

Alan G Marshall

List of PR Articles by Year in descending order

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Version: 2025-02-01

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citing authors

#	ARTICLE	IF	PR CITATIONS
1	Analysis of Isotopically Depleted Proteins Derived from <i>Escherichia coli</i> and <i>Caenorhabditis elegans</i> Cell Lines by Liquid Chromatography 21 T Fourier Transform-Ion Cyclotron Resonance Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2023, 34, 137-144.	2.6	11
2	Past to Future: Application of Gel Permeation Chromatography from Petroleomics and Metallopetroleomics to New Energies Applications: A Minireview. <i>Energy & Fuels</i> , 2023, 37, 8867-8882.	5.2	7
3	A PERSONAL SCIENTIFIC HISTORY. <i>Mass Spectrometry Reviews</i> , 2022, 41, 243-247.	6.9	1
4	Characterization of Structural Hemoglobin Variants by Top-Down Mass Spectrometry and R Programming Tools for Rapid Identification. <i>Journal of the American Society for Mass Spectrometry</i> , 2022, 33, 123-130.	2.6	8
5	Neural correlates of texture perception during active touch. <i>Behavioural Brain Research</i> , 2022, 429, 113908.	2.3	11
6	Complex Mixture Analysis of Emerging Contaminants Generated from Coal Tar- and Petroleum-Derived Pavement Sealants: Molecular Compositions and Correlations with Toxicity Revealed by Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. <i>Environmental Science & Technology</i> , 2022, 56, 12988-12998.	11.1	14
7	Maltene and Asphaltene Contributions to the Formation of Water-Soluble Emerging Contaminants from Photooxidation of Paving Materials. <i>Energy & Fuels</i> , 2022, 36, 13060-13072.	5.2	9
8	Structural Dependence of Photogenerated Transformation Products for Aromatic Hydrocarbons Isolated from Petroleum. <i>Energy & Fuels</i> , 2021, 35, 18153-18162.	5.2	6
9	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.	5.2	55
10	High Resolution Mass Spectrometry Advances in Oil Spill Analysis. <i>International Oil Spill Conference Proceedings</i> , 2021, 2021, .	0.1	1
11	Probing the Impact of the Knob-into-Hole Mutations on the Structure and Function of a Therapeutic Antibody. <i>Analytical Chemistry</i> , 2020, 92, 1582-1588.	6.5	13
12	Molecular Composition of Photooxidation Products Derived from Sulfur-Containing Compounds Isolated from Petroleum Samples. <i>Energy & Fuels</i> , 2020, 34, 14493-14504.	5.2	16
13	Molecular Characterization of Photochemically Produced Asphaltenes via Photooxidation of Deasphalted Crude Oils. <i>Energy & Fuels</i> , 2020, 34, 14419-14428.	5.2	27
14	Probing Aggregation Tendencies in Asphaltenes by Gel Permeation Chromatography. Part 2: Online Detection by Fourier Transform Ion Cyclotron Resonance Mass Spectrometry and Inductively Coupled Plasma Mass Spectrometry. <i>Energy & Fuels</i> , 2020, 34, 10915-10925.	5.2	31
15	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.	11.1	29
16	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.	2.6	96
17	Tracking Elemental Composition through Hydrotreatment of an Upgraded Pyrolysis Oil Blended with a Light Gas Oil. <i>Energy & Fuels</i> , 2020, 34, 16181-16186.	5.2	14
18	Probing Aggregation Tendencies in Asphaltenes by Gel Permeation Chromatography. Part 1: Online Inductively Coupled Plasma Mass Spectrometry and Offline Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. <i>Energy & Fuels</i> , 2020, 34, 8308-8315.	5.2	28

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19	Detailed chemical composition of an oak biocrude and its hydrotreated product determined by positive atmospheric pressure photoionization Fourier transform ion cyclotron resonance mass spectrometry. <i>Sustainable Energy and Fuels</i> , 2020, 4, 2404-2410.	3.9	12
20	Top-down proteomics—a near-future technique for clinical diagnosis?. <i>Annals of Translational Medicine</i> , 2020, 8, 136-136.	1.8	7
21	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.	5.2	88
22	Analysis of non-conjugated steroids in water using paper spray mass spectrometry. <i>Scientific Reports</i> , 2020, 10, .	3.5	17
23	Characterization of an Asphalt Binder and Photoproducts by Fourier Transform Ion Cyclotron Resonance Mass Spectrometry Reveals Abundant Water-Soluble Hydrocarbons. <i>Environmental Science & Technology</i> , 2020, 54, 8830-8836.	11.1	35
24	Comprehensive Compositional and Structural Comparison of Coal and Petroleum Asphaltenes Based on Extrography Fractionation Coupled with Fourier Transform Ion Cyclotron Resonance MS and MS/MS Analysis. <i>Energy & Fuels</i> , 2020, 34, 1492-1505.	5.2	39
25	Molecular-Based Nano-Communication Network: A Ring Topology Nano-Bots for In-Vivo Drug Delivery Systems. <i>IEEE Access</i> , 2019, 7, 12901-12913.	3.1	8
26	Molecular-Level Characterization of Oil-Soluble Ketone/Aldehyde Photo-Oxidation Products by Fourier Transform Ion Cyclotron Resonance Mass Spectrometry Reveals Similarity Between Microcosm and Field Samples. <i>Environmental Science & Technology</i> , 2019, 53, 6887-6894.	11.1	54
27	Combating selective ionization in the high resolution mass spectral characterization of complex mixtures. <i>Faraday Discussions</i> , 2019, 218, 29-51.	3.0	61
28	Characterization of Ketones Formed in the Open System Corrosion Test of Naphthenic Acids by Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. <i>Energy & Fuels</i> , 2019, 33, 4946-4950.	5.2	8
29	Diagnosis of Hemoglobinopathy and β^2 -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.	1.1	38
30	Nanostructure of Gasification Charcoal (Biochar). <i>Environmental Science & Technology</i> , 2019, 53, 3538-3546.	11.1	28
31	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.	6.5	24
32	SDN-Based SYN Proxy—A Solution to Enhance Performance of Attack Mitigation Under TCP SYN Flood. <i>Computer Journal</i> , 2019, 62, 518-534.	1.7	25
33	Mechanistic Origins of Enzyme Activation in Human Glucokinase Variants Associated with Congenital Hyperinsulinism. <i>Biochemistry</i> , 2018, 57, 1632-1639.	2.4	13
34	Middle-Down Characterization of the Cell Cycle Dependence of Histone H4 Posttranslational Modifications and Proteoforms. <i>Proteomics</i> , 2018, 18, .	3.1	43
35	Positive Ion Electrospray Ionization Suppression in Petroleum and Complex Mixtures. <i>Energy & Fuels</i> , 2018, 32, 2901-2907.	5.2	47
36	Statistically Significant Differences in Composition of Petroleum Crude Oils Revealed by Volcano Plots Generated from Ultrahigh Resolution Fourier Transform Ion Cyclotron Resonance Mass Spectra. <i>Energy & Fuels</i> , 2018, 32, 1206-1212.	5.2	28

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37	Linking Natural Oil Seeps from the Gulf of Mexico to Their Origin by Use of Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. <i>Environmental Science & Technology</i> , 2018, 52, 1365-1374.	11.1	24
38	Protein de novo sequencing by top-down and middle-down MS/MS: Limitations imposed by mass measurement accuracy and gaps in sequence coverage. <i>International Journal of Mass Spectrometry</i> , 2018, 427, 107-113.	1.6	14
39	Spontaneous Calcium-Independent Dimerization of the Isolated First Domain of Neural Cadherin. <i>Biochemistry</i> , 2018, 57, 6404-6415.	2.4	3
40	Analysis of Petroleum Products by Gel Permeation Chromatography Coupled Online with Inductively Coupled Plasma Mass Spectrometry and Offline with Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. <i>Energy & Fuels</i> , 2018, 32, 12198-12204.	5.2	27
41	Control of Hexamerization, Assembly, and Excluded Strand Specificity for the <i>Sulfolobus solfataricus</i> MCM Helicase. <i>Biochemistry</i> , 2018, 57, 5672-5682.	2.4	5
42	A Chemical Alphabet for Macromolecular Communications. <i>Analytical Chemistry</i> , 2018, 90, 7739-7746.	6.5	30
43	Compositional and Structural Analysis of Silica Gel Fractions from Municipal Waste Pyrolysis Oils. <i>Energy & Fuels</i> , 2018, 32, 7752-7761.	5.2	26
44	Functional Isomers in Petroleum Emulsion Interfacial Material Revealed by Ion Mobility Mass Spectrometry and Collision-Induced Dissociation. <i>Energy & Fuels</i> , 2017, 31, 311-318.	5.2	42
45	Defining Spatial Secrecy Outage Probability for Exposure Region-Based Beamforming. <i>IEEE Transactions on Wireless Communications</i> , 2017, 16, 900-912.	8.4	12
46	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.	2.6	54
47	A Context-Aware Trust Framework for Resilient Distributed Cooperative Spectrum Sensing in Dynamic Settings. <i>IEEE Transactions on Vehicular Technology</i> , 2017, 66, 9177-9191.	5.8	9
48	126 Assigned Chemical Formulas from an Atmospheric Pressure Photoionization 9.4 T Fourier Transform Positive Ion Cyclotron Resonance Mass Spectrum. <i>Analytical Chemistry</i> , 2017, 89, 11318-11324.	6.5	68
49	Pih1p-Tah1p Puts a Lid on Hexameric AAA+ ATPases Rvb1/2p. <i>Structure</i> , 2017, 25, 1519-1529.e4.	3.8	26
50	Method for Isolation and Detection of Ketones Formed from High-Temperature Naphthenic Acid Corrosion. <i>Energy & Fuels</i> , 2017, 31, 10674-10679.	5.2	17
51	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.	2.6	43
52	Advanced Chemical Characterization of Pyrolysis Oils from Landfill Waste, Recycled Plastics, and Forestry Residue. <i>Energy & Fuels</i> , 2017, 31, 8210-8216.	5.2	56
53	Accurate Identification of Unknown and Known Metabolic Mixture Components by Combining 3D NMR with Fourier Transform Ion Cyclotron Resonance Tandem Mass Spectrometry. <i>Journal of Proteome Research</i> , 2017, 16, 3774-3786.	3.5	28
54	The repeat region of cortactin is intrinsically disordered in solution. <i>Scientific Reports</i> , 2017, 7, .	3.5	9

