

# Peter B O'connor

## List of Publications by Year in descending order

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170  
papers

6,964  
citations

50170

46  
h-index

71532

76  
g-index

176  
all docs

176  
docs citations

176  
times ranked

5028  
citing authors

#	ARTICLE	IF	CITATIONS
1	Infrared Multiphoton Dissociation of Large Multiply Charged Ions for Biomolecule Sequencing. <i>Analytical Chemistry</i> , 1994, 66, 2809-2815.	3.2	724
2	T Cell Activation by Lipopeptide Antigens. <i>Science</i> , 2004, 303, 527-531.	6.0	255
3	Gas-phase folding and unfolding of cytochrome c cations.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1995, 92, 2451-2454.	3.3	242
4	Sequence tag identification of intact proteins by matching tandem mass spectral data against sequence data bases.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1996, 93, 8264-8267.	3.3	219
5	Electron Capture Dissociation Initiates a Free Radical Reaction Cascade. <i>Journal of the American Chemical Society</i> , 2003, 125, 8949-8958.	6.6	211
6	Deamidation: Differentiation of aspartyl from isoaspartyl products in peptides by electron capture dissociation. <i>Protein Science</i> , 2005, 14, 452-463.	3.1	154
7	Long-lived electron capture dissociation product ions experience radical migration via hydrogen abstraction. <i>Journal of the American Society for Mass Spectrometry</i> , 2006, 17, 576-585.	1.2	120
8	A high pressure matrix-assisted laser desorption/ionization Fourier transform mass spectrometry ion source for thermal stabilization of labile biomolecules. <i>Rapid Communications in Mass Spectrometry</i> , 2001, 15, 1862-1868.	0.7	116
9	Reverse transcription-associated dephosphorylation of hepadnavirus nucleocapsids. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 9020-9025.	3.3	113
10	Differentiation of aspartic and isoaspartic acids using electron transfer dissociation. <i>Journal of the American Society for Mass Spectrometry</i> , 2006, 17, 15-19.	1.2	112
11	Coupling Thin-Layer Chromatography with Vibrational Cooling Matrix-Assisted Laser Desorption/Ionization Fourier Transform Mass Spectrometry for the Analysis of Ganglioside Mixtures. <i>Analytical Chemistry</i> , 2004, 76, 6484-6491.	3.2	105
12	193 nm photodissociation of larger multiply-charged biomolecules. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1996, 157-158, 357-364.	1.9	103
13	Organoiridium Photosensitizers Induce Specific Oxidative Attack on Proteins within Cancer Cells. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 14898-14902.	7.2	101
14	Top or Middle? Up or Down? Toward a Standard Lexicon for Protein Top-Down and Allied Mass Spectrometry Approaches. <i>Journal of the American Society for Mass Spectrometry</i> , 2019, 30, 1149-1157.	1.2	92
15	Oligomer Characterization of 4-23 kDa Polymers by Electrospray Fourier Transform Mass Spectrometry. <i>Journal of the American Chemical Society</i> , 1995, 117, 12826-12831.	6.6	90
16	High pressure matrix-assisted laser desorption/ionization Fourier transform mass spectrometry for minimization of ganglioside fragmentation. <i>Journal of the American Society for Mass Spectrometry</i> , 2002, 13, 402-407.	1.2	89
17	Ganglioside analysis by thin-layer chromatography matrix-assisted laser desorption/ionization orthogonal time-of-flight mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2005, 16, 1552-1560.	1.2	80
18	Collisionally activated dissociation and electron capture dissociation provide complementary structural information for branched permethylated oligosaccharides. <i>Journal of the American Society for Mass Spectrometry</i> , 2008, 19, 138-150.	1.2	80

