

Christopher L Hendrickson

List of Publications by Year in Descending Order

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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.

140
papers

10,850
citations

54
h-index

102
g-index

143
ext. papers

11,693
ext. citations

5.4
avg, IF

6.09
L-index

#	Paper	IF	Citations
140	The Blood Proteoform Atlas: A reference map of proteoforms in human hematopoietic cells.. <i>Science</i> , 2022 , 375, 411-418	33.3	6
139	Online Coupling of Liquid Chromatography with Fourier Transform Ion Cyclotron Resonance Mass Spectrometry at 21 T Provides Fast and Unique Insight into Crude Oil Composition. <i>Analytical Chemistry</i> , 2021 , 93, 13749-13754	7.8	5
138	Lessons Learned from a Decade-Long Assessment of Asphaltenes by Ultrahigh-Resolution Mass Spectrometry and Implications for Complex Mixture Analysis. <i>Energy & Fuels</i> , 2021 , 35, 16335-16376	4.1	6
137	Advanced Strategies for Proton-Transfer Reactions Coupled with Parallel Ion Parking on a 21 T FT-ICR MS for Intact Protein Analysis. <i>Analytical Chemistry</i> , 2021 , 93, 9119-9128	7.8	3
136	Top-down proteomics-a near-future technique for clinical diagnosis?. <i>Annals of Translational Medicine</i> , 2020 , 8, 136	3.2	2
135	Advances in Asphaltene Petroleomics. Part 4. Compositional Trends of Solubility Subfractions Reveal that Polyfunctional Oxygen-Containing Compounds Drive Asphaltene Chemistry. <i>Energy & Fuels</i> , 2020 , 34, 3013-3030	4.1	41
134	Ultrahigh Resolution Ion Isolation by Stored Waveform Inverse Fourier Transform 21 T Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. <i>Analytical Chemistry</i> , 2020 , 92, 3213-3219	7.8	10
133	Ultra-High Mass Resolving Power, Mass Accuracy, and Dynamic Range MALDI Mass Spectrometry Imaging by 21-T FT-ICR MS. <i>Analytical Chemistry</i> , 2020 , 92, 3133-3142	7.8	29
132	Role of Molecular Structure in the Production of Water-Soluble Species by Photo-oxidation of Petroleum. <i>Environmental Science & Technology</i> , 2020 , 54, 9968-9979	10.3	12
131	Interlaboratory Study for Characterizing Monoclonal Antibodies by Top-Down and Middle-Down Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2020 , 31, 1783-1802	3.5	32
130	Increased Single-Spectrum Top-Down Protein Sequence Coverage in Trapping Mass Spectrometers with Chimeric Ion Loading. <i>Analytical Chemistry</i> , 2020 , 92, 12193-12200	7.8	1
129	Diagnosis of Hemoglobinopathy and β -Thalassemia by 21 Tesla Fourier Transform Ion Cyclotron Resonance Mass Spectrometry and Tandem Mass Spectrometry of Hemoglobin from Blood. <i>Clinical Chemistry</i> , 2019 , 65, 986-994	5.5	17
128	Classification of Plasma Cell Disorders by 21 Tesla Fourier Transform Ion Cyclotron Resonance Top-Down and Middle-Down MS/MS Analysis of Monoclonal Immunoglobulin Light Chains in Human Serum. <i>Analytical Chemistry</i> , 2019 , 91, 3263-3269	7.8	13
127	Positive Ion Electrospray Ionization Suppression in Petroleum and Complex Mixtures. <i>Energy & Fuels</i> , 2018 , 32, 2901-2907	4.1	35
126	21 Tesla FT-ICR Mass Spectrometer for Ultrahigh-Resolution Analysis of Complex Organic Mixtures. <i>Analytical Chemistry</i> , 2018 , 90, 2041-2047	7.8	134
125	Analysis of Monoclonal Antibodies in Human Serum as a Model for Clinical Monoclonal Gammopathy by Use of 21 Tesla FT-ICR Top-Down and Middle-Down MS/MS. <i>Journal of the American Society for Mass Spectrometry</i> , 2017 , 28, 827-838	3.5	39
124	Front-End Electron Transfer Dissociation Coupled to a 21 Tesla FT-ICR Mass Spectrometer for Intact Protein Sequence Analysis. <i>Journal of the American Society for Mass Spectrometry</i> , 2017 , 28, 1787-1795	3.5	27