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55	Ultrahigh-resolution Fourier transform ion cyclotron resonance mass spectrometry and tandem mass spectrometry for peptide <i>de novo</i> amino acid sequencing for a seven-protein mixture by paired single-residue transposed Lys-N and Lys-C digestion. <i>Rapid Communications in Mass Spectrometry</i> , 2017, 31, 207-217.	1.5	3
56	Securing Wireless Communications of the Internet of Things from the Physical Layer, An Overview. <i>Entropy</i> , 2017, 19, 420.	1.8	70
57	Mapping the contact surfaces in the Lamin A:AIMP3 complex by hydrogen/deuterium exchange FT-ICR mass spectrometry. <i>PLoS ONE</i> , 2017, 12, e0181869.	2.4	6
58	An Improved Protocol for the Password Authenticated Association of IEEE 802.15.6 Standard That Alleviates Computational Burden on the Node. <i>Symmetry</i> , 2016, 8, 131.	2.0	12
59	Screening Petroleum Crude Oils for ARN Tetraprotic Acids with Molecularly Imprinted Polymers. <i>Energy & Fuels</i> , 2016, 30, 5651-5655.	5.2	11
60	Quantitative Mass Spectrometry Reveals Changes in Histone H2B Variants as Cells Undergo Inorganic Arsenic-Mediated Cellular Transformation. <i>Molecular and Cellular Proteomics</i> , 2016, 15, 2411-2422.	3.0	20
61	DNA Interactions Probed by Hydrogen-Deuterium Exchange (HDX) Fourier Transform Ion Cyclotron Resonance Mass Spectrometry Confirm External Binding Sites on the Minichromosomal Maintenance (MCM) Helicase. <i>Journal of Biological Chemistry</i> , 2016, 291, 12467-12480.	2.2	19
62	Polar Lipid Composition of Biodiesel Algae Candidates <i>Nannochloropsis oculata</i> and <i>Haematococcus pluvialis</i> from Nano Liquid Chromatography Coupled with Negative Electrospray Ionization 14.5 T Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. <i>Energy & Fuels</i> , 2016, 30, 8270-8276.	5.2	18
63	Label-Free Relative Quantitation of Isobaric and Isomeric Human Histone H2A and H2B Variants by Fourier Transform Ion Cyclotron Resonance Top-Down MS/MS. <i>Journal of Proteome Research</i> , 2016, 15, 3196-3203.	3.5	37
64	Trust-Aware Consensus-Inspired Distributed Cooperative Spectrum Sensing for Cognitive Radio Ad Hoc Networks. <i>IEEE Transactions on Cognitive Communications and Networking</i> , 2016, 2, 24-37.	5.3	37
65	Quantitative Mass Spectrometry Reveals that Intact Histone H1 Phosphorylations are Variant Specific and Exhibit Single Molecule Hierarchical Dependence. <i>Molecular and Cellular Proteomics</i> , 2016, 15, 818-833.	3.0	34
66	Extracting biomolecule collision cross sections from the high-resolution FT-ICR mass spectral linewidths. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 713-717.	2.7	19
67	An ultrahigh-resolution mass spectrometry index to estimate natural organic matter lability. <i>Rapid Communications in Mass Spectrometry</i> , 2015, 29, 2385-2401.	1.5	464
68	Improved ion optics for introduction of ions into a 9.4-T Fourier transform ion cyclotron resonance mass spectrometer. <i>Journal of Mass Spectrometry</i> , 2015, 50, 280-284.	1.7	12
69	Epitope mapping of 7S cashew antigen in complex with antibody by solution-phase H/D exchange monitored by FT-ICR mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2015, 50, 812-819.	1.7	19
70	Paired single residue-transposed Lys-N and Lys-C digestions for label-free identification of N-terminal and C-terminal MS/MS peptide product ions: ultrahigh resolution Fourier transform ion cyclotron resonance mass spectrometry and tandem mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2015, 29, 659-666.	1.5	5
71	The N-terminal Domain of <i>Escherichia coli</i> Assimilatory NADPH-Sulfite Reductase Hemoprotein Is an Oligomerization Domain That Mediates Holoenzyme Assembly. <i>Journal of Biological Chemistry</i> , 2015, 290, 19319-19333.	2.2	18
72	DART Fourier transform ion cyclotron resonance mass spectrometry for analysis of complex organic mixtures. <i>International Journal of Mass Spectrometry</i> , 2015, 378, 186-192.	1.6	31

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73	Large fullerenes in mass spectra. <i>Molecular Physics</i> , 2015, 113, 2359-2361.	2.4	12
74	Isomeric Separation and Structural Characterization of Acids in Petroleum by Ion Mobility Mass Spectrometry. <i>Energy & Fuels</i> , 2015, 29, 3626-3633.	5.2	55
75	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, 1626-1632.	2.6	232
76	40 years of Fourier transform ion cyclotron resonance mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2015, 377, 410-420.	1.6	60
77	Bottom-up formation of endohedral mono-metallofullerenes is directed by charge transfer. <i>Nature Communications</i> , 2014, 5, .	13.9	85
78	Silver Cationization for Rapid Speciation of Sulfur-Containing Species in Crude Oils by Positive Electrospray Ionization Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. <i>Energy & Fuels</i> , 2014, 28, 447-452.	5.2	45
79	Lithium Cationization for Petroleum Analysis by Positive Ion Electrospray Ionization Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. <i>Energy & Fuels</i> , 2014, 28, 6841-6847.	5.2	25
80	Transmission Geometry Laser Desorption Atmospheric Pressure Photochemical Ionization Mass Spectrometry for Analysis of Complex Organic Mixtures. <i>Analytical Chemistry</i> , 2014, 86, 11151-11158.	6.5	6
81	Direct Analysis of Thin-Layer Chromatography Separations of Petroleum Samples by Laser Desorption Ionization Fourier Transform Ion Cyclotron Resonance Mass Spectrometry Imaging. <i>Energy & Fuels</i> , 2014, 28, 6284-6288.	5.2	26
82	Solid-Phase Extraction Fractionation To Extend the Characterization of Naphthenic Acids in Crude Oil by Electrospray Ionization Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. <i>Energy & Fuels</i> , 2014, 28, 5043-5048.	5.2	92
83	Targeted Petroleomics: Analytical Investigation of Macondo Well Oil Oxidation Products from Pensacola Beach. <i>Energy & Fuels</i> , 2014, 28, 4043-4050.	5.2	139
84	Insight into the Mechanism of Graphene Oxide Degradation via the Photo-Fenton Reaction. <i>Journal of Physical Chemistry C</i> , 2014, 118, 10519-10529.	3.1	112
85	Unprecedented Ultrahigh Resolution FT-ICR Mass Spectrometry and Parts-Per-Billion Mass Accuracy Enable Direct Characterization of Nickel and Vanadyl Porphyrins in Petroleum from Natural Seeps. <i>Energy & Fuels</i> , 2014, 28, 2454-2464.	5.2	97
86	Rapid Screening for Potential Epitopes Reactive with a Polyclonal Antibody by Solution-Phase H/D Exchange Monitored by FT-ICR Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2013, 24, 1016-1025.	2.6	31
87	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, 320-328.	2.6	30
88	Heavy Petroleum Composition. 3. Asphaltene Aggregation. <i>Energy & Fuels</i> , 2013, 27, 1246-1256.	5.2	169
89	Expansion of the Analytical Window for Oil Spill Characterization by Ultrahigh Resolution Mass Spectrometry: Beyond Gas Chromatography. <i>Environmental Science & Technology</i> , 2013, 47, 7530-7539.	11.1	159
90	Tetramethylammonium Hydroxide as a Reagent for Complex Mixture Analysis by Negative Ion Electrospray Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2013, 85, 7803-7808.	6.5	30

