Peter B O'connor

List of Publications by Year
in descending order

170 papers	6,964 citations	50276 46 h-index	71685 76 g-index
176 all docs	176 docs citations	176 times ranked	5028 citing authors

#	Article	IF	Citations
1	Differentiation of Dihydroxylated Vitamin D₃ Isomers Using Tandem Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2022, , .	2.8	0
2	Revealing the Reactivity of Individual Chemical Entities in Complex Mixtures: the Chemistry Behind Bio-Oil Upgrading. Analytical Chemistry, 2022, 94, 7536-7544.	6.5	5
3	Multimodal Tandem Mass Spectrometry Techniques for the Analysis of Phosphopeptides. Journal of the American Society for Mass Spectrometry, 2022, 33, 1126-1133.	2.8	3
4	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.	2.8	7
5	Multiple Protective Roles of Nanoliposomeâ€Incorporated Baicalein against Alphaâ€Synuclein Aggregates. Advanced Functional Materials, 2021, 31, 2007765.	14.9	14
6	Cu(<scp>iii</scp>)â€“bis-thiolato complex forms an unusual mono-thiolato Cu(<scp>iii</scp>)â€“peroxido adduct. Chemical Communications, 2021, 57, 69-72.	4.1	5
7	Facile protein conjugation of platinum for light-activated cytotoxic payload release. Chemical Communications, 2021, 57, 7645-7648.	4.1	11
8	Biogenic metallic elements in the human brain?. Science Advances, 2021, 7, .	10.3	48
9	Two-Dimensional Mass Spectrometry Analysis of IgG1 Antibodies. Journal of the American Society for Mass Spectrometry, 2021, 32, 1716-1724.	2.8	7
10	Combining Ultraviolet Photodissociation and Two-Dimensional Mass Spectrometry: A Contemporary Approach for Characterizing Singly Charged Agrochemicals. Analytical Chemistry, 2021, 93, 9462-9470.	6.5	7
11	Characterization Across a Dispersity: Polymer Mass Spectrometry in the Second Dimension. Journal of the American Society for Mass Spectrometry, 2021, 32, 2153-2161.	2.8	5
12	Electron Capture Dissociation of Trithiocarbonate-Terminated Acrylamide Homo- and Copolymers: A Terminus-Directed Mechanism?. Analytical Chemistry, 2020, 92, 12852-12859.	6.5	6
13	Does deamidation affect inhibitory mechanisms towards amyloid protein aggregation?. Chemical Communications, 2020, 56, 9787-9790.	4.1	1
14	Advantages of Two-Dimensional Electron-Induced Dissociation and Infrared Multiphoton Dissociation Mass Spectrometry for the Analysis of Agrochemicals. Analytical Chemistry, 2020, 92, 11687-11695.	6.5	12
15	Iron stored in ferritin is chemically reduced in the presence of aggregating Aî²(1-42). Scientific Reports, 2020, 10, 10332.	3.3	34
16	Determination of the Aggregate Binding Site of Amyloid Protofibrils Using Electron Capture Dissociation Tandem Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2020, 31, 267-276.	2.8	12
17	Metallocomplexâ€“Peptide Interactions Studied by Ultrahigh Resolution Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2020, 31, 594-601.	2.8	4
18	Comparison of Fragmentation Techniques for the Structural Characterization of Singly Charged Agrochemicals. Analytical Chemistry, 2020, 92, 3143-3151.	6.5	11

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19	Facile Determination of Phosphorylation Sites in Peptides Using Two-Dimensional Mass Spectrometry. Analytical Chemistry, 2020, 92, 6817-6821.	6.5	10
20	Labelâ€Free Nanoimaging of Neuromelanin in the Brain by Soft Xâ€ray Spectromicroscopy. Angewandte Chemie - International Edition, 2020, 59, 11984-11991.	13.8	13
21	Labelâ€Free Nanoimaging of Neuromelanin in the Brain by Soft Xâ€ray Spectromicroscopy. Angewandte Chemie, 2020, 132, 12082-12089.	2.0	0
22	MIND: A Double-Linear Model To Accurately Determine Monoisotopic Precursor Mass in High-Resolution Top-Down Proteomics. Analytical Chemistry, 2019, 91, 10310-10319.	6.5	3
23	Metal Ion Binding to the Amyloid Î² Monomer Studied by Native Top-Down FTICR Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2019, 30, 2123-2134.	2.8	47