123	Identification and Characterization of Human Proteoforms by Top-Down LC-21 Tesla FT-ICR Mass Spectrometry. <i>Journal of Proteome Research</i> , 2017 , 16, 1087-1096	5.6	66
122	21 Tesla Fourier Transform Ion Cyclotron Resonance Mass Spectrometer: A National Resource for Ultrahigh Resolution Mass Analysis. <i>Journal of the American Society for Mass Spectrometry</i> , 2015 , 26, 1626-32	3.5	133
121	Effect of magnetic field inhomogeneity on ion cyclotron motion coherence at high magnetic field. <i>European Journal of Mass Spectrometry</i> , 2015 , 21, 443-9	1.1	5
120	Transmission geometry laser desorption atmospheric pressure photochemical ionization mass spectrometry for analysis of complex organic mixtures. <i>Analytical Chemistry</i> , 2014 , 86, 11151-8	7.8	6
119	Controlled ion ejection from an external trap for extended m/z range in FT-ICR mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2014 , 25, 943-9	3.5	30
118	Laserspray and matrix-assisted ionization inlet coupled to high-field FT-ICR mass spectrometry for peptide and protein analysis. <i>Journal of the American Society for Mass Spectrometry</i> , 2013 , 24, 320-8	3.5	24
117	Elemental composition validation from stored waveform inverse Fourier transform (SWIFT) isolation FT-ICR MS isotopic fine structure. <i>Journal of the American Society for Mass Spectrometry</i> , 2013 , 24, 1608-11	3.5	7
116	Top-down structural analysis of an intact monoclonal antibody by electron capture dissociation-Fourier transform ion cyclotron resonance-mass spectrometry. <i>Analytical Chemistry</i> , 2013 , 85, 4239-46	7.8	94
115	Tailored ion radius distribution for increased dynamic range in FT-ICR mass analysis of complex mixtures. <i>Analytical Chemistry</i> , 2013 , 85, 265-72	7.8	28
114	Artifacts induced by selective blanking of time-domain data in Fourier transform mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2013 , 24, 1722-6	3.5	1
113	Fourier transform ion cyclotron resonance mass resolution and dynamic range limits calculated by computer modeling of ion cloud motion. <i>Journal of the American Society for Mass Spectrometry</i> , 2012 , 23, 375-84	3.5	42
112	Baseline correction of absorption-mode Fourier transform ion cyclotron resonance mass spectra. <i>International Journal of Mass Spectrometry</i> , 2012 , 325-327, 67-72	1.9	35
111	Nano-LC FTICR tandem mass spectrometry for top-down proteomics: routine baseline unit mass resolution of whole cell lysate proteins up to 72 kDa. <i>Analytical Chemistry</i> , 2012 , 84, 2111-7	7.8	35
110	Atmospheric pressure laser-induced acoustic desorption chemical ionization mass spectrometry for analysis of saturated hydrocarbons. <i>Analytical Chemistry</i> , 2012 , 84, 7131-7	7.8	40
109	The smallest stable fullerene, M@C ₂₈ (m = Ti, Zr, U): stabilization and growth from carbon vapor. <i>Journal of the American Chemical Society</i> , 2012 , 134, 9380-9	16.4	147
108	Closed network growth of fullerenes. <i>Nature Communications</i> , 2012 , 3, 855	17.4	127
107	High resolution mass spectrometry. <i>Analytical Chemistry</i> , 2012 , 84, 708-19	7.8	177
106	Relative stability of peptide sequence ions generated by tandem mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2012 , 23, 644-54	3.5	12