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91	Oil Spill Source Identification by Principal Component Analysis of Electrospray Ionization Fourier Transform Ion Cyclotron Resonance Mass Spectra. <i>Analytical Chemistry</i> , 2013, 85, 9064-9069.	6.5	57
92	Structural Switch of Lysyl-tRNA Synthetase between Translation and Transcription. <i>Molecular Cell</i> , 2013, 49, 30-42.	13.4	139
93	Characterization of IHSS Pony Lake fulvic acid dissolved organic matter by electrospray ionization Fourier transform ion cyclotron resonance mass spectrometry and fluorescence spectroscopy. <i>Organic Geochemistry</i> , 2013, 65, 19-28.	1.9	135
94	Heavy Petroleum Composition. 4. Asphaltene Compositional Space. <i>Energy & Fuels</i> , 2013, 27, 1257-1267.	5.2	155
95	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, 4239-4246.	6.5	124
96	Tailored Ion Radius Distribution for Increased Dynamic Range in FT-ICR Mass Analysis of Complex Mixtures. <i>Analytical Chemistry</i> , 2013, 85, 265-272.	6.5	54
97	Heavy Petroleum Composition. 5. Compositional and Structural Continuum of Petroleum Revealed. <i>Energy & Fuels</i> , 2013, 27, 1268-1276.	5.2	176
98	Nucleotide-induced conformational changes of tetradecameric GroEL mapped by H/D exchange monitored by FT-ICR mass spectrometry. <i>Scientific Reports</i> , 2013, 3, .	3.5	27
99	Mass Resolution and Mass Accuracy: How Much Is Enough?. <i>Mass Spectrometry</i> , 2013, 2, S0009-S0009.	0.9	55
100	Unique domain appended to vertebrate tRNA synthetase is essential for vascular development. <i>Nature Communications</i> , 2012, 3, .	13.9	103
101	Baseline correction of absorption-mode Fourier transform ion cyclotron resonance mass spectra. <i>International Journal of Mass Spectrometry</i> , 2012, 325-327, 67-72.	1.6	39
102	Characterization of Pine Pellet and Peanut Hull Pyrolysis Bio-oils by Negative-Ion Electrospray Ionization Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. <i>Energy & Fuels</i> , 2012, 26, 3810-3815.	5.2	98
103	Selective Ionization of Dissolved Organic Nitrogen by Positive Ion Atmospheric Pressure Photoionization Coupled with Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. <i>Analytical Chemistry</i> , 2012, 84, 5085-5090.	6.5	32
104	Atmospheric Pressure Laser-Induced Acoustic Desorption Chemical Ionization Mass Spectrometry for Analysis of Saturated Hydrocarbons. <i>Analytical Chemistry</i> , 2012, 84, 7131-7137.	6.5	49
105	Compositional Space Boundaries for Organic Compounds. <i>Analytical Chemistry</i> , 2012, 84, 3410-3416.	6.5	85
106	Identification of Potential Glycoprotein Biomarkers in Estrogen Receptor Positive (ER+) and Negative (ER-) Human Breast Cancer Tissues by LC-LTQ/FT-ICR Mass Spectrometry. <i>Journal of Cancer</i> , 2012, 3, 269-284.	2.7	15
107	Closed network growth of fullerenes. <i>Nature Communications</i> , 2012, 3, .	13.9	177
108	High Resolution Mass Spectrometry. <i>Analytical Chemistry</i> , 2012, 84, 708-719.	6.5	240

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109	Improved Sequence Resolution by Global Analysis of Overlapped Peptides in Hydrogen/Deuterium Exchange Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2012, 23, 1202-1208.	2.6	34
110	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, 375-384.	2.6	47
111	Compositional Boundaries for Fossil Hydrocarbons. <i>Energy & Fuels</i> , 2011, 25, 2174-2178.	5.2	115
112	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, 1616-1623.	6.5	45
113	Parts-Per-Billion Fourier Transform Ion Cyclotron Resonance Mass Measurement Accuracy with a "Walking" Calibration Equation. <i>Analytical Chemistry</i> , 2011, 83, 1732-1736.	6.5	228
114	Epitope Mapping of a 95 kDa Antigen in Complex with Antibody by Solution-Phase Amide Backbone Hydrogen/Deuterium Exchange Monitored by Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. <i>Analytical Chemistry</i> , 2011, 83, 7129-7136.	6.5	112
115	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, 8391-8395.	6.5	62
116	Analysis and Identification of Biomarkers and Origin of Color in a Bright Blue Crude Oil. <i>Energy & Fuels</i> , 2011, 25, 172-182.	5.2	45
117	Differential phosphopeptide expression in a benign breast tissue, and triple-negative primary and metastatic breast cancer tissues from the same African-American woman by LC-LTQ/FT-ICR mass spectrometry. <i>Biochemical and Biophysical Research Communications</i> , 2011, 412, 127-131.	2.1	16
118	Algae Polar Lipids Characterized by Online Liquid Chromatography Coupled with Hybrid Linear Quadrupole Ion Trap/Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. <i>Energy & Fuels</i> , 2011, 25, 4770-4775.	5.2	46
119	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.	1.6	246
120	Identification of phosphorylated human peptides by accurate mass measurement alone. <i>International Journal of Mass Spectrometry</i> , 2011, 308, 357-361.	1.6	7
121	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.	2.6	15
122	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, 1343-1351.	2.6	210
123	Petroleomics: advanced molecular probe for petroleum heavy ends. <i>Journal of Mass Spectrometry</i> , 2011, 46, 337-343.	1.7	184
124	Characterization of naphthenic acids in crude oils and naphthenates by electrospray ionization FT-ICR mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2011, 300, 149-157.	1.6	127
125	Structural context for mobilization of a human tRNA synthetase from its cytoplasmic complex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 8239-8244.	7.6	34
126	Dispersed disease-causing neomorphic mutations on a single protein promote the same localized conformational opening. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 12307-12312.	7.6	68

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127	Petroleomics: A Test Bed for Ultra-High-Resolution Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. <i>European Journal of Mass Spectrometry</i> , 2010, 16, 367-371.	0.9	21
128	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, 550-558.	2.6	57
129	Drug binding and resistance mechanism of KIT tyrosine kinase revealed by hydrogen/deuterium exchange FTICR mass spectrometry. <i>Protein Science</i> , 2010, 19, 703-715.	6.0	26
130	Comprehensive characterization of marine dissolved organic matter by Fourier transform ion cyclotron resonance mass spectrometry with electrospray and atmospheric pressure photoionization. <i>Rapid Communications in Mass Spectrometry</i> , 2010, 24, 643-650.	1.5	120
131	The coupling of direct analysis in real time ionization to Fourier transform ion cyclotron resonance mass spectrometry for ultrahigh-resolution mass analysis. <i>Rapid Communications in Mass Spectrometry</i> , 2010, 24, 784-790.	1.5	56
132	Sites and extent of selenomethionine incorporation into recombinant Cas6 protein by top-down and bottom-up proteomics with 14.5 T Fourier transform ion cyclotron resonance mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2010, 24, 2386-2392.	1.5	4
133	Automated Broadband Phase Correction of Fourier Transform Ion Cyclotron Resonance Mass Spectra. <i>Analytical Chemistry</i> , 2010, 82, 8807-8812.	6.5	180
134	Water-Soluble Atmospheric Organic Matter in Fog: Exact Masses and Chemical Formula Identification by Ultrahigh-Resolution Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. <i>Environmental Science & Technology</i> , 2010, 44, 3690-3697.	11.1	211
135	Stepwise Structural Characterization of Asphaltenes during Deep Hydroconversion Processes Determined by Atmospheric Pressure Photoionization (APPI) Fourier Transform Ion Cyclotron Resonance (FT-ICR) Mass Spectrometry. <i>Energy & Fuels</i> , 2010, 24, 2257-2265.	5.2	129
136	Conformational States of Human Purine Nucleoside Phosphorylase at Rest, at Work, and with Transition State Analogues. <i>Biochemistry</i> , 2010, 49, 2058-2067.	2.4	29
137	Combining biomarker and bulk compositional gradient analysis to assess reservoir connectivity. <i>Organic Geochemistry</i> , 2010, 41, 812-821.	1.9	67
138	Heavy Petroleum Composition. 1. Exhaustive Compositional Analysis of Athabasca Bitumen HVGO Distillates by Fourier Transform Ion Cyclotron Resonance Mass Spectrometry: A Definitive Test of the Boduszynski Model. <i>Energy & Fuels</i> , 2010, 24, 2929-2938.	5.2	146
139	Heavy Petroleum Composition. 2. Progression of the Boduszynski Model to the Limit of Distillation by Ultrahigh-Resolution FT-ICR Mass Spectrometry. <i>Energy & Fuels</i> , 2010, 24, 2939-2946.	5.2	108
140	KIT kinase mutants show unique mechanisms of drug resistance to imatinib and sunitinib in gastrointestinal stromal tumor patients. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 1542-1547.	7.6	368
141	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.	1.6	22
142	Fast reversed-phase liquid chromatography to reduce back exchange and increase throughput in H/D exchange monitored by FT-ICR mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2009, 20, 520-524.	2.6	69
143	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, 1182-1192.	2.6	46
144	Automated electrospray ionization FT-ICR mass spectrometry for petroleum analysis. <i>Journal of the American Society for Mass Spectrometry</i> , 2009, 20, 263-268.	2.6	42