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19	Use of <sup>18</sup> O labels to monitor deamidation during protein and peptide sample processing. <i>Journal of the American Society for Mass Spectrometry</i> , 2008, 19, 855-864.	1.2	79
20	Detecting Deamidation Products in Proteins by Electron Capture Dissociation. <i>Analytical Chemistry</i> , 2006, 78, 1264-1271.	3.2	78
21	Data processing in Fourier transform ion cyclotron resonance mass spectrometry. <i>Mass Spectrometry Reviews</i> , 2014, 33, 333-352.	2.8	78
22	Identification of Aspartic and Isoaspartic Acid Residues in Amyloid $\beta$ Peptides, Including A $\beta$ 1-42, Using Electron Ion Reactions. <i>Analytical Chemistry</i> , 2009, 81, 9778-9786.	3.2	74
23	Glutamine Deamidation: Differentiation of Glutamic Acid and $\beta$ -Glutamic Acid in Peptides by Electron Capture Dissociation. <i>Analytical Chemistry</i> , 2010, 82, 3606-3615.	3.2	74
24	Autophaser: An Algorithm for Automated Generation of Absorption Mode Spectra for FT-ICR MS. <i>Analytical Chemistry</i> , 2013, 85, 3903-3911.	3.2	72
25	Absorption-Mode: The Next Generation of Fourier Transform Mass Spectra. <i>Analytical Chemistry</i> , 2012, 84, 2923-2929.	3.2	71
26	Internal Calibration on Adjacent Samples (InCAS) with Fourier Transform Mass Spectrometry. <i>Analytical Chemistry</i> , 2000, 72, 5881-5885.	3.2	69
27	Use of a double resonance electron capture dissociation experiment to probe fragment intermediate lifetimes. <i>Journal of the American Society for Mass Spectrometry</i> , 2006, 17, 1605-1615.	1.2	69
28	Throwing Light on Petroleum: Simulated Exposure of Crude Oil to Sunlight and Characterization Using Atmospheric Pressure Photoionization Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. <i>Analytical Chemistry</i> , 2014, 86, 527-534.	3.2	66
29	Quantitating the relative abundance of isoaspartyl residues in deamidated proteins by electron capture dissociation. <i>Journal of the American Society for Mass Spectrometry</i> , 2007, 18, 48-56.	1.2	65
30	Influence of Charge State on Product Ion Mass Spectra and the Determination of 4S/6S Sulfation Sequence of Chondroitin Sulfate Oligosaccharides. <i>Analytical Chemistry</i> , 2002, 74, 3760-3771.	3.2	62
31	Tandem Mass Spectrometry for Structural Characterization of Proline-Rich Proteins: An Application to Salivary PRP-3. <i>Analytical Chemistry</i> , 2002, 74, 4124-4132.	3.2	60
32	Algorithms for automatic interpretation of high resolution mass spectra. <i>Journal of the American Society for Mass Spectrometry</i> , 2006, 17, 459-468.	1.2	60
33	Matrix-assisted laser desorption/ionization Fourier transform mass spectrometric analysis of oxygenated triglycerides and phosphatidylcholines in egg tempera paint dosimeters used for environmental monitoring of museum display conditions. <i>Journal of Mass Spectrometry</i> , 2001, 36, 479-492.	0.7	59
34	A high pressure matrix-assisted laser desorption ion source for Fourier transform mass spectrometry designed to accommodate large targets with diverse surfaces. <i>Journal of the American Society for Mass Spectrometry</i> , 2004, 15, 128-132.	1.2	58
35	Characterization of Transthyretin Variants in Familial Transthyretin Amyloidosis by Mass Spectrometric Peptide Mapping and DNA Sequence Analysis. <i>Analytical Chemistry</i> , 2002, 74, 741-751.	3.2	57
36	Characterization of a new qQq-FTICR mass spectrometer for post-translational modification analysis and top-down tandem mass spectrometry of whole proteins. <i>Journal of the American Society for Mass Spectrometry</i> , 2005, 16, 1985-1999.	1.2	57