105	Electrically compensated Fourier transform ion cyclotron resonance cell for complex mixture mass analysis. <i>Analytical Chemistry</i> , 2011 , 83, 6907-10	7.8	94
104	Predator data station: A fast data acquisition system for advanced FT-ICR MS experiments. <i>International Journal of Mass Spectrometry</i> , 2011 , 306, 246-252	1.9	186
103	Identification of Phosphorylated Human Peptides by Accurate Mass Measurement Alone. <i>International Journal of Mass Spectrometry</i> , 2011 , 308, 357-361	1.9	5
102	Excitation of radial ion motion in an rf-only multipole ion guide immersed in a strong magnetic field gradient. <i>Journal of the American Society for Mass Spectrometry</i> , 2011 , 22, 591-601	3.5	11
101	A novel 9.4 tesla FTICR mass spectrometer with improved sensitivity, mass resolution, and mass range. <i>Journal of the American Society for Mass Spectrometry</i> , 2011 , 22, 1343-51	3.5	182
100	Petroleomics: advanced molecular probe for petroleum heavy ends. <i>Journal of Mass Spectrometry</i> , 2011 , 46, 337-43	2.2	151
99	Valence parity to distinguish cPand zIons from electron capture dissociation/electron transfer dissociation of peptides: effects of isomers, isobars, and proteolysis specificity. <i>Analytical Chemistry</i> , 2011 , 83, 8024-8	7.8	6
98	Atmospheric pressure laser-induced acoustic desorption chemical ionization Fourier transform ion cyclotron resonance mass spectrometry for the analysis of complex mixtures. <i>Analytical Chemistry</i> , 2011 , 83, 1616-23	7.8	40
97	Parts-per-billion Fourier transform ion cyclotron resonance mass measurement accuracy with a "walking" calibration equation. <i>Analytical Chemistry</i> , 2011 , 83, 1732-6	7.8	147
96	Unit mass baseline resolution for an intact 148 kDa therapeutic monoclonal antibody by Fourier transform ion cyclotron resonance mass spectrometry. <i>Analytical Chemistry</i> , 2011 , 83, 8391-5	7.8	55
95	Coulombic shielding during ion cyclotron excitation in FT-ICR mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2011 , 301, 220-223	1.9	2
94	Automated broadband phase correction of Fourier transform ion cyclotron resonance mass spectra. <i>Analytical Chemistry</i> , 2010 , 82, 8807-12	7.8	131
93	Petroleomics: a test bed for ultra-high-resolution Fourier transform ion cyclotron resonance mass spectrometry. <i>European Journal of Mass Spectrometry</i> , 2010 , 16, 367-71	1.1	16
92	Automated data reduction for hydrogen/deuterium exchange experiments, enabled by high-resolution Fourier transform ion cyclotron resonance mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2010 , 21, 550-8	3.5	54
91	SIMION modeling of ion image charge detection in Fourier transform ion cyclotron resonance mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2009 , 283, 100-104	1.9	19
90	Periodic sequence distribution of product ion abundances in electron capture dissociation of amphipathic peptides and proteins. <i>Journal of the American Society for Mass Spectrometry</i> , 2009 , 20, 1182-92	3.5	41
89	Automated electrospray ionization FT-ICR mass spectrometry for petroleum analysis. <i>Journal of the American Society for Mass Spectrometry</i> , 2009 , 20, 263-8	3.5	37
88	Kinetic determination of potassium affinities by IRMPD: elucidation of precursor ion structures. <i>Journal of Physical Chemistry A</i> , 2009 , 113, 7779-83	2.8	8