24	Phase relationships in two-dimensional mass spectrometry. Journal of the American Society for Mass Spectrometry, 2019, 30, 2594-2607.	2.8	9
25	A Lightâ€Activated Acyl Carrier Protein â€œTrapâ€•for Intermediate Capture in Typeâ€…II Iterative Polyketide Biocatalysis. Chemistry - A European Journal, 2019, 25, 16515-16518.	3.3	2
26	Emerging Approaches to Investigate the Influence of Transition Metals in the Proteinopathies. Cells, 2019, 8, 1231.	4.1	19
27	Fundamentals of two dimensional Fourier transform mass spectrometry. , 2019, , 187-232.		0
28	Discovery of novel, potent, isosteviol-based antithrombotic agents. European Journal of Medicinal Chemistry, 2019, 183, 111722.	5.5	11
29	Structural analysis of peptides modified with organo-iridium complexes, opportunities from multi-mode fragmentation. Analyst, The, 2019, 144, 1575-1581.	3.5	9
30	Top or Middle? Up or Down? Toward a Standard Lexicon for Protein Top-Down and Allied Mass Spectrometry Approaches. Journal of the American Society for Mass Spectrometry, 2019, 30, 1149-1157.	2.8	92
31	Two-dimensional mass spectrometry: new perspectives for tandem mass spectrometry. European Biophysics Journal, 2019, 48, 213-229.	2.2	36
32	Generation of maghemite nanocrystals from ironâ€“sulfur centres. Dalton Transactions, 2019, 48, 9564-9569.	3.3	1
33	Can Two-Dimensional IR-ECD Mass Spectrometry Improve Peptide de Novo Sequencing?. Analytical Chemistry, 2018, 90, 3496-3504.	6.5	18
34	New activation mechanism for half-sandwich organometallic anticancer complexes. Chemical Science, 2018, 9, 3177-3185.	7.4	34
35	Sequence-dependent attack on peptides by photoactivated platinum anticancer complexes. Chemical Science, 2018, 9, 2733-2739.	7.4	45
36	Bottom-Up Two-Dimensional Electron-Capture Dissociation Mass Spectrometry of Calmodulin. Journal of the American Society for Mass Spectrometry, 2018, 29, 207-210.	2.8	19

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37	Does deamidation of islet amyloid polypeptide accelerate amyloid fibril formation?. Chemical Communications, 2018, 54, 13853-13856.	4.1	9
38	Coupling Electron Capture Dissociation and the Modified Kendrick Mass Defect for Sequencing of a Poly(2-ethyl-2-oxazoline) Polymer. Analytical Chemistry, 2018, 90, 11710-11715.	6.5	11
39	Top-Down Deep Sequencing of Ubiquitin Using Two-Dimensional Mass Spectrometry. Analytical Chemistry, 2018, 90, 7302-7309.	6.5	11
40	Application of Tandem Two-Dimensional Mass Spectrometry for Top-Down Deep Sequencing of Calmodulin. Journal of the American Society for Mass Spectrometry, 2018, 29, 1700-1705.	2.8	11
41	Twoâ€dimensional mass spectrometry in a linear ion trap, an in silico model. Rapid Communications in Mass Spectrometry, 2017, 31, 674-684.	1.5	16
42	Automatic assignment of metal-containing peptides in proteomic LC-MS and MS/MS data sets. Analyst, The, 2017, 142, 2029-2037.	3.5	15
43	Strained alkynes derived from 2,2â€²-dihydroxy-1,1â€²-biaryls; synthesis and copper-free cycloaddition with azides. Organic and Biomolecular Chemistry, 2017, 15, 4517-4521.	2.8	12
44	Comprehensive chemical comparison of fuel composition and aerosol particles emitted from a ship diesel engine by gas chromatography atmospheric pressure chemical ionisation ultra-high resolution mass spectrometry with improved data processing routines. European Journal of Mass Spectrometry, 2017, 23, 28-39.	1.0	20
45	Organoiridium Photosensitizers Induce Specific Oxidative Attack on Proteins within Cancer Cells. Angewandte Chemie - International Edition, 2017, 56, 14898-14902.	13.8	101
46	Organoiridium Photosensitizers Induce Specific Oxidative Attack on Proteins within Cancer Cells. Angewandte Chemie, 2017, 129, 15094-15098.	2.0	15
47	Polymer Analysis in the Second Dimension: Preliminary Studies for the Characterization of Polymers with 2D MS. Analytical Chemistry, 2017, 89, 9892-9899.	6.5	23
48	Innentitelbild: Organoiridium Photosensitizers Induce Specific Oxidative Attack on Proteins within Cancer Cells (Angew. Chem. 47/2017). Angewandte Chemie, 2017, 129, 14968-14968.	2.0	0
