

Christopher L Hendrickson

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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 | Fourier transform ion cyclotron resonance mass spectrometry: a primer. <i>Mass Spectrometry Reviews</i> , 1998 , 17, 1-35 | 11 | 1537 |
| 139 | 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 |
| 138 | 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 |
| 137 | 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 |
| 136 | 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 |
| 135 | High-resolution mass spectrometers. <i>Annual Review of Analytical Chemistry</i> , 2008 , 1, 579-99 | 12.5 | 269 |
| 134 | Probing protein ligand interactions by automated hydrogen/deuterium exchange mass spectrometry. <i>Analytical Chemistry</i> , 2006 , 78, 1005-14 | 7.8 | 250 |
| 133 | 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 |
| 132 | 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 |
| 131 | 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 |
| 130 | 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 |
| 129 | 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 |
| 128 | High resolution mass spectrometry. <i>Analytical Chemistry</i> , 2012 , 84, 708-19 | 7.8 | 177 |
| 127 | High-performance mass spectrometry: Fourier transform ion cyclotron resonance at 14.5 Tesla. <i>Analytical Chemistry</i> , 2008 , 80, 3985-90 | 7.8 | 177 |
| 126 | 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 |
| 125 | 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 |
| 124 | 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 |

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| 123 | 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 |
| 122 | Fourier transform ion cyclotron resonance detection: principles and experimental configurations. <i>International Journal of Mass Spectrometry</i> , 2002 , 215, 59-75 | 1.9 | 154 |
| 121 | Petroleomics: advanced molecular probe for petroleum heavy ends. <i>Journal of Mass Spectrometry</i> , 2011 , 46, 337-43 | 2.2 | 151 |
| 120 | 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 |
| 119 | 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 |
| 118 | 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 |
| 117 | 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 |
| 116 | 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, 1628-32 | 3.5 | 133 |
| 115 | Automated broadband phase correction of Fourier transform ion cyclotron resonance mass spectra. <i>Analytical Chemistry</i> , 2010 , 82, 8807-12 | 7.8 | 131 |
| 114 | Closed network growth of fullerenes. <i>Nature Communications</i> , 2012 , 3, 855 | 17.4 | 127 |
| 113 | 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 |
| 112 | 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 |
| 111 | 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 |
| 110 | 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 |
| 109 | Scaling MS plateaus with high-resolution FT-ICRMS. <i>Analytical Chemistry</i> , 2002 , 74, 252A-259A | 7.8 | 95 |
| 108 | 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 |
| 107 | Electrically compensated Fourier transform ion cyclotron resonance cell for complex mixture mass analysis. <i>Analytical Chemistry</i> , 2011 , 83, 6907-10 | 7.8 | 94 |
| 106 | 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 |

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| 105 | 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} | 90 |
| 104 | Baseline mass resolution of peptide isobars: a record for molecular mass resolution. <i>Analytical Chemistry</i> , 2001 , 73, 647-50 | 7.8 87 |
| 103 | Electrospray ionization Fourier transform ion cyclotron resonance mass spectrometry. <i>Annual Review of Physical Chemistry</i> , 1999 , 50, 517-36 | 15.7 86 |
| 102 | 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 |
| 101 | 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 |
| 100 | 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 |
| 99 | 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 |
| 98 | 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 |
| 97 | 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 |
| 96 | 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 |
| 95 | 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 |
| 94 | High-sensitivity electron capture dissociation tandem FTICR mass spectrometry of microelectrosprayed peptides. <i>Analytical Chemistry</i> , 2001 , 73, 3605-10 | 7.8 68 |
| 93 | 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 |
| 92 | 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 |
| 91 | 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 |
| 90 | 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> , 2000 , 122, 10107-10108 | 16.4 58 |
| 89 | 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 |
| 88 | 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 |

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| 87 | 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 |
| 86 | 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 |
| 85 | Composition of explosives by electrospray ionization Fourier transform ion cyclotron resonance mass spectrometry. <i>Analytical Chemistry</i> , 2002 , 74, 1879-83 | 7.8 | 53 |
| 84 | 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 |
| 83 | 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 |
| 82 | Broadband phase correction of FT-ICR mass spectra via simultaneous excitation and detection. <i>Analytical Chemistry</i> , 2004 , 76, 5756-61 | 7.8 | 51 |
| 81 | 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 |
| 80 | 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 |
| 79 | 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 |
| 78 | 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 |
| 77 | 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 |
| 76 | 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 |
| 75 | 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 |
| 74 | 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 |
| 73 | 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 |
| 72 | 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 |
| 71 | 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 |
| 70 | Positive Ion Electrospray Ionization Suppression in Petroleum and Complex Mixtures. <i>Energy & Fuels</i> , 2018 , 32, 2901-2907 | 4.1 | 35 |

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| 69 | 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 |
| 68 | 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 |
| 67 | 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 |
| 66 | 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 | 2.5 | 33 |
| 65 | 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 |
| 64 | Structural validation of saccharomicins 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 |
| 63 | 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 |
| 62 | 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 |
| 61 | 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 |
| 60 | Continuous-flow sample introduction for field desorption/ionization mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2004 , 18, 1641-1644 | 2.2 | 31 |
| 59 | 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 |
| 58 | 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 |
| 57 | 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 |
| 56 | 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 |
| 55 | 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 |
| 54 | 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 |
| 53 | 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 |
| 52 | 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 |

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| 51 | 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 |
| 50 | 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 |
| 49 | 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 |
| 48 | 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 |
| 47 | 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 |
| 46 | 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 |
| 45 | 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 |
| 44 | Diagnosis of Hemoglobinopathy and α -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 |
| 43 | 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 |
| 42 | 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 |
| 41 | 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 | 2.8 | 16 |
| 40 | 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 |
| 39 | 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 |
| 38 | 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 |
| 37 | 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 |
| 36 | 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 |
| 35 | Wavelength resolved laser-induced fluorescence emission of . <i>Chemical Physics Letters</i> , 2004 , 394, 188-193 | | 13 |
| 34 | 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 |

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| 33 | 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 |
| 32 | 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 |
| 31 | 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 |
| 30 | 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 |
| 29 | 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 |
| 28 | 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 |
| 27 | 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 |
| 26 | 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 |
| 25 | 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 |
| 24 | 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 |
| 23 | 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 |
| 22 | 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 |
| 21 | 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 |
| 20 | 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 |
| 19 | 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 |
| 18 | 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 |
| 17 | Valence parity to distinguish cP and z ions 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 |
| 16 | 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 |

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| 15 | The Blood Proteoform Atlas: A reference map of proteoforms in human hematopoietic cells.. <i>Science</i> , 2022 , 375, 411-418 | 33.3 | 6 |
| 14 | Lessons Learned from a Decade-Long Assessment of Asphaltene by Ultrahigh-Resolution Mass Spectrometry and Implications for Complex Mixture Analysis. <i>Energy & Fuels</i> , 2021 , 35, 16335-16376 | 4.1 | 6 |
| 13 | 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 |
| 12 | Identification of Phosphorylated Human Peptides by Accurate Mass Measurement Alone. <i>International Journal of Mass Spectrometry</i> , 2011 , 308, 357-361 | 1.9 | 5 |
| 11 | 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 |
| 10 | Electrospray Ionization Fourier Transform Ion Cyclotron Resonance at 9.4 T 1996 , 10, 1824 | | 4 |
| 9 | 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 |
| 8 | Top-down proteomics-a near-future technique for clinical diagnosis?. <i>Annals of Translational Medicine</i> , 2020 , 8, 136 | 3.2 | 2 |
| 7 | 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 |
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