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37	probing the gas-phase folding kinetics of peptide ions by IR activated DR-ECD. Journal of the American Society for Mass Spectrometry, 2008, 19, 780-789.	1.2	56
38	Acyl peptide hydrolase degrades monomeric and oligomeric amyloid-beta peptide. Molecular Neurodegeneration, 2009, 4, 33.	4.4	55
39	Phase Correction of Fourier Transform Ion Cyclotron Resonance Mass Spectra Using MatLab. Journal of the American Society for Mass Spectrometry, 2011, 22, 138-147.	1.2	55
40	Is superbenzene superaromatic?. Journal of the American Chemical Society, 1991, 113, 1086-1089.	6.6	54
41	Tandem mass spectrometry of carbonic anhydrase (29 kDa). Journal of Mass Spectrometry, 1995, 30, 88-93.	0.7	54
42	Mass Spectrometry Evidence for Cisplatin As a Protein Cross-Linking Reagent. Analytical Chemistry, 2011, 83, 5369-5376.	3.2	53
43	A new hybrid electrospray Fourier transform mass spectrometer: design and performance characteristics. Rapid Communications in Mass Spectrometry, 2006, 20, 259-266.	0.7	50
44	Electron transfer dissociation with supplemental activation to differentiate aspartic and isoaspartic residues in doubly charged peptide cations. Journal of the American Society for Mass Spectrometry, 2010, 21, 1012-1015.	1.2	49
45	Differentiation of isomeric amino acid residues in proteins and peptides using mass spectrometry. Mass Spectrometry Reviews, 2012, 31, 609-625.	2.8	49
46	Biogenic metallic elements in the human brain?. Science Advances, 2021, 7, .	4.7	48
47	Correction of Time-of-Flight Shifted Polymeric Molecular Weight Distributions in Matrix-Assisted Laser Desorption/Ionization Fourier Transform Mass Spectrometry. Analytical Chemistry, 1997, 69, 2751-2755.	3.2	47
48	CD1c bypasses lysosomes to present a lipopeptide antigen with 12 amino acids. Journal of Experimental Medicine, 2009, 206, 1409-1422.	4.2	47
49	Use of Top-Down and Bottom-Up Fourier Transform Ion Cyclotron Resonance Mass Spectrometry for Mapping Calmodulin Sites Modified by Platinum Anticancer Drugs. Analytical Chemistry, 2011, 83, 9507-9515.	3.2	47
50	Metal Ion Binding to the Amyloid I <sup>2</sup> Monomer Studied by Native Top-Down FTICR Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2019, 30, 2123-2134.	1.2	47
51	Sequence-dependent attack on peptides by photoactivated platinum anticancer complexes. Chemical Science, 2018, 9, 2733-2739.	3.7	45
52	A general method for precalculation of parameters for sustained off resonance irradiation/collision-induced dissociation. Journal of the American Society for Mass Spectrometry, 2002, 13, 318-324.	1.2	42
53	Use of the filter diagonalization method in the study of space charge related frequency modulation in Fourier transform ion cyclotron resonance mass spectrometry. Journal of the American Society for Mass Spectrometry, 2006, 17, 836-843.	1.2	42
54	The effect of fixed charge modifications on electron capture dissociation. Journal of the American Society for Mass Spectrometry, 2008, 19, 1514-1526.	1.2	42

