Time-Resolved NMR: Applications to Ubiquitin Protein Conformation. <i>Analytical Chemistry</i> , 2003, 75, 956-960.	6.5	86
76	Rapid Mitogenic Regulation of the mTORC1 Inhibitor, DEPTOR, by Phosphatidic Acid. <i>Molecular Cell</i> , 2015, 58, 549-556.	9.7	84
77	SIMS and MALDI MS imaging of the spinal cord. <i>Proteomics</i> , 2008, 8, 3746-3754.	2.2	83
78	Endogenous Peptide Discovery of the Rat Circadian Clock. <i>Molecular and Cellular Proteomics</i> , 2010, 9, 285-297.	3.8	83
79	Online NMR detection of amino acids and peptides in microbore LC. <i>Analytical Chemistry</i> , 1995, 67, 3101-3107.	6.5	82
80	Sample Concentration and Separation for Nanoliter-Volume NMR Spectroscopy Using Capillary Isotachopheresis. <i>Journal of the American Chemical Society</i> , 2001, 123, 3159-3160.	13.7	82
81	Lutein and Brain Function. <i>Foods</i> , 2015, 4, 547-564.	4.3	81
82	The Enterins: A Novel Family of Neuropeptides Isolated from the Enteric Nervous System and CNS of <i>Aplysia</i> . <i>Journal of Neuroscience</i> , 2001, 21, 8247-8261.	3.6	79
83	Single-Neuron Analysis Using CE Combined with MALDI MS and Radionuclide Detection. <i>Analytical Chemistry</i> , 2002, 74, 497-503.	6.5	79
84	Characterizing peptides in individual mammalian cells using mass spectrometry. <i>Nature Protocols</i> , 2007, 2, 1987-1997.	12.0	79
85	MALDI-guided SIMS: Multiscale Imaging of Metabolites in Bacterial Biofilms. <i>Analytical Chemistry</i> , 2014, 86, 9139-9145.	6.5	79
86	Lipid Heterogeneity between Astrocytes and Neurons Revealed by Single-Cell MALDI-MS Combined with Immunocytochemical Classification. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 5910-5914.	13.8	79
87	Classification of Large Cellular Populations and Discovery of Rare Cells Using Single Cell Matrix-Assisted Laser Desorption/Ionization Time-of-Flight Mass Spectrometry. <i>Analytical Chemistry</i> , 2015, 87, 7036-7042.	6.5	78
88	Microproteomics: Analysis of protein diversity in small samples. <i>Mass Spectrometry Reviews</i> , 2008, 27, 316-330.	5.4	77
89	Detection of nitric oxide in single cells. <i>Analyst</i> , 2008, 133, 423.	3.5	77
90	Ascorbic Acid Assays of Individual Neurons and Neuronal Tissues Using Capillary Electrophoresis with Laser-Induced Fluorescence Detection. <i>Analytical Chemistry</i> , 2002, 74, 5614-5620.	6.5	76

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91	Textural guidance cues for controlling process outgrowth of mammalian neurons. <i>Lab on A Chip</i> , 2009, 9, 122-131.	6.0	76
92	Wavelength-Resolved Fluorescence Detection in Capillary Electrophoresis. <i>Analytical Chemistry</i> , 1995, 67, 139-144.	6.5	75
93	Intraspecific variation of venom injected by fish-hunting Conus snails. <i>Journal of Experimental Biology</i> , 2005, 208, 2873-2883.	1.7	75
94	Discrete molecular states in the brain accompany changing responses to a vocal signal. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 11364-11369.	7.1	75
95	Multiple Solenoidal Microcoil Probes for High-Sensitivity, High-Throughput Nuclear Magnetic Resonance Spectroscopy. <i>Analytical Chemistry</i> , 1999, 71, 4815-4820.	6.5	73
96	Direct assay of <i>Aplysia</i> tissues and cells with laser desorption/ionization mass spectrometry on porous silicon. <i>Journal of Mass Spectrometry</i> , 2001, 36, 1317-1322.	1.6	73
97	A RubisCO-like protein links SAM metabolism with isoprenoid biosynthesis. <i>Nature Chemical Biology</i> , 2012, 8, 926-932.	8.0	73
