

# Zheng Ouyang

## List of Publications by Year in Descending Order

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**Version:** 2024-04-27

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

126  
papers

9,300  
citations

45  
h-index

95  
g-index

130  
ext. papers

10,137  
ext. citations

7  
avg, IF

6.32  
L-index

#	Paper	IF	Citations
126	Recent advances in on-site mass spectrometry analysis for clinical applications.. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2022</b> , 149, 116548	14.6	2
125	Site-Specific Photochemical Reaction for Improved C=C Location Analysis of Unsaturated Lipids by Ultraviolet Photodissociation.. <i>Research</i> , <b>2022</b> , 2022, 9783602	7.8	0
124	On-site quantitation of morphine in urine by fast derivatization and miniature mass spectrometry analysis <b>2022</b> , 1, 100013		0
123	Handheld Mass Spectrometer with Intelligent Adaptability for On-Site and Point-of-Care Analysis. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 15607-15616	7.8	5
122	Mass Analysis Using Collective Interaction of Ions in an Ion Trap. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 5998-6002		2
121	On-Demand Mass Spectrometry Analysis by Miniature Mass Spectrometer. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 6003-6007	7.8	7
120	Tandem-in-time mass spectrometry analysis facilitated by real-time pressure adjustments. <i>International Journal of Mass Spectrometry</i> , <b>2021</b> , 462, 116523	1.9	2
119	Single-cell lipidomics with high structural specificity by mass spectrometry. <i>Nature Communications</i> , <b>2021</b> , 12, 2869	17.4	24
118	Direct Analysis Using Miniature Mass Spectrometers: A Fast On-Site Analytical Tool for Toxicology. <i>Chemical Research in Toxicology</i> , <b>2021</b> , 34, 681-683	4	1
117	Enabling High Structural Specificity to Lipidomics by Coupling Photochemical Derivatization with Tandem Mass Spectrometry. <i>Accounts of Chemical Research</i> , <b>2021</b> , 54, 3873-3882	24.3	5
116	Single-Cell Mass Spectrometry Analysis of Metabolites Facilitated by Cell Electro-Migration and Electroporation. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 10138-10144	7.8	16
115	Targeted Quantification of Peptides Using Miniature Mass Spectrometry. <i>Journal of Proteome Research</i> , <b>2020</b> , 19, 2043-2052	5.6	4
114	Ion Mobility Separation Using a Dual-LIT Miniature Mass Spectrometer. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 2573-2579	7.8	7
113	Visible-Light-Driven [2 + 2] Photocycloadditions between Benzophenone and C=C Bonds in Unsaturated Lipids. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 3499-3505	16.4	17
112	Statistical Algorithm Enables Rapid Computation of Space Charge Effect and Spectral Correction in a Miniature Ion Trap Mass Spectrometer. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2020</b> , 31, 429-433	3.5	4
111	Large-scale lipid analysis with C=C location and sn-position isomer resolving power. <i>Nature Communications</i> , <b>2020</b> , 11, 375	17.4	53
110	Enhanced Phospholipid Isomer Analysis by Online Photochemical Derivatization and RPLC-MS. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 6719-6726	7.8	16