87	Microchip atmospheric pressure photoionization for analysis of petroleum by Fourier transform ion cyclotron resonance mass spectrometry. <i>Analytical Chemistry</i> , 2009 , 81, 2799-803	7.8	26
86	High-resolution mass spectrometers. <i>Annual Review of Analytical Chemistry</i> , 2008 , 1, 579-99	12.5	269
85	Automated liquid injection field desorption/ionization for Fourier transform ion cyclotron resonance mass spectrometry. <i>Analytical Chemistry</i> , 2008 , 80, 7379-82	7.8	28
84	High-performance mass spectrometry: Fourier transform ion cyclotron resonance at 14.5 Tesla. <i>Analytical Chemistry</i> , 2008 , 80, 3985-90	7.8	177
83	The Hybrid cell: A new compensated infinity cell for larger radius ion excitation in Fourier transform ion cyclotron resonance mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2008 , 22, 1423-9	2.2	8
82	Electron capture dissociation implementation progress in Fourier transform ion cyclotron resonance mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2008 , 19, 762-71	3.5	30
81	Sulfur Speciation in Petroleum: Atmospheric Pressure Photoionization or Chemical Derivatization and Electrospray Ionization Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. <i>Energy & Fuels</i> , 2007 , 21, 2869-2874	4.1	154
80	Modification of trapping potential by inverted sidekick electrode voltage during detection to extend time-domain signal duration for significantly enhanced fourier transform ion cyclotron resonance mass resolution. <i>Analytical Chemistry</i> , 2007 , 79, 3575-80	7.8	10
79	Ion activation in electron capture dissociation to distinguish between N-terminal and C-terminal product ions. <i>Analytical Chemistry</i> , 2007 , 79, 7596-602	7.8	62
78	Speciation of nitrogen containing aromatics by atmospheric pressure photoionization or electrospray ionization fourier transform ion cyclotron resonance mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2007 , 18, 1265-73	3.5	103
77	Atmospheric pressure photoionization proton transfer for complex organic mixtures investigated by fourier transform ion cyclotron resonance mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2007 , 18, 1682-9	3.5	90
76	Impact of ion magnetron motion on electron capture dissociation Fourier transform ion cyclotron resonance mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2006 , 255-256, 144-149	1.9	31
75	Probing protein ligand interactions by automated hydrogen/deuterium exchange mass spectrometry. <i>Analytical Chemistry</i> , 2006 , 78, 1005-14	7.8	250
74	Atmospheric pressure photoionization fourier transform ion cyclotron resonance mass spectrometry for complex mixture analysis. <i>Analytical Chemistry</i> , 2006 , 78, 5906-12	7.8	217
73	External electron ionization 7T Fourier transform ion cyclotron resonance mass spectrometer for resolution and identification of volatile organic mixtures. <i>Review of Scientific Instruments</i> , 2006 , 77, 025102	1.7	6
72	Comprehensive Compositional Analysis of Hydrotreated and Untreated Nitrogen-Concentrated Fractions from Syncrude Oil by Electron Ionization, Field Desorption Ionization, and Electrospray Ionization Ultrahigh-Resolution FT-ICR Mass Spectrometry. <i>Energy & Fuels</i> , 2006 , 20, 1235-1241	4.1	70
71	Nonpolar Compositional Analysis of Vacuum Gas Oil Distillation Fractions by Electron Ionization Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. <i>Energy & Fuels</i> , 2006 , 20, 661-667	4.1	51
70	Fourier Transform Ion Cyclotron Resonance Mass Spectrometry 2006 ,		1

69	Charge location directs electron capture dissociation of peptide dications. <i>Journal of the American Society for Mass Spectrometry</i> , 2006 , 17, 1704-11	3.5	31
68	Combined top-down and bottom-up mass spectrometric approach to characterization of biomarkers for renal disease. <i>Analytical Chemistry</i> , 2005 , 77, 7163-71	7.8	82
67	Instrumentation and method for ultrahigh resolution field desorption ionization fourier transform ion cyclotron resonance mass spectrometry of nonpolar species. <i>Analytical Chemistry</i> , 2005 , 77, 1317-24	7.8	68
66	Structural characterization of the GM1 ganglioside by infrared multiphoton dissociation, electron capture dissociation, and electron detachment dissociation electrospray ionization FT-ICR MS/MS. <i>Journal of the American Society for Mass Spectrometry</i> , 2005 , 16, 752-62	3.5	53
65	Evaluation and optimization of electron capture dissociation efficiency in fourier transform ion cyclotron resonance mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2005 , 16, 1060-6	3.5	29
64	Free electron laser-Fourier transform ion cyclotron resonance mass spectrometry facility for obtaining infrared multiphoton dissociation spectra of gaseous ions. <i>Review of Scientific Instruments</i> , 2005 , 76, 023103	1.7	273
63	Continuous-flow sample introduction for field desorption/ionization mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2004 , 18, 1641-1644	2.2	31
62	Structurally related non-covalent complexes examined by quadrupole ion trap (QIT) MS2 and infrared multiphoton dissociation Fourier transform ion cyclotron resonance mass spectrometry IRMPD-FT-ICR MS: evidence for salt-bridge structures in the gas phase. <i>International Journal of Mass Spectrometry</i> , 2004 , 237, 33-45	1.9	18
61	Construction of a hybrid quadrupole/Fourier transform ion cyclotron resonance mass spectrometer for versatile MS/MS above 10 kDa. <i>Journal of the American Society for Mass Spectrometry</i> , 2004 , 15, 1099-1108	3.5	101
60	Wavelength resolved laser-induced fluorescence emission of . <i>Chemical Physics Letters</i> , 2004 , 394, 188-193	3.5	13
59	Theoretical and experimental prospects for protein identification based solely on accurate mass measurement. <i>Journal of Proteome Research</i> , 2004 , 3, 61-7	5.6	71
58	Ion "threshing": collisionally activated dissociation in an external octopole ion trap by oscillation of an axial electric potential gradient. <i>Analytical Chemistry</i> , 2004 , 76, 1545-9	7.8	8
57	Broadband phase correction of FT-ICR mass spectra via simultaneous excitation and detection. <i>Analytical Chemistry</i> , 2004 , 76, 5756-61	7.8	51
56	Time resolved laser-induced fluorescence of electrosprayed ions confined in a linear quadrupole trap. <i>Review of Scientific Instruments</i> , 2004 , 75, 4511-4515	1.7	25
55	Improved mass analysis of oligoribonucleotides by ¹³ C, ¹⁵ N double depletion and electrospray ionization FT-ICR mass spectrometry. <i>Analytical Chemistry</i> , 2004 , 76, 1804-9	7.8	7
54	Determination of the activation energy for unimolecular dissociation of a non-covalent gas-phase peptide: substrate complex by infrared multiphoton dissociation fourier transform ion cyclotron resonance mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2003 , 14, 1282-9	3.5	13
53	High-resolution field desorption/ionization fourier transform ion cyclotron resonance mass analysis of nonpolar molecules. <i>Analytical Chemistry</i> , 2003 , 75, 2172-6	7.8	75
52	Combined electron capture and infrared multiphoton dissociation for multistage MS/MS in a Fourier transform ion cyclotron resonance mass spectrometer. <i>Analytical Chemistry</i> , 2003 , 75, 3256-62	7.8	228