49	Amyloid Hydrogen Bonding Polymorphism Evaluated by 15N{17O}REAPDOR Solid-State NMR and Ultra-High Resolution Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. Biochemistry, 2016, 55, 2065-2068.	2.5	16
50	2D FT-ICR MS of Calmodulin: A Top-Down and Bottom-Up Approach. Journal of the American Society for Mass Spectrometry, 2016, 27, 1531-1538.	2.8	32
51	Two-Dimensional Mass Spectrometry for Proteomics, a Comparative Study with Cytochrome c. Analytical Chemistry, 2016, 88, 4409-4417.	6.5	24
52	Extensive fragmentation of pheophytinâ€a by infrared multiphoton dissociation tandem mass spectrometry. Rapid Communications in Mass Spectrometry, 2015, 29, 2411-2418.	1.5	8
53	The Competitive Influence of Li⁺, Na⁺, K⁺, Ag⁺, and H⁺ on the Fragmentation of a PEGylated Polymeric Excipient. Journal of the American Society for Mass Spectrometry, 2015, 26, 166-173.	2.8	14
54	Binding of an organoâ€“osmium(<scp>ii</scp>) anticancer complex to guanine and cytosine on DNA revealed by electron-based dissociations in high resolution Topâ€“Down FT-ICR mass spectrometry. Dalton Transactions, 2015, 44, 3624-3632.	3.3	20

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55	Does deamidation cause protein unfolding? A topâ€down tandem mass spectrometry study. Protein Science, 2015, 24, 850-860.	7.6	21
56	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.	2.8	28
57	Application of Phase Correction to Improve the Interpretation of Crude Oil Spectra Obtained Using 7ÂT Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2014, 25, 154-157.	2.8	25
58	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.	2.8	22
59	Data processing in Fourier transform ion cyclotron resonance mass spectrometry. Mass Spectrometry Reviews, 2014, 33, 333-352.	5.4	78
60	Throwing Light on Petroleum: Simulated Exposure of Crude Oil to Sunlight and Characterization Using Atmospheric Pressure Photoionization Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. Analytical Chemistry, 2014, 86, 527-534.	6.5	66
61	Study of an Unusual Advanced Glycation End-Product (AGE) Derived from Glyoxal Using Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2014, 25, 673-683.	2.8	9
62	Unexpected Crosslinking and Diglycation as Advanced Glycation End-Products from Glyoxal. Journal of the American Society for Mass Spectrometry, 2014, 25, 2125-2133.	2.8	9
63	Tandem mass spectrometry for the study of glyoxalâ€derived advanced glycation endâ€products (AGEs) in peptides. Rapid Communications in Mass Spectrometry, 2014, 28, 25-32.	1.5	2
64	<scp>d</scp>-Î±-tocopheryl Polyethylene Glycol 1000 Succinate: A View from FTICR MS and Tandem MS. Analytical Chemistry, 2014, 86, 1567-1574.	6.5	15
65	Structural Characterization of Actinomycin D Using Multiple Ion Isolation and Electron Induced Dissociation. Journal of the American Society for Mass Spectrometry, 2014, 25, 186-195.	2.8	19
66	Mass Spectrometric Strategies to Improve the Identification of Pt(II)-Modification Sites on Peptides and Proteins. Journal of the American Society for Mass Spectrometry, 2014, 25, 1217-1227.	2.8	32
67	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.	2.8	27
68	Structural Characterization of Chlorophyll-a by High Resolution Tandem Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2013, 24, 753-760.	2.8	42
69	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.	1.5	24
70	Absorption Mode FTICR Mass Spectrometry Imaging. Analytical Chemistry, 2013, 85, 11180-11184.	6.5	19
71	Autophaser: An Algorithm for Automated Generation of Absorption Mode Spectra for FT-ICR MS. Analytical Chemistry, 2013, 85, 3903-3911.	6.5	72
72	Mapping the proteinâ€binding sites for novel iridium(III) anticancer complexes using electron capture dissociation. Rapid Communications in Mass Spectrometry, 2013, 27, 2028-2032.	1.5	25