109	Rapid and on-site detection of multiple fentanyl compounds by dual-ion trap miniature mass spectrometry system. <i>Talanta</i> , <b>2020</b> , 217, 121057	6.2	13
108	Direct quantitation of tenofovir diphosphate in human blood with mass spectrometry for adherence monitoring. <i>Analytical and Bioanalytical Chemistry</i> , <b>2020</b> , 412, 1243-1249	4.4	12
107	On-site testing of multiple drugs of abuse in urine by a miniature dual-LIT mass spectrometer. <i>Analytica Chimica Acta</i> , <b>2020</b> , 1101, 74-80	6.6	9
106	Accelerated air-assisted in-syringe extraction and needle spray ionization coupled with miniature mass spectrometry: A streamlined platform for rapid on-site analysis. <i>Analytica Chimica Acta</i> , <b>2020</b> , 1136, 106-114	6.6	5
105	Fast protein analysis enabled by high-temperature hydrolysis. <i>Chemical Science</i> , <b>2020</b> , 11, 10506-10516	9.4	3
104	Ion-Neutral Collision Effects on Ion Trapping and Pseudopotential Depth in Ion Trap Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2019</b> , 30, 2750-2755	3.5	5
103	Direct sampling mass spectrometry for clinical analysis. <i>Analyst, The</i> , <b>2019</b> , 144, 1034-1051	5	35
102	Rapid determination of isocitrate dehydrogenase mutation status of human gliomas by extraction nanoelectrospray using a miniature mass spectrometer. <i>Analytical and Bioanalytical Chemistry</i> , <b>2019</b> , 411, 1503-1508	4.4	8
101	High-Precision Quantitation of Biofluid Samples Using Direct Mass Spectrometry Analysis. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 6986-6990	7.8	8
100	A Polymer Coating Transfer Enrichment Method for Direct Mass Spectrometry Analysis of Lipids in Biofluid Samples. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 6125-6130	3.6	2
99	A Polymer Coating Transfer Enrichment Method for Direct Mass Spectrometry Analysis of Lipids in Biofluid Samples. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 6064-6069	16.4	20
98	Mapping Lipid C=C Location Isomers in Organ Tissues by Coupling Photochemical Derivatization and Rapid Extractive Mass Spectrometry. <i>International Journal of Mass Spectrometry</i> , <b>2019</b> , 445, 116206-116206	19.6	6
97	Coupling the Paterni-Belli (PB) Reaction With Mass Spectrometry to Study Unsaturated Fatty Acids in Mouse Model of Multiple Sclerosis. <i>Frontiers in Chemistry</i> , <b>2019</b> , 7, 807	5	5
96	Polydopamine-Modified Substrates for High-Sensitivity Laser Desorption Ionization Mass Spectrometry Imaging. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 46140-46148	9.5	12
95	Intraoperative detection of isocitrate dehydrogenase mutations in human gliomas using a miniature mass spectrometer. <i>Analytical and Bioanalytical Chemistry</i> , <b>2019</b> , 411, 7929-7933	4.4	10
94	A lipidomic workflow capable of resolving - and C[double bond, length as m-dash]C location isomers of phosphatidylcholines. <i>Chemical Science</i> , <b>2019</b> , 10, 10740-10748	9.4	25
93	Tandem Analysis by a Dual-Trap Miniature Mass Spectrometer. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 1391-1398	7.8	32
92	Online photochemical derivatization enables comprehensive mass spectrometric analysis of unsaturated phospholipid isomers. <i>Nature Communications</i> , <b>2019</b> , 10, 79	17.4	91

91	Point-of-Care Tissue Analysis Using Miniature Mass Spectrometer. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 1157-1163	7.8	39
90	Rapid In Situ Profiling of Lipid C=C Location Isomers in Tissue Using Ambient Mass Spectrometry with Photochemical Reactions. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 5612-5619	7.8	39
89	In-capillary microextraction for direct mass spectrometry analysis of biological samples. <i>Talanta</i> , <b>2018</b> , 189, 451-457	6.2	12
88	Locating Carbon-Carbon Double Bonds in Unsaturated Phospholipids by Epoxidation Reaction and Tandem Mass Spectrometry. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 10286-10292	7.8	32
87	Antireflection Surfaces for Biological Analysis Using Laser Desorption Ionization Mass Spectrometry. <i>Research</i> , <b>2018</b> , 2018, 5439729	7.8	11
86	Rapid identification of regulated organic chemical compounds in toys using ambient ionization and a miniature mass spectrometry system. <i>Talanta</i> , <b>2018</b> , 180, 182-192	6.2	18
85	Study of In-Trap Ion Clouds by Ion Trajectory Simulations. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2018</b> , 29, 223-229	3.5	3
84	Stimulated Motion Suppression (STMS): a New Approach to Break the Resolution Barrier for Ion Trap Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2018</b> , 29, 1738-1744	3.5	3
83	Using miniature MS system with automatic blood sampler for preclinical pharmacokinetics study. <i>Bioanalysis</i> , <b>2017</b> , 9, 1633-1641	2.1	12
82	Ambient Ionization and Miniature Mass Spectrometry Systems for Disease Diagnosis and Therapeutic Monitoring. <i>Theranostics</i> , <b>2017</b> , 7, 2968-2981	12.1	45
81	Ambient Ionization Mass Spectrometry for Point-of-Care Diagnostics and Other Clinical Measurements. <i>Clinical Chemistry</i> , <b>2016</b> , 62, 99-110	5.5	138
80	Miniature and Fieldable Mass Spectrometers: Recent Advances. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 2-29	7.8	271
79	Photochemical Tagging for Quantitation of Unsaturated Fatty Acids by Mass Spectrometry. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 8931-5	7.8	66
78	Ion transfer between ion source and mass spectrometer inlet: electro-hydrodynamic simulation and experimental validation. <i>Rapid Communications in Mass Spectrometry</i> , <b>2016</b> , 30 Suppl 1, 29-33	2.2	8
77	Following the Ions through a Mass Spectrometer with Atmospheric Pressure Interface: Simulation of Complete Ion Trajectories from Ion Source to Mass Analyzer. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 7033-40	7.8	17
76	Ambient ionization and miniature mass spectrometry system for chemical and biological analysis. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2016</b> , 85, 10-19	14.6	82
75	Direct Analysis of Nonvolatile Chemical Compounds on Surfaces Using a Hand-Held Mass Spectrometer with Synchronized Discharge Ionization Function. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 826-31	7.8	20
74	Power Normalization for Mass Spectrometry Data Analysis and Analytical Method Assessment. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 3156-63	7.8	6