98	Analysis of endogenous nucleotides by single cell capillary electrophoresis-mass spectrometry. <i>Analyst</i> , 2014, 139, 5835-5842.	3.5	73
99	Nanopipet-Based Liquid-Liquid Interface Probes for the Electrochemical Detection of Acetylcholine, Tryptamine, and Serotonin via Ionic Transfer. <i>Analytical Chemistry</i> , 2015, 87, 5095-5100.	6.5	73
100	Single Cell Peptide Heterogeneity of Rat Islets of Langerhans. <i>ACS Chemical Biology</i> , 2016, 11, 2588-2595.	3.4	73
101	Union of capillary high-performance liquid chromatography and microcoil nuclear magnetic resonance spectroscopy applied to the separation and identification of terpenoids. <i>Journal of Chromatography A</i> , 2001, 922, 139-149.	3.7	72
102	Dopamine-modified TiO ₂ monolith-assisted LDI MS imaging for simultaneous localization of small metabolites and lipids in mouse brain tissue with enhanced detection selectivity and sensitivity. <i>Chemical Science</i> , 2017, 8, 3926-3938.	7.4	72
103	Characterization of <i>Aplysia</i> Enticin and Temptin, Two Novel Water-borne Protein Pheromones That Act in Concert with Attractin to Stimulate Mate Attraction. <i>Journal of Biological Chemistry</i> , 2004, 279, 25614-25622.	3.4	71
104	Immobilization of DNAzyme catalytic beacons on PMMA for Pb ²⁺ detection. <i>Lab on A Chip</i> , 2008, 8, 786.	6.0	70
105	Peptidomics for the discovery and characterization of neuropeptides and hormones. <i>Trends in Pharmacological Sciences</i> , 2015, 36, 579-586.	8.7	70
106	A multichannel native fluorescence detection system for capillary electrophoretic analysis of neurotransmitters in single neurons. <i>Analytical and Bioanalytical Chemistry</i> , 2006, 387, 97-105.	3.7	69
107	A ^d -Amino Acid-Containing Neuropeptide Discovery Funnel. <i>Analytical Chemistry</i> , 2016, 88, 11868-11876.	6.5	69
108	Serotonin of mast cell origin contributes to hippocampal function. <i>European Journal of Neuroscience</i> , 2012, 36, 2347-2359.	2.6	68

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109	Hyphenation of capillary separations with nuclear magnetic resonance spectroscopy. <i>Journal of Chromatography A</i> , 2003, 1000, 819-840.	3.7	67
110	Single-Cell Metabolomics: Changes in the Metabolome of Freshly Isolated and Cultured Neurons. <i>ACS Chemical Neuroscience</i> , 2012, 3, 782-792.	3.5	67
111	Single Synaptic Observation of Cholinergic Neurotransmission on Living Neurons: Concentration and Dynamics. <i>Journal of the American Chemical Society</i> , 2018, 140, 7764-7768.	13.7	67
112	Subcellular Analysis of d-Aspartate. <i>Analytical Chemistry</i> , 2005, 77, 7190-7194.	6.5	66
113	Analysis of endogenous d-amino acid-containing peptides in Metazoa. <i>Bioanalytical Reviews</i> , 2009, 1, 7-24.	0.2	66
114	Incorporation of a DNzyme into Au-coated nanocapillary array membranes with an internal standard for Pb(II) sensing. <i>Analyst</i> , 2006, 131, 41-47.	3.5	65
115	Interrogation of spatial metabolome of <i>Ginkgo biloba</i> with high-resolution matrix-assisted laser desorption/ionization and laser desorption/ionization mass spectrometry imaging. <i>Plant, Cell and Environment</i> , 2018, 41, 2693-2703.	5.7	65
116	Exploring the Fundamental Structures of Life: Non-Targeted, Chemical Analysis of Single Cells and Subcellular Structures. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 9348-9364.	13.8	65
117	Distinguishing Endogenous d-Amino Acid-Containing Neuropeptides in Individual Neurons Using Tandem Mass Spectrometry. <i>Analytical Chemistry</i> , 2011, 83, 2794-2800.	6.5	64