#	ARTICLE	IF	PR CITATIONS
145	A robust two-dimensional separation for top-down tandem mass spectrometry of the low-mass proteome. <i>Journal of the American Society for Mass Spectrometry</i> , 2009, 20, 2183-2191.	2.6	94
146	Effect of Thermal Treatment on Acidic Organic Species from Athabasca Bitumen Heavy Vacuum Gas Oil, Analyzed by Negative-Ion Electrospray Fourier Transform Ion Cyclotron Resonance (FT-ICR) Mass Spectrometry. <i>Energy & Fuels</i> , 2009, 23, 314-319.	5.2	63
147	Sequential Proteolysis and High-Field FTICR MS To Determine Disulfide Connectivity and 4-Maleimide TEMPO Spin-Label Location in L126C GM2 Activator Protein. <i>Analytical Chemistry</i> , 2009, 81, 7611-7617.	6.5	9
148	Combining Bottom-Up and Top-Down Mass Spectrometric Strategies for De Novo Sequencing of the Crustacean Hyperglycemic Hormone from <i>Cancer borealis</i> . <i>Analytical Chemistry</i> , 2009, 81, 240-247.	6.5	31
149	Mapping of the Allosteric Network in the Regulation of \pm -Isopropylmalate Synthase from <i>Mycobacterium tuberculosis</i> by the Feedback Inhibitor Leucine: Solution-Phase H/D Exchange Monitored by FT-ICR Mass Spectrometry. <i>Biochemistry</i> , 2009, 48, 7457-7464.	2.4	40
150	Petroleum Crude Oil Characterization by IMS-MS and FTICR MS. <i>Analytical Chemistry</i> , 2009, 81, 9941-9947.	6.5	171
151	Identification of Vanadyl Porphyrins in a Heavy Crude Oil and Raw Asphaltene by Atmospheric Pressure Photoionization Fourier Transform Ion Cyclotron Resonance (FT-ICR) Mass Spectrometry. <i>Energy & Fuels</i> , 2009, 23, 2122-2128.	5.2	190
152	Chemical Speciation of Calcium and Sodium Naphthenate Deposits by Electrospray Ionization FT-ICR Mass Spectrometry. <i>Energy & Fuels</i> , 2009, 23, 349-355.	5.2	80
153	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, 1423-1429.	1.5	9
154	Naphthenic acids as indicators of crude oil biodegradation in soil, based on semi-quantitative electrospray ionization Fourier transform ion cyclotron resonance mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2008, 22, 3968-3976.	1.5	64
155	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, 762-771.	2.6	36
156	High-Resolution Mass Spectrometers. <i>Annual Review of Analytical Chemistry</i> , 2008, 1, 579-599.	7.0	333
157	Characterization of Acidic Species in Athabasca Bitumen and Bitumen Heavy Vacuum Gas Oil by Negative-Ion ESI FT-ICR MS with and without Acid Ion Exchange Resin Prefractionation. <i>Energy & Fuels</i> , 2008, 22, 2372-2378.	5.2	85
158	Crude Oil Polar Chemical Composition Derived from FT-ICR Mass Spectrometry Accounts for Asphaltene Inhibitor Specificity. <i>Energy & Fuels</i> , 2008, 22, 3112-3117.	5.2	80
159	Specific electrochemical iodination of horse heart myoglobin at tyrosine 103 as determined by Fourier transform ion cyclotron resonance mass spectrometry. <i>Archives of Biochemistry and Biophysics</i> , 2008, 474, 1-7.	2.9	21
160	Contrasting Perspective on Asphaltene Molecular Weight. This Comment vs the Overview of A. A. Herod, K. D. Bartle, and R. Kandiyoti. <i>Energy & Fuels</i> , 2008, 22, 1765-1773.	5.2	162
161	Automated Liquid Injection Field Desorption/Ionization for Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. <i>Analytical Chemistry</i> , 2008, 80, 7379-7382.	6.5	29
162	High-Performance Mass Spectrometry: Fourier Transform Ion Cyclotron Resonance at 14.5 Tesla. <i>Analytical Chemistry</i> , 2008, 80, 3985-3990.	6.5	189

#	ARTICLE	IF	PR CITATIONS
163	Characterization of Athabasca Bitumen Heavy Vacuum Gas Oil Distillation Cuts by Negative/Positive Electrospray Ionization and Automated Liquid Injection Field Desorption Ionization Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. <i>Energy & Fuels</i> , 2008, 22, 3118-3125.	5.2	87
164	Enhanced Digestion Efficiency, Peptide Ionization Efficiency, and Sequence Resolution for Protein Hydrogen/Deuterium Exchange Monitored by Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. <i>Analytical Chemistry</i> , 2008, 80, 9034-9041.	6.5	88
165	Petroleomics: Chemistry of the underworld. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 18090-18095.	7.6	628
166	Compositional Characterization of Bitumen/Water Emulsion Films by Negative- and Positive-Ion Electrospray Ionization and Field Desorption/Ionization Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. <i>Energy & Fuels</i> , 2007, 21, 963-972.	5.2	112
167	Identification of Water-Soluble Heavy Crude Oil Organic-Acids, Bases, and Neutrals by Electrospray Ionization and Field Desorption Ionization Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. <i>Environmental Science & Technology</i> , 2007, 41, 2696-2702.	11.1	126
168	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.	5.2	184
169	Heat-Exchanger Deposits in an Inverted Steam-Assisted Gravity Drainage Operation. Part 2. Organic Acid Analysis by Electrospray Ionization Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. <i>Energy & Fuels</i> , 2007, 21, 185-194.	5.2	38
170	Detailed Elemental Compositions of Emulsion Interfacial Material versus Parent Oil for Nine Geographically Distinct Light, Medium, and Heavy Crude Oils, Detected by Negative- and Positive-Ion Electrospray Ionization Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. <i>Energy & Fuels</i> , 2007, 21, 973-981.	5.2	82
171	Ion Activation in Electron Capture Dissociation To Distinguish between N-Terminal and C-Terminal Product Ions. <i>Analytical Chemistry</i> , 2007, 79, 7596-7602.	6.5	67
172	Self-Association of Organic Acids in Petroleum and Canadian Bitumen Characterized by Low- and High-Resolution Mass Spectrometry. <i>Energy & Fuels</i> , 2007, 21, 1309-1316.	5.2	56
173	Molecular characterization of dissolved organic matter in a North Brazilian mangrove porewater and mangrove-fringed estuaries by ultrahigh resolution Fourier Transform-Ion Cyclotron Resonance mass spectrometry and excitation/emission spectroscopy. <i>Marine Chemistry</i> , 2007, 105, 15-29.	2.3	139
174	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, 1265-1273.	2.6	118
175	Identification of single and double sites of phosphorylation by ECD FT-ICR/MS in peptides related to the phosphorylation site domain of the myristoylated alanine-rich c kinase protein. <i>Journal of the American Society for Mass Spectrometry</i> , 2007, 18, 2137-2145.	2.6	12
176	Analysis of O-glycan heterogeneity in IgA1 myeloma proteins by Fourier transform ion cyclotron resonance mass spectrometry: implications for IgA nephropathy. <i>Analytical and Bioanalytical Chemistry</i> , 2007, 389, 1397-1407.	3.5	89
177	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, 1682-1689.	2.6	110
178	Probing Protein Ligand Interactions by Automated Hydrogen/Deuterium Exchange Mass Spectrometry. <i>Analytical Chemistry</i> , 2006, 78, 1005-1014.	6.5	301
179	Characterization of Compositional Changes in Vacuum Gas Oil Distillation Cuts by Electrospray Ionization Fourier Transform Ion Cyclotron Resonance (FT-ICR) Mass Spectrometry. <i>Energy & Fuels</i> , 2006, 20, 1664-1673.	5.2	85
180	Mass Spectral Analysis of Asphaltenes. II. Detailed Compositional Comparison of Asphaltenes Deposit to Its Crude Oil Counterpart for Two Geographically Different Crude Oils by ESI FT-ICR MS. <i>Energy & Fuels</i> , 2006, 20, 1973-1979.	5.2	157