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73	A low noise single-transistor transimpedance preamplifier for Fourier-transform mass spectrometry using a T feedback network. Review of Scientific Instruments, 2012, 83, 094102.	1.3	12
74	Autocatalytic Nitration of Prostaglandin Endoperoxide Synthase-2 by Nitrite Inhibits Prostanoid Formation in Rat Alveolar Macrophages. Antioxidants and Redox Signaling, 2012, 17, 1393-1406.	5.4	8
75	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.	1.5	21
76	Electron Capture Dissociation of Disulfide, Sulfurâ€“Selenium, and Diselenide Bound Peptides. Journal of the American Society for Mass Spectrometry, 2012, 23, 2001-2010.	2.8	9
77	Deamidation of Collagen. Analytical Chemistry, 2012, 84, 3017-3025.	6.5	29
78	Structural Characterization of Polyketides Using High Mass Accuracy Tandem Mass Spectrometry. Analytical Chemistry, 2012, 84, 8863-8870.	6.5	33
79	Use of an Artificial Immune System Derived Method for the Charge State Assignment of Small-Molecule Mass Spectra. Analytical Chemistry, 2012, 84, 7436-7439.	6.5	4
80	Appropriate Degree of Trust: Deriving Confidence Metrics for Automatic Peak Assignment in High-Resolution Mass Spectrometry. Analytical Chemistry, 2012, 84, 7431-7435.	6.5	16
81	Determination of Types and Binding Sites of Advanced Glycation End Products for Substance P. Analytical Chemistry, 2012, 84, 10568-10575.	6.5	10
82	Use of High Resolution Mass Spectrometry for Analysis of Polymeric Excipients in Drug Delivery Formulations. Analytical Chemistry, 2012, 84, 8579-8586.	6.5	16
83	Top-Down Study of Î²2-Microglobulin Deamidation. Analytical Chemistry, 2012, 84, 6150-6157.	6.5	22
84	Absorption-Mode: The Next Generation of Fourier Transform Mass Spectra. Analytical Chemistry, 2012, 84, 2923-2929.	6.5	71
85	Use of optical receiver circuit design techniques in a transimpedance preamplifier for high performance mass spectrometry. , 2012, , .		1
86	Protein flexibility is key to cisplatin crosslinking in calmodulin. Protein Science, 2012, 21, 1269-1279.	7.6	36
87	Absorptionâ€mode spectra on the dynamically harmonized Fourier transform ion cyclotron resonance cell. Rapid Communications in Mass Spectrometry, 2012, 26, 2021-2026.	1.5	36
88	Differentiation of isomeric amino acid residues in proteins and peptides using mass spectrometry. Mass Spectrometry Reviews, 2012, 31, 609-625.	5.4	49
89	Differentiating N-Terminal Aspartic and Isoaspartic Acid Residues in Peptides. Analytical Chemistry, 2011, 83, 6675-6682.	6.5	25
90	Variation of the Fourier Transform Mass Spectra Phase Function with Experimental Parameters. Analytical Chemistry, 2011, 83, 8477-8483.	6.5	33

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91	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.	6.5	47
92	Mass Spectrometry Evidence for Cisplatin As a Protein Cross-Linking Reagent. Analytical Chemistry, 2011, 83, 5369-5376.	6.5	53
93	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.	2.8	25
94	Phase Correction of Fourier Transform Ion Cyclotron Resonance Mass Spectra Using MatLab. Journal of the American Society for Mass Spectrometry, 2011, 22, 138-147.	2.8	55
95	Structural Heterogeneity of Doubly-Charged Peptide b-Ions. Journal of the American Society for Mass Spectrometry, 2011, 22, 245-254.	2.8	17
96	Unusual Fragmentation of Î²-Linked Peptides by ExD Tandem Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2011, 22, 480-491.	2.8	16
97	Sequenceâ€specific predictive chromatography to assist mass spectrometric analysis of asparagine deamidation and aspartate isomerization in peptides. Electrophoresis, 2011, 32, 1962-1969.	2.4	13
98	A gain and bandwidth enhanced transimpedance preamplifier for Fourier-transform ion cyclotron resonance mass spectrometry. Review of Scientific Instruments, 2011, 82, 124101.	1.3	9
99	Vacuum compatible sample positioning device for matrix assisted laser desorption/ionization Fourier transform ion cyclotron resonance mass spectrometry imaging. Review of Scientific Instruments, 2011, 82, 054102.	1.3	6