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55	Structural Characterization of Chlorophyll- <i>a</i> by High Resolution Tandem Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2013, 24, 753-760.	1.2	42
56	The effect of radical trap moieties on electron capture dissociation spectra of substance P. <i>Journal of the American Society for Mass Spectrometry</i> , 2006, 17, 1429-1436.	1.2	41
57	Attomole Peptide Analysis by High-Pressure Matrix-Assisted Laser Desorption/Ionization Fourier Transform Mass Spectrometry. <i>Analytical Chemistry</i> , 2003, 75, 6449-6454.	3.2	39
58	Charge remote fragmentation in electron capture and electron transfer dissociation. <i>Journal of the American Society for Mass Spectrometry</i> , 2010, 21, 646-656.	1.2	38
59	Protein flexibility is key to cisplatin crosslinking in calmodulin. <i>Protein Science</i> , 2012, 21, 1269-1279.	3.1	36
60	Absorption mode spectra on the dynamically harmonized Fourier transform ion cyclotron resonance cell. <i>Rapid Communications in Mass Spectrometry</i> , 2012, 26, 2021-2026.	0.7	36
61	Two-dimensional mass spectrometry: new perspectives for tandem mass spectrometry. <i>European Biophysics Journal</i> , 2019, 48, 213-229.	1.2	36
62	Artifacts in Fourier transform mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2009, 23, 523-529.	0.7	35
63	New activation mechanism for half-sandwich organometallic anticancer complexes. <i>Chemical Science</i> , 2018, 9, 3177-3185.	3.7	34
64	Iron stored in ferritin is chemically reduced in the presence of aggregating $\text{A}\beta^2(1-42)$ . <i>Scientific Reports</i> , 2020, 10, 10332.	1.6	34
65	High-resolution ion isolation with the ion cyclotron resonance capacitively coupled open cell. <i>Journal of the American Society for Mass Spectrometry</i> , 1995, 6, 533-535.	1.2	33
66	Variation of the Fourier Transform Mass Spectra Phase Function with Experimental Parameters. <i>Analytical Chemistry</i> , 2011, 83, 8477-8483.	3.2	33
67	Structural Characterization of Polyketides Using High Mass Accuracy Tandem Mass Spectrometry. <i>Analytical Chemistry</i> , 2012, 84, 8863-8870.	3.2	33
68	Detailed Map of Oxidative Post-Translational Modifications of Human P21Ras Using Fourier Transform Mass Spectrometry. <i>Analytical Chemistry</i> , 2006, 78, 5134-5142.	3.2	32
69	Mass Spectrometric Strategies to Improve the Identification of Pt(II)-Modification Sites on Peptides and Proteins. <i>Journal of the American Society for Mass Spectrometry</i> , 2014, 25, 1217-1227.	1.2	32
70	2D FT-ICR MS of Calmodulin: A Top-Down and Bottom-Up Approach. <i>Journal of the American Society for Mass Spectrometry</i> , 2016, 27, 1531-1538.	1.2	32
71	A high voltage RF oscillator for driving multipole ion guides. <i>Journal of the American Society for Mass Spectrometry</i> , 2002, 13, 1370-1375.	1.2	31
72	Chemical-modification rescue assessed by mass spectrometry demonstrates that $\hat{\text{I}}^3$ -thia-lysine yields the same activity as lysine in aldolase. <i>Protein Science</i> , 2009, 11, 1591-1599.	3.1	30

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73	The spontaneous loss of coherence catastrophe in fourier transform ion cyclotron resonance mass spectrometry. Journal of the American Society for Mass Spectrometry, 2009, 20, 247-256.	1.2	29
74	Deamidation of Collagen. Analytical Chemistry, 2012, 84, 3017-3025.	3.2	29
75	Isotopic Assignment in Large-Molecule Mass Spectra by Fragmentation of a Selected Isotopic Peak. Analytical Chemistry, 1996, 68, 542-545.	3.2	28
76	Differentiating Fragmentation Pathways of Cholesterol by Two-Dimensional Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2015, 26, 2105-2114.	1.2	28
77	Absorption-Mode Fourier Transform Mass Spectrometry: The Effects of Apodization and Phasing on Modified Protein Spectra. Journal of the American Society for Mass Spectrometry, 2013, 24, 828-834.	1.2	27
78	Distinguishing N- and C-terminus ions for mass spectrometry sequencing of proteins without prior degradation. Rapid Communications in Mass Spectrometry, 1995, 9, 871-876.	0.7	25
79	Differentiating N-Terminal Aspartic and Isoaspartic Acid Residues in Peptides. Analytical Chemistry, 2011, 83, 6675-6682.	3.2	25
80	An External Matrix-Assisted Laser Desorption Ionization Source for Flexible FT-ICR Mass Spectrometry Imaging with Internal Calibration on Adjacent Samples. Journal of the American Society for Mass Spectrometry, 2011, 22, 130-137.	1.2	25
81	Mapping the protein-binding sites for novel iridium(III) anticancer complexes using electron capture dissociation. Rapid Communications in Mass Spectrometry, 2013, 27, 2028-2032.	0.7	25
82	Application of Phase Correction to Improve the Interpretation of Crude Oil Spectra Obtained Using 7ÅT Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2014, 25, 154-157.	1.2	25
83	Application of Multishot Acquisition in Fourier Transform Mass Spectrometry. Analytical Chemistry, 2000, 72, 5125-5130.	3.2	24
84	Improved optimization of the Fourier transform ion cyclotron resonance mass spectrometry phase correction function using a genetic algorithm. Rapid Communications in Mass Spectrometry, 2013, 27, 1977-1982.	0.7	24
85	Two-Dimensional Mass Spectrometry for Proteomics, a Comparative Study with Cytochrome c. Analytical Chemistry, 2016, 88, 4409-4417.	3.2	24
86	Polymer Analysis in the Second Dimension: Preliminary Studies for the Characterization of Polymers with 2D MS. Analytical Chemistry, 2017, 89, 9892-9899.	3.2	23
87	Top-Down Study of <sup>125</sup> I-Microglobulin Deamidation. Analytical Chemistry, 2012, 84, 6150-6157.	3.2	22
88	Insights into the Binding Sites of Organometallic Ruthenium Anticancer Compounds on Peptides Using Ultra-High Resolution Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2014, 25, 662-672.	1.2	22
89	Analysis of phase dependent frequency shifts in simulated FTMS transients using the filter diagonalization method. International Journal of Mass Spectrometry, 2012, 325-327, 19-24.	0.7	21
90	Does deamidation cause protein unfolding? A top-down tandem mass spectrometry study. Protein Science, 2015, 24, 850-860.	3.1	21