#	ARTICLE	IF	PR CITATIONS
181	Mass Spectral Analysis of Asphaltenes. I. Compositional Differences between Pressure-Drop and Solvent-Drop Asphaltenes Determined by Electrospray Ionization Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. <i>Energy & Fuels</i> , 2006, 20, 1965-1972.	5.2	137
182	Atmospheric Pressure Photoionization Fourier Transform Ion Cyclotron Resonance Mass Spectrometry for Complex Mixture Analysis. <i>Analytical Chemistry</i> , 2006, 78, 5906-5912.	6.5	266
183	Use of Saturates/Aromatics/Resins/Asphaltenes (SARA) Fractionation To Determine Matrix Effects in Crude Oil Analysis by Electrospray Ionization Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. <i>Energy & Fuels</i> , 2006, 20, 668-672.	5.2	135
184	Oil Reservoir Characterization via Crude Oil Analysis by Downhole Fluid Analysis in Oil Wells with Visible-Near-Infrared Spectroscopy and by Laboratory Analysis with Electrospray Ionization Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. <i>Energy & Fuels</i> , 2006, 20, 2448-2456.	5.2	39
185	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.	1.5	7
186	De Novo Sequencing and Disulfide Mapping of a Bromotryptophan-Containing Conotoxin by Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. <i>Analytical Chemistry</i> , 2006, 78, 8082-8088.	6.5	49
187	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.	5.2	78
188	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.	5.2	57
189	Structural Characterization and Interfacial Behavior of Acidic Compounds Extracted from a North Sea Oil. <i>Energy & Fuels</i> , 2006, 20, 1980-1987.	5.2	87
190	Structural characterization of an unusually stable cyclic peptide, kalata B2 from <i>Oldenlandia affinis</i> . <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2006, 1764, 1568-1576.	2.1	36
191	Identification of hydrotreatment-resistant heteroatomic species in a crude oil distillation cut by electrospray ionization FT-ICR mass spectrometry. <i>Fuel</i> , 2006, 85, 2071-2080.	7.5	74
192	Truly exact mass: Elemental composition can be determined uniquely from molecular mass measurement at ± 0.1 mDa accuracy for molecules up to ~ 4500 Da. <i>International Journal of Mass Spectrometry</i> , 2006, 251, 260-265.	1.6	155
193	Charge location directs electron capture dissociation of peptide dications. <i>Journal of the American Society for Mass Spectrometry</i> , 2006, 17, 1704-1711.	2.6	33
194	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.	1.6	35
195	Interaction of packaging motor with the polymerase complex of dsRNA bacteriophage. <i>Virology</i> , 2006, 351, 73-79.	2.3	32
196	Characterization of the Capsid Protein Glycosylation of Adeno-Associated Virus Type 2 by High-Resolution Mass Spectrometry. <i>Journal of Virology</i> , 2006, 80, 6171-6176.	3.7	36
197	Trimeric, Cyclic Dimethyltin-Containing Tungstophosphate $[(\text{Sn}(\text{CH}_3)_2)(\text{Sn}(\text{CH}_3)_2\text{O})(\text{A-PW}_9\text{O}_{34})]_3$. <i>Journal of Cluster Science</i> , 2006, 18, 173-191.	3.0	21
198	Assigning product ions from complex MS/MS spectra: The importance of mass uncertainty and resolving power. <i>Journal of the American Society for Mass Spectrometry</i> , 2005, 16, 183-198.	2.6	66

#	ARTICLE	IF	PR CITATIONS
199	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, 752-762.	2.6	61
200	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, 1060-1066.	2.6	32
201	ESI FT-ICR mass spectral analysis of coal liquefaction products. <i>Fuel</i> , 2005, 84, 1790-1797.	7.5	71
202	Functional visualization of viral molecular motor by hydrogen-deuterium exchange reveals transient states. <i>Nature Structural and Molecular Biology</i> , 2005, 12, 460-466.	8.7	58
203	The role of electron capture dissociation in biomolecular analysis. <i>Mass Spectrometry Reviews</i> , 2005, 24, 201-222.	6.9	471
204	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.	1.5	297
205	Identifying bryostatins and potential precursors from the bryozoan <i>Bugula neritina</i> . <i>Natural Product Research</i> , 2005, 19, 467-491.	2.0	18
206	Determination of Aberrant O-Glycosylation in the IgA1 Hinge Region by Electron Capture Dissociation Fourier Transform-Ion Cyclotron Resonance Mass Spectrometry. <i>Journal of Biological Chemistry</i> , 2005, 280, 19136-19145.	2.2	129
207	Combined Top-Down and Bottom-Up Mass Spectrometric Approach to Characterization of Biomarkers for Renal Disease. <i>Analytical Chemistry</i> , 2005, 77, 7163-7171.	6.5	92
208	Speciation of Aromatic Compounds in Petroleum Refinery Streams by Continuous Flow Field Desorption Ionization FT-ICR Mass Spectrometry. <i>Energy & Fuels</i> , 2005, 19, 1566-1573.	5.2	71
209	Multicomponent Internal Recalibration of an LC-FTICR-MS Analysis Employing a Partially Characterized Complex Peptide Mixture: A Systematic and Random Errors. <i>Analytical Chemistry</i> , 2005, 77, 7246-7254.	6.5	24
210	Comparative Compositional Analysis of Untreated and Hydrotreated Oil by Electrospray Ionization Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. <i>Energy & Fuels</i> , 2005, 19, 1072-1077.	5.2	38
211	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, 1317-1324.	6.5	73
212	Microbial alteration of the acidic and neutral polar NSO compounds revealed by Fourier transform ion cyclotron resonance mass spectrometry. <i>Organic Geochemistry</i> , 2005, 36, 1117-1134.	1.9	214
213	Accurate mass measurement: taking full advantage of nature's isotopic complexity. <i>Physica B: Condensed Matter</i> , 2004, 346-347, 503-508.	2.8	10
214	Protein kinase A phosphorylation characterized by tandem Fourier transform ion cyclotron resonance mass spectrometry. <i>Proteomics</i> , 2004, 4, 970-981.	3.1	79
215	Continuous-flow sample introduction for field desorption/ionization mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2004, 18, 1641-1644.	1.5	34
216	Electron capture dissociation Fourier transform ion cyclotron resonance mass spectrometry of cyclodepsipeptides, branched peptides, and μ -peptides. <i>International Journal of Mass Spectrometry</i> , 2004, 234, 23-35.	1.6	28

#	ARTICLE	IF	PR CITATIONS
217	Construction of a hybrid quadrupole/fourier transform ion cyclotron resonance mass spectrometer for versatile MS/MS above 10 kDa. Journal of the American Society for Mass Spectrometry, 2004, 15, 116-121. Wave length resolved laser-induced fluorescence emission of $\langle \text{mml:math altimg="si16.gif" display="inline" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/co$	2.6	108
218	Theoretical and Experimental Prospects for Protein Identification Based Solely on Accurate Mass Measurement. Journal of Proteome Research, 2004, 3, 61-67.	2.8	15
219	Compositional Determination of Acidic Species in Illinois No. 6 Coal Extracts by Electrospray Ionization Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. Energy & Fuels, 2004, 18, 1424-1428.	3.5	76
220	Broadband Phase Correction of FT-ICR Mass Spectra via Simultaneous Excitation and Detection. Analytical Chemistry, 2004, 76, 5756-5761.	5.2	70
221	Characterization of Vegetable Oils: A Detailed Compositional Fingerprints Derived from Electrospray Ionization Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. Journal of Agricultural and Food Chemistry, 2004, 52, 5322-5328.	6.5	61
222	Petroleomics: The Next Grand Challenge for Chemical Analysis. Accounts of Chemical Research, 2004, 37, 53-59.	6.0	110
223	Time resolved laser-induced fluorescence of electrosprayed ions confined in a linear quadrupole trap. Review of Scientific Instruments, 2004, 75, 4511-4515.	17.1	750
224	Acidic and neutral polar NSO compounds in Smackover oils of different thermal maturity revealed by electrospray high field Fourier transform ion cyclotron resonance mass spectrometry. Organic Geochemistry, 2004, 35, 863-880.	1.5	29
225	Two- and Three-Dimensional van Krevelen Diagrams: A Graphical Analysis Complementary to the Kendrick Mass Plot for Sorting Elemental Compositions of Complex Organic Mixtures Based on Ultrahigh-Resolution Broadband Fourier Transform Ion Cyclotron Resonance Mass Measurements. Analytical Chemistry, 2004, 76, 2511-2516.	1.9	178
226	Electron capture dissociation and infrared multiphoton dissociation of oligodeoxynucleotide dications. Journal of the American Society for Mass Spectrometry, 2003, 14, 23-41.	6.5	266
227	An antibiotic linked to peptides and proteins is released by electron capture dissociation fourier transform ion cyclotron resonance mass spectrometry. Journal of the American Society for Mass Spectrometry, 2003, 14, 302-310.	2.6	79
228	Secondary fragmentation of linear peptides in electron capture dissociation. International Journal of Mass Spectrometry, 2003, 228, 723-728.	2.6	18
229	Resolution of 10 ⁴ Compositionally Distinct Components in Polar Coal Extracts by Negative-Ion Electrospray Ionization Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. Energy & Fuels, 2003, 17, 946-953.	1.6	81
230	Photochemically Generated Polyacrylonitrile-Silica Nanocomposites: Optimized Fabrication and Characterization. Chemistry of Materials, 2003, 15, 1289-1295.	5.2	107
231	Liquid Chromatography-Fourier Transform Ion Cyclotron Resonance Mass Spectrometric Characterization of Protein Kinase C Phosphorylation. Journal of Proteome Research, 2003, 2, 373-382.	6.7	7
232	Structural Analysis of 2D-Gel-Separated Glycoproteins from Human Cerebrospinal Fluid by Tandem High-Resolution Mass Spectrometry. Journal of Proteome Research, 2003, 2, 581-588.	3.5	44
233	Electrospray Ionization Fourier Transform Ion Cyclotron Resonance Mass Spectrometric Analysis of Metal-Ion Selected Dynamic Protein Libraries. Journal of the American Chemical Society, 2003, 125, 5331-5339.	3.5	34
234		15.0	36