100	Glutamine Deamidation: Differentiation of Glutamic Acid and Î³-Glutamic Acid in Peptides by Electron Capture Dissociation. Analytical Chemistry, 2010, 82, 3606-3615.	6.5	74
101	Charge remote fragmentation in electron capture and electron transfer dissociation. Journal of the American Society for Mass Spectrometry, 2010, 21, 646-656.	2.8	38
102	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.	2.8	49
103	CD1c bypasses lysosomes to present a lipopeptide antigen with 12 amino acids. Journal of Experimental Medicine, 2009, 206, 1409-1422.	8.5	47
104	CD1c bypasses lysosomes to present a lipopeptide antigen with 12 amino acids. Journal of Experimental Medicine, 2009, 206, 1831-1831.	8.5	0
105	Artifacts in Fourier transform mass spectrometry. Rapid Communications in Mass Spectrometry, 2009, 23, 523-529.	1.5	35
106	Acyl peptide hydrolase degrades monomeric and oligomeric amyloid-beta peptide. Molecular Neurodegeneration, 2009, 4, 33.	10.8	55
107	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.	2.8	29
108	Identification of Aspartic and Isoaspartic Acid Residues in Amyloid Î² Peptides, Including AÎ²1â^'42, Using Electronâ^'Ion Reactions. Analytical Chemistry, 2009, 81, 9778-9786.	6.5	74

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109	Chemical-modification rescue assessed by mass spectrometry demonstrates that Î³-thia-lysine yields the same activity as lysine in aldolase. Protein Science, 2009, 11, 1591-1599.	7.6	30
110	Collisionally activated dissociation and electron capture dissociation provide complementary structural information for branched permethylated oligosaccharides. Journal of the American Society for Mass Spectrometry, 2008, 19, 138-150.	2.8	80
111	The effect of fixed charge modifications on electron capture dissociation. Journal of the American Society for Mass Spectrometry, 2008, 19, 1514-1526.	2.8	42
112	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.	2.8	56
113	Use of ¹⁸O labels to monitor deamidation during protein and peptide sample processing. Journal of the American Society for Mass Spectrometry, 2008, 19, 855-864.	2.8	79
114	A Low-Noise Broadband Cryogenic Preamplifier Operated in a High-Field Superconducting Magnet. IEEE Transactions on Applied Superconductivity, 2008, 18, 1781-1789.	1.7	8
115	Chapter 16 Analysis of Deamidation in Proteins. Comprehensive Analytical Chemistry, 2008, , 375-410.	1.3	5
116	Quantitative Determination of Isotope Ratios from Experimental Isotopic Distributions. Analytical Chemistry, 2007, 79, 1198-1204.	6.5	11
117	Removal of polyethylene glycols from protein samples using titanium dioxide. Analytical Biochemistry, 2007, 365, 283-285.	2.4	18
118	Quantitating the relative abundance of isoaspartyl residues in deamidated proteins by electron capture dissociation. Journal of the American Society for Mass Spectrometry, 2007, 18, 48-56.	2.8	65
119	First signal on the cryogenic fourier-transform ion cyclotron resonance mass spectrometer. Journal of the American Society for Mass Spectrometry, 2007, 18, 2090-2093.	2.8	8
120	A low-noise, wideband preamplifier for a fourier-transform ion cyclotron resonance mass spectrometer. Journal of the American Society for Mass Spectrometry, 2007, 18, 2233-2241.	2.8	16
121	Molecular characterization of myelin protein zero in Xenopus laevis peripheral nerve: Equilibrium between non-covalently associated dimer and monomer. International Journal of Mass Spectrometry, 2007, 268, 304-315.	1.5	12
122	Design and implementation of a high power rf oscillator on a printed circuit board for multipole ion guides. Review of Scientific Instruments, 2006, 77, 114101.	1.3	20
123	Detecting Deamidation Products in Proteins by Electron Capture Dissociation. Analytical Chemistry, 2006, 78, 1264-1271.	6.5	78
124	Detailed Map of Oxidative Post-Translational Modifications of Human P21Ras Using Fourier Transform Mass Spectrometry. Analytical Chemistry, 2006, 78, 5134-5142.	6.5	32