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91	Design and implementation of a high power rf oscillator on a printed circuit board for multipole ion guides. <i>Review of Scientific Instruments</i> , 2006, 77, 114101.	0.6	20
92	Binding of an organoosmium anticancer complex to guanine and cytosine on DNA revealed by electron-based dissociations in high resolution TopDown FT-ICR mass spectrometry. <i>Dalton Transactions</i> , 2015, 44, 3624-3632.	1.6	20
93	Comprehensive chemical comparison of fuel composition and aerosol particles emitted from a ship diesel engine by gas chromatography atmospheric pressure ionisation ultra-high resolution mass spectrometry with improved data processing routines. <i>European Journal of Mass Spectrometry</i> , 2017, 23, 28-39.	0.5	20
94	Absorption Mode FTICR Mass Spectrometry Imaging. <i>Analytical Chemistry</i> , 2013, 85, 11180-11184.	3.2	19
95	Structural Characterization of Actinomycin D Using Multiple Ion Isolation and Electron Induced Dissociation. <i>Journal of the American Society for Mass Spectrometry</i> , 2014, 25, 186-195.	1.2	19
96	Bottom-Up Two-Dimensional Electron-Capture Dissociation Mass Spectrometry of Calmodulin. <i>Journal of the American Society for Mass Spectrometry</i> , 2018, 29, 207-210.	1.2	19
97	Emerging Approaches to Investigate the Influence of Transition Metals in the Proteinopathies. <i>Cells</i> , 2019, 8, 1231.	1.8	19
98	Use of Statistical Methods for Estimation of Total Number of Charges in a Mass Spectrometry Experiment. <i>Analytical Chemistry</i> , 2004, 76, 2756-2762.	3.2	18
99	Removal of polyethylene glycols from protein samples using titanium dioxide. <i>Analytical Biochemistry</i> , 2007, 365, 283-285.	1.1	18
100	Can Two-Dimensional IR-ECD Mass Spectrometry Improve Peptide de Novo Sequencing?. <i>Analytical Chemistry</i> , 2018, 90, 3496-3504.	3.2	18
101	Structural Heterogeneity of Doubly-Charged Peptide b-Ions. <i>Journal of the American Society for Mass Spectrometry</i> , 2011, 22, 245-254.	1.2	17
102	A low-noise, wideband preamplifier for a fourier-transform ion cyclotron resonance mass spectrometer. <i>Journal of the American Society for Mass Spectrometry</i> , 2007, 18, 2233-2241.	1.2	16
103	Unusual Fragmentation of Î <sup>2</sup> -Linked Peptides by ExD Tandem Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2011, 22, 480-491.	1.2	16
104	Appropriate Degree of Trust: Deriving Confidence Metrics for Automatic Peak Assignment in High-Resolution Mass Spectrometry. <i>Analytical Chemistry</i> , 2012, 84, 7431-7435.	3.2	16
105	Use of High Resolution Mass Spectrometry for Analysis of Polymeric Excipients in Drug Delivery Formulations. <i>Analytical Chemistry</i> , 2012, 84, 8579-8586.	3.2	16
106	Amyloid Hydrogen Bonding Polymorphism Evaluated by <sup>15</sup> N{ <sup>17</sup> O}REAPDOR Solid-State NMR and Ultra-High Resolution Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. <i>Biochemistry</i> , 2016, 55, 2065-2068.	1.2	16
107	Two-dimensional mass spectrometry in a linear ion trap, an <i>in silico</i> model. <i>Rapid Communications in Mass Spectrometry</i> , 2017, 31, 674-684.	0.7	16
108	$\alpha$ -tocopheryl Polyethylene Glycol 1000 Succinate: A View from FTICR MS and Tandem MS. <i>Analytical Chemistry</i> , 2014, 86, 1567-1574.	3.2	15