#	ARTICLE	IF	PR CITATIONS
235	Identification of Novel Interactions in HIV-1 Capsid Protein Assembly by High-resolution Mass Spectrometry. <i>Journal of Molecular Biology</i> , 2003, 325, 759-772.	4.2	198
236	Exact Masses and Chemical Formulas of Individual Suwannee River Fulvic Acids from Ultrahigh Resolution Electrospray Ionization Fourier Transform Ion Cyclotron Resonance Mass Spectra. <i>Analytical Chemistry</i> , 2003, 75, 1275-1284.	6.5	596
237	Letter: The Diagnostic Value of Amino Acid Side-Chain Losses in Electron Capture Dissociation of Polypeptides. Comment on: "Can the (M+X) Region in Electron Capture Dissociation Provide Reliable Information on Amino Acid Composition of Polypeptides?". <i>Eur. J. Mass Spectrom.</i> 8, 461-469 (2002). <i>European Journal of Mass Spectrometry</i> , 2003, 9, 221-222.	0.9	37
238	Resolution of Individual Component Fluorescence Lifetimes from a Mixture of Trapped Ions by Laser-Induced Fluorescence/Ion Cyclotron Resonance. <i>Journal of Physical Chemistry A</i> , 2002, 106, 10033-10036.	2.5	17
239	Resolution of 11,000 Compositionally Distinct Components in a Single Electrospray Ionization Fourier Transform Ion Cyclotron Resonance Mass Spectrum of Crude Oil. <i>Analytical Chemistry</i> , 2002, 74, 4145-4149.	6.5	388
240	Ionization and Fragmentation of Humic Substances in Electrospray Ionization Fourier Transform-Ion Cyclotron Resonance Mass Spectrometry. <i>Analytical Chemistry</i> , 2002, 74, 4397-4409.	6.5	286
241	Identification of acidic NSO compounds in crude oils of different geochemical origins by negative ion electrospray Fourier transform ion cyclotron resonance mass spectrometry. <i>Organic Geochemistry</i> , 2002, 33, 743-759.	1.9	305
242	Fourier transform ion cyclotron resonance detection: principles and experimental configurations. <i>International Journal of Mass Spectrometry</i> , 2002, 215, 59-75.	1.6	174
243	Characterization of amino acid side chain losses in electron capture dissociation. <i>Journal of the American Society for Mass Spectrometry</i> , 2002, 13, 241-249.	2.6	147
244	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, 1304-1312.	2.6	154
245	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.	3.7	49
246	Resolution and Identification of Elemental Compositions for More than 3000 Crude Acids in Heavy Petroleum by Negative-Ion Microelectrospray High-Field Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. <i>Energy & Fuels</i> , 2001, 15, 1505-1511.	5.2	403
247	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.	1.6	100
248	Electron Capture Dissociation and Infrared Multiphoton Dissociation MS/MS of an N-Glycosylated Tryptic Peptide To Yield Complementary Sequence Information. <i>Analytical Chemistry</i> , 2001, 73, 4530-4536.	6.5	370
249	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.	5.2	322
250	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.	5.2	182
251	High-Sensitivity Electron Capture Dissociation Tandem FTICR Mass Spectrometry of Microelectrosprayed Peptides. <i>Analytical Chemistry</i> , 2001, 73, 3605-3610.	6.5	74
252	Baseline Mass Resolution of Peptide Isobars: A Record for Molecular Mass Resolution. <i>Analytical Chemistry</i> , 2001, 73, 647-650.	6.5	103

#	ARTICLE	IF	PR CITATIONS
253	Kendrick Mass Defect Spectrum: A Compact Visual Analysis for Ultrahigh-Resolution Broadband Mass Spectra. <i>Analytical Chemistry</i> , 2001, 73, 4676-4681.	6.5	790
254	Noise analysis for 2D tandem Fourier transform ion cyclotron resonance mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2001, 210-211, 101-111.	1.6	27
255	Gas-phase hydrogen/deuterium exchange of positively charged mononucleotides by use of Fourier-transform ion cyclotron resonance mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2001, 12, 268-277.	2.6	49
256	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.	1.5	27
257	Direct optical spectroscopy of gas-phase molecular ions trapped and mass-selected by ion cyclotron resonance: laser-induced fluorescence excitation spectrum of hexafluorobenzene (C ₆ F ₆ ⁺). <i>Chemical Physics Letters</i> , 2001, 334, 69-75.	2.8	34
258	Milestones in fourier transform ion cyclotron resonance mass spectrometry technique development. <i>International Journal of Mass Spectrometry</i> , 2000, 200, 331-356.	1.6	277
259	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.	1.6	176
260	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, 835-840.	2.6	36
261	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, 1023-1026.	2.6	15
262	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, 120-126.	2.6	62
263	Complete Compositional Monitoring of the Weathering of Transportation Fuels Based on Elemental Compositions from Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. <i>Environmental Science & Technology</i> , 2000, 34, 1671-1678.	11.1	31
264	Theoretical Maximal Precision for Mass-to-Charge Ratio, Amplitude, and Width Measurements in Ion-Counting Mass Analyzers. <i>Analytical Chemistry</i> , 2000, 72, 2256-2260.	6.5	18
265	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.	1.6	126
266	Fourier transform ion cyclotron resonance mass spectrometric detection of small Ca ²⁺ -induced conformational changes in the regulatory domain of human cardiac troponin C. <i>Journal of the American Society for Mass Spectrometry</i> , 1999, 10, 703-710.	2.6	32
267	Matrix-shimmed ion cyclotron resonance ion trap simultaneously optimized for excitation, detection, quadrupolar axialization, and trapping. <i>Journal of the American Society for Mass Spectrometry</i> , 1999, 10, 759-769.	2.6	25
268	Self-chemical ionization of diethylzinc. , 1999, 13, 1622-1625.		2
269	Gas phase activation energy for unimolecular dissociation of biomolecular ions determined by Focused Radiation for Gaseous Multiphoton Energy Transfer (FRAGMENT). , 1999, 13, 1639-1642.		40
270	Digital Quadrature Heterodyne Detection for High-Resolution Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. <i>Analytical Chemistry</i> , 1999, 71, 4758-4763.	6.5	15

#	ARTICLE	IF	PR CITATIONS
271	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.	2.6	37
272	Fourier transform ion cyclotron resonance mass spectrometry: A primer. <i>Mass Spectrometry Reviews</i> , 1998, 17, 1-35.	6.9	1,793
273	A universal algorithm for fast and automated charge state deconvolution of electrospray mass-to-charge ratio spectra. <i>Journal of the American Society for Mass Spectrometry</i> , 1998, 9, 225-233.	2.6	495
274	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, 333-340.	2.6	198
275	Laser-induced fluorescence for ion tomography in a Penning trap. <i>Journal of the American Society for Mass Spectrometry</i> , 1998, 9, 925-930.	2.6	7
276	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.	2.6	58
277	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.	6.5	89
278	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, 3220-3226.	6.5	41
279	Photodissociation of Gas-Phase Polycyclic Aromatic Hydrocarbon Cations. <i>Journal of Physical Chemistry A</i> , 1998, 102, 3498-3504.	2.5	134
280	Radiatively Self-Cooled Penning-Trapped Electrons: A New Way To Make Gas-Phase Negative Ions from Neutrals of Low Electron Affinity. <i>Journal of the American Chemical Society</i> , 1997, 119, 2267-2272.	15.0	8
281	Linear Prediction Cholesky Decomposition vs Fourier Transform Spectral Analysis for Ion Cyclotron Resonance Mass Spectrometry. <i>Analytical Chemistry</i> , 1997, 69, 1156-1162.	6.5	20
282	Protein Molecular Mass to 1 Da by ¹³ C, ¹⁵ N Double-Depletion and FT-ICR Mass Spectrometry. <i>Journal of the American Chemical Society</i> , 1997, 119, 433-434.	15.0	113
283	Linearity and quadrupolarity of tetragonal and cylindrical penning traps of arbitrary length-to-width ratio. <i>Journal of the American Society for Mass Spectrometry</i> , 1997, 8, 283-293.	2.6	19
284	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.	2.6	445
285	A combined linear ion trap for mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 1997, 8, 962-969.	2.6	25
286	Enhancement of the effective resolution of mass spectra of high-mass biomolecules by maximum entropy-based deconvolution to eliminate the isotopic natural abundance distribution. <i>Journal of the American Society for Mass Spectrometry</i> , 1997, 8, 659-670.	2.6	78
287	Sympathetic cooling of trapped negative ions by self-cooled electrons in a fourier transform ion cyclotron resonance mass spectrometer. <i>Journal of the American Society for Mass Spectrometry</i> , 1997, 8, 793-800.	2.6	17
288	Effect of ion-neutral collision mechanism on the trapped-ion equation of motion: a new mass spectral line shape for high-mass trapped ions. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1997, 167-168, 185-193.	1.6	36