125	A new hybrid electrospray Fourier transform mass spectrometer: design and performance characteristics. Rapid Communications in Mass Spectrometry, 2006, 20, 259-266.	1.5	50
126	Differentiation of aspartic and isoaspartic acids using electron transfer dissociation. Journal of the American Society for Mass Spectrometry, 2006, 17, 15-19.	2.8	112

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127	Algorithms for automatic interpretation of high resolution mass spectra. Journal of the American Society for Mass Spectrometry, 2006, 17, 459-468.	2.8	60
128	Long-lived electron capture dissociation product ions experience radical migration via hydrogen abstraction. Journal of the American Society for Mass Spectrometry, 2006, 17, 576-585.	2.8	120
129	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.	2.8	42
130	The effect of radical trap moieties on electron capture dissociation spectra of substance P. Journal of the American Society for Mass Spectrometry, 2006, 17, 1429-1436.	2.8	41
131	Use of a double resonance electron capture dissociation experiment to probe fragment intermediate lifetimes. Journal of the American Society for Mass Spectrometry, 2006, 17, 1605-1615.	2.8	69
132	A minimum thickness gate valve with integrated ion optics for mass spectrometry. Journal of the American Society for Mass Spectrometry, 2005, 16, 441-445.	2.8	11
133	Ganglioside analysis by thin-layer chromatography matrix-assisted laser desorption/ionization orthogonal time-of-flight mass spectrometry. Journal of the American Society for Mass Spectrometry, 2005, 16, 1552-1560.	2.8	80
134	Characterization of a new qQq-FTICR mass spectrometer for post-translational modification analysis and top-down tandem mass spectrometry of whole proteins. Journal of the American Society for Mass Spectrometry, 2005, 16, 1985-1999.	2.8	57
135	Reverse transcription-associated dephosphorylation of hepadnavirus nucleocapsids. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 9020-9025.	7.1	113
136	Deamidation: Differentiation of aspartyl from isoaspartyl products in peptides by electron capture dissociation. Protein Science, 2005, 14, 452-463.	7.6	154
137	T Cell Activation by Lipopeptide Antigens. Science, 2004, 303, 527-531.	12.6	255
138	High pressure MALDI-FTMS: implications for proteomics. International Journal of Mass Spectrometry, 2004, 234, 203-212.	1.5	9
139	A high pressure matrix-assisted laser desorption ion source for Fourier transform mass spectrometry designed to accommodate large targets with diverse surfaces. Journal of the American Society for Mass Spectrometry, 2004, 15, 128-132.	2.8	58
140	Use of Statistical Methods for Estimation of Total Number of Charges in a Mass Spectrometry Experiment. Analytical Chemistry, 2004, 76, 2756-2762.	6.5	18
141	Coupling Thin-Layer Chromatography with Vibrational Cooling Matrix-Assisted Laser Desorption/Ionization Fourier Transform Mass Spectrometry for the Analysis of Ganglioside Mixtures. Analytical Chemistry, 2004, 76, 6484-6491.	6.5	105
142	Electron Capture Dissociation Initiates a Free Radical Reaction Cascade. Journal of the American Chemical Society, 2003, 125, 8949-8958.	13.7	211
143	Attomole Peptide Analysis by High-Pressure Matrix-Assisted Laser Desorption/Ionization Fourier Transform Mass Spectrometry. Analytical Chemistry, 2003, 75, 6449-6454.	6.5	39
144	Influence of Charge State on Product Ion Mass Spectra and the Determination of 4S/6S Sulfation Sequence of Chondroitin Sulfate Oligosaccharides. Analytical Chemistry, 2002, 74, 3760-3771.	6.5	62

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145	Characterization of Transthyretin Variants in Familial Transthyretin Amyloidosis by Mass Spectrometric Peptide Mapping and DNA Sequence Analysis. Analytical Chemistry, 2002, 74, 741-751.	6.5	57