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109	Automatic assignment of metal-containing peptides in proteomic LC-MS and MS/MS data sets. <i>Analyst</i> , 2017, 142, 2029-2037.	1.7	15
110	Organoiridium Photosensitizers Induce Specific Oxidative Attack on Proteins within Cancer Cells. <i>Angewandte Chemie</i> , 2017, 129, 15094-15098.	1.6	15
111	Complete large-molecule high-resolution mass spectra from 50-femtomole microvolume injection. <i>Journal of the American Society for Mass Spectrometry</i> , 1995, 6, 220-221.	1.2	14
112	The Competitive Influence of Li <sup>+</sup> , Na <sup>+</sup> , K <sup>+</sup> , Ag <sup>+</sup> , and H <sup>+</sup> on the Fragmentation of a PEGylated Polymeric Excipient. <i>Journal of the American Society for Mass Spectrometry</i> , 2015, 26, 166-173.	1.2	14
113	Multiple Protective Roles of Nanoliposome-Incorporated Baicalein against Alpha-Synuclein Aggregates. <i>Advanced Functional Materials</i> , 2021, 31, 2007765.	7.8	14
114	Sequence-specific predictive chromatography to assist mass spectrometric analysis of asparagine deamidation and aspartate isomerization in peptides. <i>Electrophoresis</i> , 2011, 32, 1962-1969.	1.3	13
115	Label-Free Nanoimaging of Neuromelanin in the Brain by Soft X-ray Spectromicroscopy. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 11984-11991.	7.2	13
116	Molecular characterization of myelin protein zero in <i>Xenopus laevis</i> peripheral nerve: Equilibrium between non-covalently associated dimer and monomer. <i>International Journal of Mass Spectrometry</i> , 2007, 268, 304-315.	0.7	12
117	A low noise single-transistor transimpedance preamplifier for Fourier-transform mass spectrometry using a T feedback network. <i>Review of Scientific Instruments</i> , 2012, 83, 094102.	0.6	12
118	Strained alkynes derived from 2,2'-dihydroxy-1,1'-biaryls; synthesis and copper-free cycloaddition with azides. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 4517-4521.	1.5	12
119	Advantages of Two-Dimensional Electron-Induced Dissociation and Infrared Multiphoton Dissociation Mass Spectrometry for the Analysis of Agrochemicals. <i>Analytical Chemistry</i> , 2020, 92, 11687-11695.	3.2	12
120	Determination of the Aggregate Binding Site of Amyloid Protofibrils Using Electron Capture Dissociation Tandem Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2020, 31, 267-276.	1.2	12
121	Broadband Quadrupolar Axialization of Large Multiply Charged Ions to Enhance Measurement and Minimize Conformational Restrictions. , 1996, 31, 555-559.		11
122	A minimum thickness gate valve with integrated ion optics for mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2005, 16, 441-445.	1.2	11
123	Quantitative Determination of Isotope Ratios from Experimental Isotopic Distributions. <i>Analytical Chemistry</i> , 2007, 79, 1198-1204.	3.2	11
124	Coupling Electron Capture Dissociation and the Modified Kendrick Mass Defect for Sequencing of a Poly(2-ethyl-2-oxazoline) Polymer. <i>Analytical Chemistry</i> , 2018, 90, 11710-11715.	3.2	11
125	Top-Down Deep Sequencing of Ubiquitin Using Two-Dimensional Mass Spectrometry. <i>Analytical Chemistry</i> , 2018, 90, 7302-7309.	3.2	11
126	Application of Tandem Two-Dimensional Mass Spectrometry for Top-Down Deep Sequencing of Calmodulin. <i>Journal of the American Society for Mass Spectrometry</i> , 2018, 29, 1700-1705.	1.2	11