#	ARTICLE	IF	PR CITATIONS
289	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.	1.6	14
290	Human recombinant [C22A] FK506-binding protein amide hydrogen exchange rates from mass spectrometry match and extend those from NMR. <i>Protein Science</i> , 1997, 6, 2203-2217.	6.0	79
291	Resolution and Chemical Formula Identification of Aromatic Hydrocarbons and Aromatic Compounds Containing Sulfur, Nitrogen, or Oxygen in Petroleum Distillates and Refinery Streams. <i>Analytical Chemistry</i> , 1996, 68, 46-71.	6.5	135
292	Ion Cyclotron Resonance and Nuclear Magnetic Resonance Spectroscopies: Magnetic Partners for Elucidation of Molecular Structure and Reactivity. <i>Accounts of Chemical Research</i> , 1996, 29, 307-316.	17.1	36
293	Mass Spectrometry: A Recent Advances and Future Directions. <i>The Journal of Physical Chemistry</i> , 1996, 100, 12897-12910.	3.1	77
294	The Early Development of Fourier Transform Ion Cyclotron Resonance (FT-ICR) Spectroscopy. <i>Journal of Mass Spectrometry</i> , 1996, 31, 581-585.	1.7	86
295	Advantages of High Magnetic Field for Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 1996, 10, 1819-1823.	1.5	146
296	Electrospray Ionization Fourier Transform Ion Cyclotron Resonance at 9.4 T. , 1996, 10, 1824-1828.		201
297	A High-performance Modular Data System for Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. , 1996, 10, 1839-1844.		250
298	An External Source 7 T Fourier Transform Ion Cyclotron Resonance Mass Spectrometer with Electrostatic Ion Guide. <i>Rapid Communications in Mass Spectrometry</i> , 1996, 10, 1845-1849.	1.5	17
299	Laser-induced Fluorescence of Ba ⁺ Ions Trapped and Mass-selected in a Fourier Transform Ion Cyclotron Resonance Mass Spectrometer. , 1996, 10, 1850-1854.		15
300	Determination of Ion Magnetron Radial Distribution in Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. , 1996, 10, 1855-1859.		8
301	Stacked-ring electrostatic ion guide. <i>Journal of the American Society for Mass Spectrometry</i> , 1996, 7, 101-106.	2.6	36
302	Stored waveform inverse Fourier transform (SWIFT) ion excitation in trapped-ion mass spectrometry: Theory and applications. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1996, 157-158, 5-37.	1.6	311
303	Fourier transform ion cyclotron resonance spectroscopy. <i>Journal of Mass Spectrometry</i> , 1996, 31, 586-587.	1.7	0
304	Frequency-sweep fourier tranform ion cyclotron resonance spectroscopy. <i>Journal of Mass Spectrometry</i> , 1996, 31, 588-589.	1.7	0
305	Ultrahigh-resolution matrix-assisted laser desorption/ionization Fourier transform ion cyclotron resonance mass spectra of peptides. <i>Journal of Mass Spectrometry</i> , 1995, 30, 825-833.	1.7	51
306	Magnitude-mode multiple-derivative spectra for resolution enhancement without loss in signal-to-noise ratio in Fourier transform spectroscopy. <i>Journal of Mass Spectrometry</i> , 1995, 30, 1237-1244.	1.7	13

#	ARTICLE	IF	PR CITATIONS
307	Linearized dipolar excitation and detection and quadrupolarized axialization in a cylindrical ion cyclotron resonance ion trap. <i>Journal of Mass Spectrometry</i> , 1995, 30, 1593-1598.	1.7	6
308	Ion trajectories in an electrostatic ion guide for external ion source fourier transform ion cyclotron resonance mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 1995, 6, 936-946.	2.6	9
309	Ion traps for Fourier transform ion cyclotron resonance mass spectrometry: principles and design of geometric and electric configurations. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1995, 146-147, 261-296.	1.6	117
310	Filar ion cyclotron resonance ion trap: Spatially multiplexed dipolar and quadrupolar excitation for simultaneous ion axialization and detection. <i>Review of Scientific Instruments</i> , 1995, 66, 63-66.	1.5	7
311	Generation and detection of coherent magnetron motion in Fourier transform ion cyclotron resonance mass spectrometry. <i>Journal of Chemical Physics</i> , 1994, 100, 2258-2266.	2.8	17
312	Internal ion impact ionization for Fourier-transform ion cyclotron resonance. <i>Rapid Communications in Mass Spectrometry</i> , 1994, 8, 14-21.	1.5	0
313	Wide-mass-range axialization for high-resolution Fourier-transform ion cyclotron resonance mass spectrometry of externally generated ions. <i>Rapid Communications in Mass Spectrometry</i> , 1994, 8, 615-620.	1.5	39
314	A two-electrode ion trap for Fourier transform ion cyclotron resonance mass spectrometry. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1994, 137, 9-30.	1.6	16
315	Linear excitation and detection in Fourier transform ion cyclotron resonance mass spectrometry. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1994, 139, 169-189.	1.6	30
316	Equilibrium space charge distribution in a quadrupole ion trap. <i>Journal of the American Society for Mass Spectrometry</i> , 1994, 5, 64-71.	2.6	68
317	Inert gas purgebox for Fourier transform ion cyclotron resonance mass spectrometry of air-sensitive solids. <i>Review of Scientific Instruments</i> , 1994, 65, 612-616.	1.5	4
318	Shrink-wrapping an ion cloud for high-performance Fourier transform ion cyclotron resonance mass spectrometry. <i>Chemical Reviews</i> , 1994, 94, 2161-2182.	52.7	118
319	Axial and radial ion cloud compression: coupling of magnetron and cyclotron motion to axial motion in a segmented cubic Fourier transform ion cyclotron resonance ion trap. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1993, 124, 53-67.	1.6	33
320	Masses of stable neon isotopes determined at parts per billion precision by Fourier transform ion cyclotron resonance mass spectrometry. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1993, 128, 47-60.	1.6	27
321	Harmonic enhancement of a detected ion cyclotron resonance signal by use of segmented detection electrodes. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1993, 123, 41-47.	1.6	19
322	Excitation modes for fourier transform-ion cyclotron resonance mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 1993, 4, 433-452.	2.6	100
323	High-frequency fourier transform ion cyclotron resonance mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 1993, 4, 177-181.	2.6	9
324	Analysis and elimination of systematic errors originating from coulomb mutual interaction and image charge in Fourier transform ion cyclotron resonance precise mass difference measurements. <i>Journal of the American Society for Mass Spectrometry</i> , 1993, 4, 855-868.	2.6	48

#	ARTICLE	IF	PR CITATIONS
325	Multiply pulsed collision gas for ion axialization in fourier-transform ion cyclotron resonance mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 1993, 7, 857-860.	1.5	30
326	An electrostatic ion guide for efficient transmission of low energy externally formed ions into a Fourier transform ion cyclotron resonance mass spectrometer. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1993, 125, 135-143.	1.6	30
327	Stored waveform inverse Fourier transform axial excitation/ejection for quadrupole ion trap mass spectrometry. <i>Analytical Chemistry</i> , 1993, 65, 1288-1294.	6.5	86
328	Two-dimensional Fourier transform ion cyclotron resonance mass spectrometry/mass spectrometry with stored-waveform ion radius modulation. <i>Journal of the American Chemical Society</i> , 1993, 115, 7854-7861.	15.0	54
329	Experimental determination of the number of trapped ions, detection limit, and dynamic range in Fourier transform ion cyclotron resonance mass spectrometry. <i>Analytical Chemistry</i> , 1993, 65, 135-140.	6.5	98
330	Bloch equations applied to ion cyclotron resonance spectroscopy: Broadband interconversion between magnetron and cyclotron motion for ion axialization. <i>Journal of Chemical Physics</i> , 1993, 98, 4486-4493.	2.8	45
331	Dyanmic ion trapping for Fourier-transform ion cyclotron resonance mass spectrometry: Simultaneous positive- and negative-ion detection. <i>Rapid Communications in Mass Spectrometry</i> , 1992, 6, 166-172.	1.5	40
332	Experimental evaluation of a hyperbolic ion trap for fourier transform ion cyclotron resonance mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 1992, 3, 188-197.	2.6	33
333	Quadrupolar excitation and collisional cooling for axialization and high pressure trapping of ions in Fourier transform ion cyclotron resonance mass spectrometry. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1992, 120, 71-83.	1.6	145
334	Fourier transform ion cyclotron resonance mass spectrometry: technique developments. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1992, 118-119, 37-70.	1.6	133
335	Structural investigation of helices II, III, and IV ofB. megaterium 5S ribosomal RNA by molecular dynamics calculations. <i>Biopolymers</i> , 1992, 32, 1263-1270.	2.9	2
336	Circularly polarized quadrature excitation for Fourier-transform ion cyclotron resonance mass spectrometry. <i>Chemical Physics Letters</i> , 1992, 198, 143-148.	2.8	14
337	Comprehensive theory of the Fourier transform ion cyclotron resonance signal for all ion trap geometries. <i>Journal of Chemical Physics</i> , 1991, 94, 5341-5352.	2.8	89
338	Pure absorption-mode spectra from Bayesian maximum entropy analysis of ion cyclotron resonance time-domain signals. <i>Analytical Chemistry</i> , 1991, 63, 551-560.	6.5	16
339	General theory of excitation in ion cyclotron resonance mass spectrometry. <i>Analytical Chemistry</i> , 1991, 63, 2057-2061.	6.5	63
340	Observation of the doubly charged, gas-phase fullerene anions C602- and C702-. <i>Journal of the American Chemical Society</i> , 1991, 113, 6795-6798.	15.0	159
341	Fourier transform ion cyclotron resonance mass spectrometry: the teenage years. <i>Analytical Chemistry</i> , 1991, 63, 215A-229A.	6.5	226
342	Can Fourier transform mass spectral resolution be improved by detection at harmonic multiples of the fundamental ion cyclotron orbital frequency?. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1991, 107, 49-81.	1.6	38