51	Fourier transform ion cyclotron resonance detection: principles and experimental configurations. <i>International Journal of Mass Spectrometry</i> , 2002 , 215, 59-75	1.9	154
50	Improved ion extraction from a linear octopole ion trap: SIMION analysis and experimental demonstration. <i>Journal of the American Society for Mass Spectrometry</i> , 2002 , 13, 1304-12	3.5	138
49	Direct detection and quantitation of He@C60 by ultrahigh-resolution Fourier transform ion cyclotron resonance mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2002 , 13, 1349-55	3.5	7
48	Mapping of protein:protein contact surfaces by hydrogen/deuterium exchange, followed by on-line high-performance liquid chromatography-electrospray ionization Fourier-transform ion-cyclotron-resonance mass analysis. <i>Journal of Chromatography A</i> , 2002 , 982, 85-95	4.5	41
47	Quadrature detection for the separation of the signals of positive and negative ions in Fourier transform ion cyclotron resonance mass spectrometry. <i>AIP Conference Proceedings</i> , 2002 ,	0	2
46	Resolution of Individual Component Fluorescence Lifetimes from a Mixture of Trapped Ions by Laser-Induced Fluorescence/Ion Cyclotron Resonance \square <i>Journal of Physical Chemistry A</i> , 2002 , 106, 10033-10036 ¹⁶	2.8	16
45	Composition of explosives by electrospray ionization Fourier transform ion cyclotron resonance mass spectrometry. <i>Analytical Chemistry</i> , 2002 , 74, 1879-83	7.8	53
44	Scaling MS plateaus with high-resolution FT-ICRMS. <i>Analytical Chemistry</i> , 2002 , 74, 252A-259A	7.8	95
43	Charge reduction lowers mass resolving power for isotopically resolved electrospray ionization Fourier transform ion cyclotron resonance mass spectra. <i>Rapid Communications in Mass Spectrometry</i> , 2001 , 15, 232-235	2.2	26
42	Direct optical spectroscopy of gas-phase molecular ions trapped and mass-selected by ion cyclotron resonance: laser-induced fluorescence excitation spectrum of hexafluorobenzene (C6F6 ⁺). <i>Chemical Physics Letters</i> , 2001 , 334, 69-75	2.5	33
41	Molecular characterization of petroporphyrins in crude oil by electrospray ionization Fourier transform ion cyclotron resonance mass spectrometry. <i>Canadian Journal of Chemistry</i> , 2001 , 79, 546-551 ^{0.9}	0.9	90
40	Reading Chemical Fine Print: Resolution and Identification of 3000 Nitrogen-Containing Aromatic Compounds from a Single Electrospray Ionization Fourier Transform Ion Cyclotron Resonance Mass Spectrum of Heavy Petroleum Crude Oil. <i>Energy & Fuels</i> , 2001 , 15, 492-498	4.1	279
39	Elemental Composition Analysis of Processed and Unprocessed Diesel Fuel by Electrospray Ionization Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. <i>Energy & Fuels</i> , 2001 , 15, 1186-1193	4.1	160
38	High-sensitivity electron capture dissociation tandem FTICR mass spectrometry of microelectrosprayed peptides. <i>Analytical Chemistry</i> , 2001 , 73, 3605-10	7.8	68
37	High sensitivity Fourier transform ion cyclotron resonance mass spectrometry for biological analysis with nano-LC and microelectrospray ionization. <i>Analytical Chemistry</i> , 2001 , 73, 1721-5	7.8	58
36	Baseline mass resolution of peptide isobars: a record for molecular mass resolution. <i>Analytical Chemistry</i> , 2001 , 73, 647-50	7.8	87
35	Kendrick mass defect spectrum: a compact visual analysis for ultrahigh-resolution broadband mass spectra. <i>Analytical Chemistry</i> , 2001 , 73, 4676-81	7.8	593
34	Mass-selective ion accumulation and fragmentation in a linear octopole ion trap external to a Fourier transform ion cyclotron resonance mass spectrometer. <i>International Journal of Mass Spectrometry</i> , 2000 , 198, 113-120	1.9	42