73	Direct identification of prohibited substances in cosmetics and foodstuffs using ambient ionization on a miniature mass spectrometry system. <i>Analytica Chimica Acta</i> , <b>2016</b> , 912, 65-73	6.6	44
72	Identification and quantitation of lipid C=C location isomers: A shotgun lipidomics approach enabled by photochemical reaction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 2573-8	11.5	201
71	Rapid discrimination of bacteria using a miniature mass spectrometer. <i>Analyst, The</i> , <b>2016</b> , 141, 1633-6	5	30
70	Mitigation of sensory and motor deficits by acrolein scavenger phenelzine in a rat model of spinal cord contusive injury. <i>Journal of Neurochemistry</i> , <b>2016</b> , 138, 328-38	6	39
69	Paper-capillary spray for direct mass spectrometry analysis of biofluid samples. <i>Analytical and Bioanalytical Chemistry</i> , <b>2016</b> , 408, 1385-90	4.4	31
68	Real-time sample analysis using a sampling probe and miniature mass spectrometer. <i>Analytical Chemistry</i> , <b>2015</b> , 87, 8867-73	7.8	35
67	A pulsed pinhole atmospheric pressure interface for simplified mass spectrometry instrumentation with enhanced sensitivity. <i>Rapid Communications in Mass Spectrometry</i> , <b>2015</b> , 29, 701-6	2.2	18
66	Rapid analysis of synthetic cannabinoids using a miniature mass spectrometer with ambient ionization capability. <i>Talanta</i> , <b>2015</b> , 142, 190-6	6.2	53
65	Design of portable mass spectrometers with handheld probes: aspects of the sampling and miniature pumping systems. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2015</b> , 26, 240-7	3.5	57
64	Mini 12, miniature mass spectrometer for clinical and other applications--introduction and characterization. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 2909-16	7.8	215
63	Autonomous in situ analysis and real-time chemical detection using a backpack miniature mass spectrometer: concept, instrumentation development, and performance. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 2900-8	7.8	130
62	High efficiency tandem mass spectrometry analysis using dual linear ion traps. <i>Analyst, The</i> , <b>2014</b> , 139, 4779-84	5	22
61	Paper spray and extraction spray mass spectrometry for the direct and simultaneous quantification of eight drugs of abuse in whole blood. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 7712-8	7.8	146
60	Flowing gas in mass spectrometer: method for characterization and impact on ion processing. <i>Analyst, The</i> , <b>2014</b> , 139, 5215-22	5	20
59	Ion sponge: a 3-dimensional array of quadrupole ion traps for trapping and mass-selectively processing ions in gas phase. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 4102-9	7.8	14
58	Innenrücktitelbild: Direct Mass Spectrometry Analysis of Biofluid Samples Using Slug-Flow Microextraction Nano-Electrospray Ionization (Angew. Chem. 51/2014). <i>Angewandte Chemie</i> , <b>2014</b> , 126, 14499-14499	3.6	
57	Direct Mass Spectrometry Analysis of Biofluid Samples Using Slug-Flow Microextraction Nano-Electrospray Ionization. <i>Angewandte Chemie</i> , <b>2014</b> , 126, 14348-14351	3.6	8
56	Direct mass spectrometry analysis of biofluid samples using slug-flow microextraction nano-electrospray ionization. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 14124-7	16.4	67