#	ARTICLE	IF	PR CITATIONS
343	Ion-locked cyclotron resonance: a means for instantaneously changing ion cyclotron orbital radius. <i>Chemical Physics Letters</i> , 1991, 181, 168-174.	2.8	7
344	Ammonia laser desorption/chemical ionization with ammonium bromide: Fourier transform ion cyclotron resonance mass spectrometry of aromatic hydrocarbons. <i>Journal of the American Society for Mass Spectrometry</i> , 1991, 2, 299-304.	2.6	5
345	Pulse timing and optical interface between a neodymium: Yttrium aluminum garnet laser and a Fourier transform ion cyclotron resonance mass spectrometer. <i>Rapid Communications in Mass Spectrometry</i> , 1991, 5, 132-136.	1.5	6
346	Fast neutral beam ion source coupled to a Fourier transform ion cyclotron resonance mass spectrometer. <i>Review of Scientific Instruments</i> , 1991, 62, 2612-2617.	1.5	9
347	Laboratory-frame and rotating-frame ion trajectories in ion cyclotron resonance mass spectrometry. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1990, 100, 323-346.	1.6	54
348	Theory of ion cyclotron resonance mass spectrometry: resonant excitation and radial ejection in orthorhombic and cylindrical ion traps. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1990, 100, 347-379.	1.6	84
349	Bayesian versus Fourier spectral analysis of ion cyclotron resonance time-domain signals. <i>Analytical Chemistry</i> , 1990, 62, 201-208.	6.5	20
350	Simple and accurate determination of ion translational energy in ion cyclotron resonance mass spectroscopy. <i>Journal of the American Chemical Society</i> , 1990, 112, 1275-1277.	15.0	51
351	Elimination of z-ejection in Fourier-transform ion cyclotron resonance mass spectrometry by radio/frequency electric field shimming. <i>Analytical Chemistry</i> , 1990, 62, 515-520.	6.5	66
352	Time-Domain (Interferogram) and Frequency-Domain (Absorption-Mode and Magnitude-Mode) Noise and Precision in Fourier Transform Spectrometry. <i>Applied Spectroscopy</i> , 1990, 44, 766-775.	2.0	28
353	Effect of Sampling Rate on Fourier Transform Spectra: Oversampling is Overrated. <i>Applied Spectroscopy</i> , 1990, 44, 1111-1116.	2.0	11
354	American Society for Mass Spectrometry 37th Annual Conference on Mass Spectrometry and Allied Topics (1989). <i>Rapid Communications in Mass Spectrometry</i> , 1989, 3, 247-247.	1.5	1
355	Hartley transform ion cyclotron resonance mass spectrometry. <i>Analytical Chemistry</i> , 1989, 61, 428-431.	6.5	12
356	A "screened" electrostatic ion trap for enhanced mass resolution, mass accuracy, reproducibility, and upper mass limit in Fourier-transform ion cyclotron resonance mass spectrometry. <i>Analytical Chemistry</i> , 1989, 61, 1288-1293.	6.5	112
357	Dispersion vs. absorption (DISPA): A magic circle for spectroscopic line shape analysis. <i>Chemometrics and Intelligent Laboratory Systems</i> , 1988, 3, 261-275.	3.7	20
358	High-resolution multiple-ion simultaneous monitoring by means of multiple-foldover Fourier transform ion cyclotron resonance mass spectrometry. <i>Analytical Chemistry</i> , 1988, 60, 341-344.	6.5	22
359	Effects of Noise, Time-Domain Damping, Zero-Filling and the FFT Algorithm on the "Exact" Interpolation of Fast Fourier Transform Spectra. <i>Applied Spectroscopy</i> , 1988, 42, 715-721.	2.0	41
360	Dispersion versus absorption (DISPA) method for automatic phasing of fourier transform ion cyclotron resonance mass spectra. <i>Rapid Communications in Mass Spectrometry</i> , 1987, 1, 33-37.	1.5	36

#	ARTICLE	IF	PR CITATIONS
361	Effect of time-domain dynamic range on stored waveform excitation for fourier transform ion cyclotron resonance mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 1987, 1, 39-42.	1.5	17
362	Stored waveform simultaneous mass-selective ejection/excitation for Fourier transform ion cyclotron resonance mass spectrometry. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1987, 79, 115-125.	1.6	79
363	Effect of signal-to-noise ratio and number of data points upon precision in measurement of peak amplitude, position and width in fourier transform spectrometry. <i>Chemometrics and Intelligent Laboratory Systems</i> , 1986, 1, 51-58.	3.7	72
364	Coulomb broadening in Fourier transform ion cyclotron resonance mass spectrometry. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1986, 68, 287-301.	1.6	35
365	High-Speed Preparative-Scale Separation and Purification of Ribosomal 5S and 5.8S RNA'S via Sephacryl S-300 Gel Filtration Chromatography. <i>Preparative Biochemistry and Biotechnology</i> , 1986, 16, 247-258.	0.5	5
366	Clipped representations of fourier-transform ion-cyclotron resonance mass spectra. <i>Analytica Chimica Acta</i> , 1985, 178, 27-41.	5.8	16
367	Fourier transform ion cyclotron resonance mass spectrometry. <i>Accounts of Chemical Research</i> , 1985, 18, 316-322.	17.1	267
368	Tailored excitation for Fourier transform ion cyclotron mass spectrometry. <i>Journal of the American Chemical Society</i> , 1985, 107, 7893-7897.	15.0	642
369	Fourier transform ion cyclotron mass spectrometry using pseudo-random-noise excitation. <i>Chemical Physics Letters</i> , 1984, 108, 63-66.	2.8	23
370	Ion cyclotron resonance excitatio/de-excitation: A basis for Stochastic fourier transform ion cyclotron mass spectrometry. <i>Chemical Physics Letters</i> , 1984, 105, 233-236.	2.8	77
371	Theory of Fourier transform ion cyclotron resonance mass spectroscopy: Response to frequency-sweep excitation. <i>Journal of Chemical Physics</i> , 1980, 73, 1581-1590.	2.8	162
372	Relaxation and spectral line shape in Fourier transform ion resonance spectroscopy. <i>Journal of Chemical Physics</i> , 1979, 71, 4434-4444.	2.8	163
373	Convolution Fourier transform ion cyclotron resonance spectroscopy. <i>Chemical Physics Letters</i> , 1979, 63, 515-518.	2.8	32
374	Theoretical signal-to-noise ratio and mass resolution in Fourier transform ion cyclotron resonance mass spectrometry. <i>Analytical Chemistry</i> , 1979, 51, 1710-1714.	6.5	60
375	Dispersion versus absorption: spectral line shape analysis for radiofrequency and microwave spectrometry. <i>Analytical Chemistry</i> , 1978, 50, 756-763.	6.5	60
376	Theory of Fourier transform ion cyclotron resonance mass spectroscopy. I. Fundamental equations and low-pressure line shape. <i>Journal of Chemical Physics</i> , 1976, 64, 110-119.	2.8	158
377	Anisotropic reorientation and non-exponential nuclear magnetic relaxation. <i>Molecular Physics</i> , 1974, 28, 113-129.	2.4	17
378	Frequency-sweep fourier transform ion cyclotron resonance spectroscopy. <i>Chemical Physics Letters</i> , 1974, 26, 489-490.	2.8	355

#	ARTICLE	IF	PR CITATIONS
379	Fourier transform ion cyclotron resonance spectroscopy. Chemical Physics Letters, 1974, 25, 282-283.	2.8	984
380	Selective-phase Ion Cyclotron Resonance Spectroscopy. Canadian Journal of Chemistry, 1974, 52, 1997-1999.	1.6	100
381	Improved Transistorization of Varian Vâ€2100B Magnet Power Supply. Review of Scientific Instruments, 1973, 44, 918-919.	1.5	2