146	Tandem Mass Spectrometry for Structural Characterization of Proline-Rich Proteins:Â Application to Salivary PRP-3. Analytical Chemistry, 2002, 74, 4124-4132.	6.5	60
147	A high voltage RF oscillator for driving multipole ion guides. Journal of the American Society for Mass Spectrometry, 2002, 13, 1370-1375.	2.8	31
148	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.	2.8	42
149	High pressure matrix-assisted laser desorption/ionization Fourier transform mass spectrometry for minimization of ganglioside fragmentation. Journal of the American Society for Mass Spectrometry, 2002, 13, 402-407.	2.8	89
150	Considerations for design of a Fourier transform mass spectrometer in the 4.2?K cold bore of a superconducting magnet. Rapid Communications in Mass Spectrometry, 2002, 16, 1160-1167.	1.5	10
151	A high pressure matrix-assisted laser desorption/ionization Fourier transform mass spectrometry ion source for thermal stabilization of labile biomolecules. Rapid Communications in Mass Spectrometry, 2001, 15, 1862-1868.	1.5	116
152	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. Journal of Mass Spectrometry, 2001, 36, 479-492.	1.6	59
153	Internal Calibration on Adjacent Samples (InCAS) with Fourier Transform Mass Spectrometry. Analytical Chemistry, 2000, 72, 5881-5885.	6.5	69
154	Application of Multishot Acquisition in Fourier Transform Mass Spectrometry. Analytical Chemistry, 2000, 72, 5125-5130.	6.5	24
155	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.	6.5	47
156	Isotopic Assignment in Large-Molecule Mass Spectra by Fragmentation of a Selected Isotopic Peak. Analytical Chemistry, 1996, 68, 542-545.	6.5	28
157	Sequence tag identification of intact proteins by matching tanden mass spectral data against sequence data bases.. Proceedings of the National Academy of Sciences of the United States of America, 1996, 93, 8264-8267.	7.1	219
158	Broadband Quadrupolar Axialization of Large Multiply Charged Ions to Enhance Measurement and Minimize Conformational Restrictions. , 1996, 31, 555-559.		11
159	193 nm photodissociation of larger multiply-charged biomolecules. International Journal of Mass Spectrometry and Ion Processes, 1996, 157-158, 357-364.	1.8	103
160	Tandem mass specatrometry of carbonic anhydrase (29 kDa). Journal of Mass Spectrometry, 1995, 30, 88-93.	1.6	54
161	Distinguishing N- and C-terminus ions for mass spectrometry sequencing of proteins without prior degradation. Rapid Communications in Mass Spectrometry, 1995, 9, 871-876.	1.5	25
162	Complete large-molecule high-resolution mass spectra from 50-femtomole microvolume injection. Journal of the American Society for Mass Spectrometry, 1995, 6, 220-221.	2.8	14

#	Article	IF	Citations
163	High-resolution ion isolation with the ion cyclotron resonance capacitively coupled open cell. Journal of the American Society for Mass Spectrometry, 1995, 6, 533-535.	2.8	33
164	Oligomer Characterization of 4-23 kDa Polymers by Electrospray Fourier Transform Mass Spectrometry. Journal of the American Chemical Society, 1995, 117, 12826-12831.	13.7	90
165	Gas-phase folding and unfolding of cytochrome c cations.. Proceedings of the National Academy of Sciences of the United States of America, 1995, 92, 2451-2454.	7.1	242
166	Infrared Multiphoton Dissociation of Large Multiply Charged Ions for Biomolecule Sequencing. Analytical Chemistry, 1994, 66, 2809-2815.	6.5	724
167	Is superbenzene superaromatic?. Journal of the American Chemical Society, 1991, 113, 1086-1089.	13.7	54
168	MALDI Mass Spectrometry Instrumentation. , 0, , 29-82.		7
169	Stochasticity of poly(2-oxazoline) oligomer hydrolysis determined by tandem mass spectrometry. Polymer Chemistry, 0, , .	3.9	0
170	Fine Structure in Isotopic Peak Distributions Measured Using Fourier Transform Ion Cyclotron Resonance Mass Spectrometry: A Comparison between an Infinity ICR Cell and a Dynamically Harmonized ICR Cell. Journal of the American Society for Mass Spectrometry, 0, , .	2.8	1