55	Development of miniature mass spectrometry systems for bioanalysis outside the conventional laboratories. <i>Bioanalysis</i> , <b>2014</b> , 6, 1497-508	2.1	23
54	Neuroprotective ferulic acid (FA)-glycol chitosan (GC) nanoparticles for functional restoration of traumatically injured spinal cord. <i>Biomaterials</i> , <b>2014</b> , 35, 2355-2364	15.6	72
53	Direct Mass Spectrometry Analysis of Untreated Samples of Ultralow Amounts Using Extraction Nano-Electrospray. <i>Analytical Methods</i> , <b>2013</b> , 5,	3.2	32
52	Simulation of rarefied gas flows in atmospheric pressure interfaces for mass spectrometry systems. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2013</b> , 24, 1890-9	3.5	20
51	Direct quantitative analysis of nicotine alkaloids from biofluid samples using paper spray mass spectrometry. <i>Analytical Chemistry</i> , <b>2013</b> , 85, 11540-4	7.8	76
50	Carbon-Carbon Bond Activation in Saturated Hydrocarbons by Field-Assisted Nitrogen Fixation. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 1074-1077	3.6	4
49	High throughput paper spray mass spectrometry analysis. <i>Clinica Chimica Acta</i> , <b>2013</b> , 420, 28-33	6.2	63
48	Quantitative paper spray mass spectrometry analysis of drugs of abuse. <i>Analyst, The</i> , <b>2013</b> , 138, 4443-7	5	106
47	Enabling quantitative analysis in ambient ionization mass spectrometry: internal standard coated capillary samplers. <i>Analytical Chemistry</i> , <b>2013</b> , 85, 5632-6	7.8	35
46	Synchronized discharge ionization for analysis of volatile organic compounds using a hand-held ion trap mass spectrometer. <i>Analytical Chemistry</i> , <b>2013</b> , 85, 1767-72	7.8	27
45	Paper spray ionization devices for direct, biomedical analysis using mass spectrometry. <i>International Journal of Mass Spectrometry</i> , <b>2012</b> , 312, 201-207	1.9	156
44	Gas-flow assisted ion transfer for mass spectrometry. <i>Journal of Mass Spectrometry</i> , <b>2012</b> , 47, 201-7	2.2	44
43	Accelerated simulation study of space charge effects in quadrupole ion traps using GPU techniques. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2012</b> , 23, 1799-807	3.5	23
42	Analysis of pesticide residues by leaf spray mass spectrometry. <i>Analytical Methods</i> , <b>2012</b> , 4, 1913	3.2	47
41	Rapid analysis of whole blood by paper spray mass spectrometry for point-of-care therapeutic drug monitoring. <i>Analyst, The</i> , <b>2012</b> , 137, 2344-9	5	122
40	In Situ Explosive Detection Using a Miniature Plasma Ion Source and a Portable Mass Spectrometer. <i>Analytical Letters</i> , <b>2012</b> , 45, 1440-1446	2.2	39
39	Silica coated paper substrate for paper-spray analysis of therapeutic drugs in dried blood spots. <i>Analytical Chemistry</i> , <b>2012</b> , 84, 931-8	7.8	167
38	New ionization methods and miniature mass spectrometers for biomedicine: DESI imaging for cancer diagnostics and paper spray ionization for therapeutic drug monitoring. <i>Faraday Discussions</i> , <b>2011</b> , 149, 247-67; discussion 333-56	3.6	104

37	Direct analysis of biological tissue by paper spray mass spectrometry. <i>Analytical Chemistry</i> , <b>2011</b> , 83, 1197-201	7.8	197
36	Leaf spray: direct chemical analysis of plant material and living plants by mass spectrometry. <i>Analytical Chemistry</i> , <b>2011</b> , 83, 7608-13	7.8	194
35	Introduction to Mass Spectrometry <b>2011</b> , 1-57		
34	Assessment of paper spray ionization for quantitation of pharmaceuticals in blood spots. <i>International Journal of Mass Spectrometry</i> , <b>2011</b> , 300, 123-129	1.9	156
33	Quantitative analysis of therapeutic drugs in dried blood spot samples by paper spray mass spectrometry: an avenue to therapeutic drug monitoring. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2011</b> , 22, 1501-7	3.5	177
32	Dual buffer gases for ion manipulation in a miniature ion trap mass spectrometer with a discontinuous atmospheric pressure interface. <i>Rapid Communications in Mass Spectrometry</i> , <b>2011</b> , 25, 3274-80	2.2	10
31	Synchronized Inductive Desorption Electrospray Ionization Mass Spectrometry. <i>Angewandte Chemie</i> , <b>2011</b> , 123, 2551-2554	3.6	10
30	Sampling wand for an ion trap mass spectrometer. <i>Analytical Chemistry</i> , <b>2011</b> , 83, 1857-61	7.8	26
29	Biological tissue diagnostics using needle biopsy and spray ionization mass spectrometry. <i>Analytical Chemistry</i> , <b>2011</b> , 83, 9221-5	7.8	76
28	Nondestructive ion trap mass analysis at high pressure. <i>Analytical Chemistry</i> , <b>2011</b> , 83, 685-9	7.8	12
27	Study of Discontinuous Atmospheric Pressure Interfaces for Mass Spectrometry Instrumentation Development. <i>Analytical Chemistry</i> , <b>2010</b> , 82, 6584-6592	7.8	51
26	Development, characterization, and application of paper spray ionization. <i>Analytical Chemistry</i> , <b>2010</b> , 82, 2463-71	7.8	535
25	Miniature Monolithic Rectilinear Ion Trap Arrays by Stereolithography on Printed Circuit Board. <i>Journal of Microelectromechanical Systems</i> , <b>2010</b> , 19, 951-960	2.5	26
24	Direct analysis of melamine in complex matrices using a handheld mass spectrometer. <i>Analyst, The</i> , <b>2010</b> , 135, 705-11	5	90
23	Ion trap mass analysis at high pressure: an experimental characterization. <i>Journal of Mass Spectrometry</i> , <b>2010</b> , 45, 26-34	2.2	29
22	Paper Spray for Direct Analysis of Complex Mixtures Using Mass Spectrometry. <i>Angewandte Chemie</i> , <b>2010</b> , 122, 889-892	3.6	118
21	Paper spray for direct analysis of complex mixtures using mass spectrometry. <i>Angewandte Chemie - International Edition</i> , <b>2010</b> , 49, 877-80	16.4	532
20	Evaluation of a differential mobility spectrometer/miniature mass spectrometer system. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2010</b> , 21, 1477-81	3.5	18