33	Comparison and interconversion of the two most common frequency-to-mass calibration functions for Fourier transform ion cyclotron resonance mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2000 , 195-196, 591-598	1.9	164
32	Stable isotope incorporation triples the upper mass limit for determination of elemental composition by accurate mass measurement. <i>Journal of the American Society for Mass Spectrometry</i> , 2000 , 11, 835-40	3.5	33
31	Competitive binding to the oligopeptide binding protein, OppA: in-trap cleanup in an Fourier transform ion cyclotron resonance mass spectrometer. <i>Journal of the American Society for Mass Spectrometry</i> , 2000 , 11, 1023-6	3.5	11
30	Unequivocal determination of metal atom oxidation state in naked heme proteins: Fe(III)myoglobin, Fe(III)cytochrome c, Fe(III)cytochrome b5, and Fe(III)cytochrome b5 L47R. <i>Journal of the American Society for Mass Spectrometry</i> , 2000 , 11, 120-6	3.5	53
29	Determination of Relative Ordering of Activation Energies for Gas-Phase Ion Unimolecular Dissociation by Infrared Radiation for Gaseous Multiphoton Energy Transfer. <i>Journal of the American Chemical Society</i> , 2000 , 122, 7768-7775	16.4	35
28	Isotopic Amplification, H/D Exchange, and Other Mass Spectrometric Strategies for Characterization of Biomacromolecular Topology and Binding Sites 2000 , 31-52		2
27	Electrospray ionization Fourier transform ion cyclotron resonance mass spectrometry. <i>Annual Review of Physical Chemistry</i> , 1999 , 50, 517-36	15.7	86
26	Gas-phase bovine ubiquitin cation conformations resolved by gas-phase hydrogen/deuterium exchange rate and extent. <i>International Journal of Mass Spectrometry</i> , 1999 , 185-187, 565-575	1.9	119
25	Fourier transform ion cyclotron resonance mass spectrometry in a high homogeneity 25 tesla resistive magnet. <i>Journal of the American Society for Mass Spectrometry</i> , 1999 , 10, 265-268	3.5	17
24	Gas phase activation energy for unimolecular dissociation of biomolecular ions determined by focused RADIATION for gaseous multiphoton ENERGY transfer (FRAGMENT). <i>Rapid Communications in Mass Spectrometry</i> , 1999 , 13, 1639-42	2.2	38
23	Digital Quadrature Heterodyne Detection for High-Resolution Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. <i>Analytical Chemistry</i> , 1999 , 71, 4758-4763	7.8	14
22	Identification of intact proteins in mixtures by alternated capillary liquid chromatography electrospray ionization and LC ESI infrared multiphoton dissociation Fourier transform ion cyclotron resonance mass spectrometry. <i>Analytical Chemistry</i> , 1999 , 71, 4397-402	7.8	108
21	Structural validation of saccharomycins by high resolution and high mass accuracy fourier transform-ion cyclotron resonance-mass spectrometry and infrared multiphoton dissociation tandem mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 1999 , 10, 1285-1290	3.5	32
20	Posttranslational heterocyclization of cysteine and serine residues in the antibiotic microcin B17: distributivity and directionality. <i>Biochemistry</i> , 1999 , 38, 15623-30	3.2	77
19	Fourier transform ion cyclotron resonance mass spectrometry: a primer. <i>Mass Spectrometry Reviews</i> , 1998 , 17, 1-35	11	1537
18	Application of micro-electrospray liquid chromatography techniques to FT-ICR MS to enable high-sensitivity biological analysis. <i>Journal of the American Society for Mass Spectrometry</i> , 1998 , 9, 333-40	3.5	156
17	High-field fourier transform ion cyclotron resonance mass spectrometry for simultaneous trapping and gas-phase hydrogen/deuterium exchange of peptide ions. <i>Journal of the American Society for Mass Spectrometry</i> , 1998 , 9, 1012-1019	3.5	56
16	High-resolution electrospray ionization Fourier transform mass spectrometry with infrared multiphoton dissociation of glucokinase from <i>Bacillus Stearothermophilus</i> . <i>Journal of the American Society for Mass Spectrometry</i> , 1998 , 9, 1222-5	3.5	13