118	Single-cell analysis at the threshold. <i>Nature Biotechnology</i> , 2016, 34, 1111-1118.	17.5	64
119	Microfluidic Separation and Gateable Fraction Collection for Mass-Limited Samples. <i>Analytical Chemistry</i> , 2004, 76, 6419-6425.	6.5	63
120	Non-Enzymatic Production of Nitric Oxide (NO) from NO Synthase Inhibitors. <i>Biochemical and Biophysical Research Communications</i> , 1998, 253, 571-576.	2.1	62
121	Nitrite and Nitrate Levels in Individual Molluscan Neurons: Single-Cell Capillary Electrophoresis Analysis. <i>Journal of Neurochemistry</i> , 1997, 69, 110-115.	3.9	62
122	Mass spectrometric imaging of peptide release from neuronal cells within microfluidic devices. <i>Lab on a Chip</i> , 2007, 7, 1454.	6.0	61
123	Base-induced delignification of <i>miscanthus x giganteus</i> studied by three-dimensional confocal Raman imaging. <i>Bioresource Technology</i> , 2010, 101, 4919-4925.	9.6	61
124	Biomolecular Imaging with a C60-SIMS/MALDI Dual Ion Source Hybrid Mass Spectrometer: Instrumentation, Matrix Enhancement, and Single Cell Analysis. <i>Journal of the American Society for Mass Spectrometry</i> , 2014, 25, 1897-1907.	2.8	61
125	Determination of salicylate, gentisic acid and salicylic acid in human urine by capillary electrophoresis with laser-induced fluorescence detection. <i>Biomedical Applications</i> , 2001, 752, 17-31.	1.7	60
126	Bridging Neuropeptidomics and Genomics with Bioinformatics: Prediction of Mammalian Neuropeptide Prohormone Processing. <i>Journal of Proteome Research</i> , 2006, 5, 1162-1167.	3.7	60

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127	Screening for post-translational modifications in conotoxins using liquid chromatography/mass spectrometry: an important component of conotoxin discovery. <i>Toxicon</i> , 2006, 47, 688-699.	1.6	60
128	Contributions of capillary electrophoresis to neuroscience. <i>Journal of Chromatography A</i> , 2008, 1184, 144-158.	3.7	60
129	Single Cell Profiling Using Ionic Liquid Matrix-Enhanced Secondary Ion Mass Spectrometry for Neuronal Cell Type Differentiation. <i>Analytical Chemistry</i> , 2017, 89, 3078-3086.	6.5	60
130	Neuropeptidomics of the Supraoptic Rat Nucleus. <i>Journal of Proteome Research</i> , 2008, 7, 4992-5003.	3.7	59
131	Mass spectrometric survey of interganglionically transported peptides in aplysia. <i>Peptides</i> , 1998, 19, 1425-1433.	2.4	58
132	Capillary Isotachopheresis/NMR: Extension to Trace Impurity Analysis and Improved Instrumental Coupling. <i>Analytical Chemistry</i> , 2002, 74, 2306-2313.	6.5	58
133	Microscale NMR. <i>Current Opinion in Chemical Biology</i> , 2002, 6, 711-716.	6.1	58
134	Prediction of neuropeptide cleavage sites in insects. <i>Bioinformatics</i> , 2008, 24, 815-825.	4.1	58
135	Transcriptional Orchestration of the Regulated Secretory Pathway in Neurons by the bHLH protein DIMM. <i>Current Biology</i> , 2010, 20, 9-18.	3.9	58
136	Correlated Imaging with C ₆₀ -SIMS and Confocal Raman Microscopy: Visualization of Cell-Scale Molecular Distributions in Bacterial Biofilms. <i>Analytical Chemistry</i> , 2014, 86, 10885-10891.	6.5	58
137	Multimodal chemical imaging of molecular messengers in emerging <i>Pseudomonas aeruginosa</i> bacterial communities. <i>Analyst</i> , The, 2015, 140, 6544-6552.	3.5	58
138	A Microcoil NMR Probe for Coupling Microscale HPLC with On-Line NMR Spectroscopy. <i>Analytical Chemistry</i> , 1999, 71, 5335-5339.	6.5	57