19	Ion trap mass analysis at high pressure: a theoretical view. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2009</b> , 20, 2144-53	3.5	50
18	Mass spectrometric imaging of lipids using desorption electrospray ionization. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , <b>2009</b> , 877, 2883-9	3.2	119
17	Miniature mass spectrometers. <i>Annual Review of Analytical Chemistry</i> , <b>2009</b> , 2, 187-214	12.5	251
16	Low-temperature plasma probe for ambient desorption ionization. <i>Analytical Chemistry</i> , <b>2008</b> , 80, 9097-1004	7.0	580
15	Breaking the pumping speed barrier in mass spectrometry: discontinuous atmospheric pressure interface. <i>Analytical Chemistry</i> , <b>2008</b> , 80, 4026-32	7.8	195
14	Design and characterization of a multisource hand-held tandem mass spectrometer. <i>Analytical Chemistry</i> , <b>2008</b> , 80, 7198-205	7.8	162
13	Novel linear ion trap mass analyzer composed of four planar electrodes. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2006</b> , 17, 631-639	3.5	22
12	Handheld rectilinear ion trap mass spectrometer. <i>Analytical Chemistry</i> , <b>2006</b> , 78, 5994-6002	7.8	214
11	Rectilinear ion trap mass spectrometer with atmospheric pressure interface and electrospray ionization source. <i>Analytical Chemistry</i> , <b>2006</b> , 78, 718-25	7.8	46
10	Polymer-Based Ion Trap Chemical Sensor. <i>IEEE Sensors Journal</i> , <b>2006</b> , 6, 1429-1434	4	16
9	Ion trajectory simulation for electrode configurations with arbitrary geometries. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2006</b> , 17, 1216-28	3.5	33
8	Detection Technologies. Ambient mass spectrometry. <i>Science</i> , <b>2006</b> , 311, 1566-70	33.3	1151
7	Gentle protein ionization assisted by high-velocity gas flow. <i>Analytical Chemistry</i> , <b>2005</b> , 77, 6174-83	7.8	43
6	Rectilinear ion trap: concepts, calculations, and analytical performance of a new mass analyzer. <i>Analytical Chemistry</i> , <b>2004</b> , 76, 4595-605	7.8	221
5	Preparing protein microarrays by soft-landing of mass-selected ions. <i>Science</i> , <b>2003</b> , 301, 1351-4	33.3	241
4	A multiquadrupole tandem mass spectrometer for the study of ion/surface collision processes. <i>Review of Scientific Instruments</i> , <b>2002</b> , 73, 2375-2391	1.7	6
3	Characterization of a serial array of miniature cylindrical ion trap mass analyzers. <i>Rapid Communications in Mass Spectrometry</i> , <b>1999</b> , 13, 2444-9	2.2	47
2	Chemical Mass Shifts in Ion Trap Mass Spectrometry: Experiments and Simulations. <i>Analytical Chemistry</i> , <b>1999</b> , 71, 3405-3415	7.8	67



1 Characterization of a serial array of miniature cylindrical ion trap mass analyzers **1999**, 13, 2444

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