15	Conformational and dynamic changes of Yersinia protein tyrosine phosphatase induced by ligand binding and active site mutation and revealed by H/D exchange and electrospray ionization Fourier transform ion cyclotron resonance mass spectrometry. <i>Biochemistry</i> , 1998 , 37, 15289-99	3.2	72
14	Resolution, Elemental Composition, and Simultaneous Monitoring by Fourier Transform Ion Cyclotron Resonance Mass Spectrometry of Organosulfur Species before and after Diesel Fuel Processing. <i>Analytical Chemistry</i> , 1998 , 70, 4743-4750	7.8	80
13	Identification, Composition, and Asymmetric Formation Mechanism of Glycidyl Methacrylate/Butyl Methacrylate Copolymers up to 7000 Da from Electrospray Ionization Ultrahigh-Resolution Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. <i>Analytical Chemistry</i> , 1998 , 70, 3220-6	7.8	38
12	Gas-Phase RNA and DNA Ions. 1. H/D Exchange of the [M - H] ⁻ Anions of Nucleoside 5-Monophosphates (GMP, dGMP, AMP, dAMP, CMP, dCMP, UMP, dTMP), Ribose 5-Monophosphate, and 2-Deoxyribose 5-Monophosphate with D ₂ O and D ₂ S. <i>Journal of the American Chemical Society</i> , 1998 , 120, 10187-10193	16.4	58
11	External accumulation of ions for enhanced electrospray ionization fourier transform ion cyclotron resonance mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 1997 , 8, 970-976	3.5	428
10	Two-plate vs. four-plate azimuthal quadrupolar excitation for FT-ICR mass spectrometry. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1997 , 165-166, 327-338		13
9	Electrospray ionization Fourier transform ion cyclotron resonance at 9.4 T. <i>Rapid Communications in Mass Spectrometry</i> , 1996 , 10, 1824-8	2.2	195
8	Fourier transform ion cyclotron resonance mass spectrometry in a 20 T resistive magnet. <i>Rapid Communications in Mass Spectrometry</i> , 1996 , 10, 1829-32	2.2	20
7	Electrospray Ionization Fourier Transform Ion Cyclotron Resonance at 9.4 T 1996 , 10, 1824		4
6	Electron beam potential depression as an ion trap in Fourier transform ion cyclotron resonance mass spectrometry. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1995 , 141, 161-170		12
5	High performance detection of biomolecules using a high magnetic field electrospray ionization source/Fourier transform ion cyclotron resonance mass spectrometer. <i>Review of Scientific Instruments</i> , 1995 , 66, 4507-4515	1.7	10
4	Initiation of coherent magnetron motion following ion injection into a Fourier transform ion cyclotron resonance trapped ion cell. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1993 , 123, 49-58		16
3	Two-dimensional coulomb-induced frequency modulation in Fourier transform ion cyclotron resonance: A mechanism for line broadening at high mass and for large ion populations. <i>Journal of the American Society for Mass Spectrometry</i> , 1993 , 4, 909-16	3.5	23
2	Debye-shielding mechanism for trapping ions formed by laser desorption Fourier transform ion cyclotron resonance mass spectrometry. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1992 , 113, 59-79		14
1	A multi-modal proteomics strategy for characterizing posttranslational modifications of tumor suppressor p53 reveals many sites but few modified forms		1