139	Nitric oxide regulates swimming in the jellyfish <i>Aequorea victoria</i> . <i>Journal of Comparative Neurology</i> , 2004, 471, 26-36.	1.6	57
140	MALDI MS Guided Liquid Microjunction Extraction for Capillary Electrophoresis-Electrospray Ionization MS Analysis of Single Pancreatic Islet Cells. <i>Analytical Chemistry</i> , 2017, 89, 7765-7772.	6.5	57
141	Profiling of Microbial Colonies for High-Throughput Engineering of Multistep Enzymatic Reactions via Optically Guided Matrix-Assisted Laser Desorption/Ionization Mass Spectrometry. <i>Journal of the American Chemical Society</i> , 2017, 139, 12466-12473.	13.7	57
142	Capillary Electrophoresis Analysis of Nitric Oxide Synthase Related Metabolites in Single Identified Neurons. <i>Analytical Chemistry</i> , 1998, 70, 2243-2247.	6.5	56
143	Analysis of cellular release using capillary electrophoresis and matrix assisted laser desorption/ionization-time of flight-mass spectrometry. <i>Electrophoresis</i> , 2001, 22, 3752-3758.	2.4	56
144	Determining sequences and post-translational modifications of novel conotoxins in <i>Conus victoriae</i> using cDNA sequencing and mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2004, 39, 548-557.	1.6	56

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145	Massively Parallel Sample Preparation for the MALDI MS Analyses of Tissues. <i>Analytical Chemistry</i> , 2006, 78, 6826-6832.	6.5	56
146	Correlated imaging â€” a grand challenge in chemical analysis. <i>Analyst</i> , The, 2013, 138, 1924.	3.5	56
147	NMR Detection with Multiple Solenoidal Microcoils for Continuous-Flow Capillary Electrophoresis. <i>Analytical Chemistry</i> , 2002, 74, 5550-5555.	6.5	55
148	Label-free quantitation of peptide release from neurons in a microfluidic device with mass spectrometry imaging. <i>Lab on A Chip</i> , 2012, 12, 2037.	6.0	55
149	Separation of amino acid and peptide stereoisomers by nonionic micelle-mediated capillary electrophoresis after chiral derivatization. <i>Journal of Chromatography A</i> , 1998, 800, 345-354.	3.7	54
150	Measuring Reaction Kinetics by Using Multiple Microcoil NMR Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 4669-4672.	13.8	54
151	Modeling and Simulation of Ionic Currents in Three-Dimensional Microfluidic Devices with Nanofluidic Interconnects. <i>Journal of Nanoparticle Research</i> , 2005, 7, 507-516.	1.9	54
152	Capillary electrophoresis with wavelength-resolved laser-induced fluorescence detection. <i>Analytical and Bioanalytical Chemistry</i> , 2002, 373, 332-343.	3.7	53
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651	Update to Our Reader, Reviewer, and Author Communitiesâ€™ April 2020. <i>Journal of Chemical Health and Safety</i> , 2020, 27, 133-134.	2.1	0
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654	Nominate Outstanding Measurement Scientists for the 2020 Analytical Chemistry Young Innovator and the 2021 Advances in Measurement Science Lectureship Awards!. <i>Analytical Chemistry</i> , 2020, 92, 3493-3493.	6.5	0
655	Update to Our Reader, Reviewer, and Author Communitiesâ€™ April 2020. <i>ACS Applied Bio Materials</i> , 2020, 3, 2873-2874.	4.6	0
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661	Update to Our Reader, Reviewer, and Author Communitiesâ€™ April 2020. <i>Environmental Science & Technology</i> , 2020, 54, 5307-5308.	10.0	0
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