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127	Discovery of novel, potent, isosteviol-based antithrombotic agents. <i>European Journal of Medicinal Chemistry</i> , 2019, 183, 111722.	2.6	11
128	Comparison of Fragmentation Techniques for the Structural Characterization of Singly Charged Agrochemicals. <i>Analytical Chemistry</i> , 2020, 92, 3143-3151.	3.2	11
129	Facile protein conjugation of platinum for light-activated cytotoxic payload release. <i>Chemical Communications</i> , 2021, 57, 7645-7648.	2.2	11
130	Considerations for design of a Fourier transform mass spectrometer in the 4.2K cold bore of a superconducting magnet. <i>Rapid Communications in Mass Spectrometry</i> , 2002, 16, 1160-1167.	0.7	10
131	Determination of Types and Binding Sites of Advanced Glycation End Products for Substance P. <i>Analytical Chemistry</i> , 2012, 84, 10568-10575.	3.2	10
132	Facile Determination of Phosphorylation Sites in Peptides Using Two-Dimensional Mass Spectrometry. <i>Analytical Chemistry</i> , 2020, 92, 6817-6821.	3.2	10
133	High pressure MALDI-FTMS: implications for proteomics. <i>International Journal of Mass Spectrometry</i> , 2004, 234, 203-212.	0.7	9
134	A gain and bandwidth enhanced transimpedance preamplifier for Fourier-transform ion cyclotron resonance mass spectrometry. <i>Review of Scientific Instruments</i> , 2011, 82, 124101.	0.6	9
135	Electron Capture Dissociation of Disulfide, Sulfur-Selenium, and Diselenide Bound Peptides. <i>Journal of the American Society for Mass Spectrometry</i> , 2012, 23, 2001-2010.	1.2	9
136	Study of an Unusual Advanced Glycation End-Product (AGE) Derived from Glyoxal Using Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2014, 25, 673-683.	1.2	9
137	Unexpected Crosslinking and Diglycation as Advanced Glycation End-Products from Glyoxal. <i>Journal of the American Society for Mass Spectrometry</i> , 2014, 25, 2125-2133.	1.2	9
138	Does deamidation of islet amyloid polypeptide accelerate amyloid fibril formation?. <i>Chemical Communications</i> , 2018, 54, 13853-13856.	2.2	9
139	Phase relationships in two-dimensional mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2019, 30, 2594-2607.	1.2	9
140	Structural analysis of peptides modified with organo-iridium complexes, opportunities from multi-mode fragmentation. <i>Analyst</i> , 2019, 144, 1575-1581.	1.7	9
141	First signal on the cryogenic fourier-transform ion cyclotron resonance mass spectrometer. <i>Journal of the American Society for Mass Spectrometry</i> , 2007, 18, 2090-2093.	1.2	8
142	A Low-Noise Broadband Cryogenic Preamplifier Operated in a High-Field Superconducting Magnet. <i>IEEE Transactions on Applied Superconductivity</i> , 2008, 18, 1781-1789.	1.1	8
143	Autocatalytic Nitration of Prostaglandin Endoperoxide Synthase-2 by Nitrite Inhibits Prostanoid Formation in Rat Alveolar Macrophages. <i>Antioxidants and Redox Signaling</i> , 2012, 17, 1393-1406.	2.5	8
144	Extensive fragmentation of pheophytin by infrared multiphoton dissociation tandem mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2015, 29, 2411-2418.	0.7	8

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145	MALDI Mass Spectrometry Instrumentation. , 0, , 29-82.		7
146	Solution Condition-Dependent Formation of Gas-Phase Protomers of Alpha-Synuclein in Electrospray Ionization. Journal of the American Society for Mass Spectrometry, 2021, 32, 364-372.	1.2	7
147	Two-Dimensional Mass Spectrometry Analysis of IgG1 Antibodies. Journal of the American Society for Mass Spectrometry, 2021, 32, 1716-1724.	1.2	7
148	Combining Ultraviolet Photodissociation and Two-Dimensional Mass Spectrometry: A Contemporary Approach for Characterizing Singly Charged Agrochemicals. Analytical Chemistry, 2021, 93, 9462-9470.	3.2	7
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