Kristina Hakansson

List of Publications by Year
in descending order

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91 papers	5,998 citations	93792 39 h-index	87275 74 g-index
94 all docs	94 docs citations	94 times ranked	5528 citing authors

#	Article	IF	Citations
1	Gas-Phase Hydrogen/Deuterium Scrambling in Negative-Ion Mode Tandem Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2019, 30, 855-863.	1.2	10
2	Free Radical Initiated Peptide Sequencing for Direct Site Localization of Sulfation and Phosphorylation with Negative Ion Mode Mass Spectrometry. Analytical Chemistry, 2018, 90, 9682-9686.	3.2	12
3	Corona Discharge Suppression in Negative Ion Mode Nanoelectrospray Ionization via Trifluoroethanol Addition. Analytical Chemistry, 2017, 89, 10188-10193.	3.2	26
4	Targeted Annotation of S-Sulfonylated Peptides by Selective Infrared Multiphoton Dissociation Mass Spectrometry. Analytical Chemistry, 2017, 89, 8304-8310.	3.2	9
5	Structural Basis for Cyclopropanation by a Unique Enoyl-Acyl Carrier Protein Reductase. Structure, 2015, 23, 2213-2223.	1.6	27
6	Structure of a modular polyketide synthase. Nature, 2014, 510, 512-517.	13.7	269
7	Structural rearrangements of a polyketide synthase module during its catalytic cycle. Nature, 2014, 510, 560-564.	13.7	168
8	Electron Capture Dissociation of Divalent Metal-adducted Sulfated N-Glycans Released from Bovine Thyroid Stimulating Hormone. Journal of the American Society for Mass Spectrometry, 2013, 24, 1798-1806.	1.2	14
9	Electron Detachment Dissociation of Underivatized Chloride-Adducted Oligosaccharides. Journal of the American Society for Mass Spectrometry, 2012, 23, 2031-2042.	1.2	23
10	Characterization of O-Sulfopeptides by Negative Ion Mode Tandem Mass Spectrometry: Superior Performance of Negative Ion Electron Capture Dissociation. Analytical Chemistry, 2012, 84, 6370-6377.	3.2	39
11	Electron Detachment Dissociation and Negative Ion Infrared Multiphoton Dissociation of Electrosprayed Intact Proteins. Analytical Chemistry, 2012, 84, 871-876.	3.2	12
12	Phosphate-containing Metabolite Enrichment with TiO₂Micro-tips. Bulletin of the Korean Chemical Society, 2012, 33, 2475-2476.	1.0	1
13	Determination of Phospholipid Regiochemistry by Ag(I) Adduction and Tandem Mass Spectrometry. Analytical Chemistry, 2011, 83, 1275-1283.	3.2	17
14	Meta-omic Characterization of the Marine Invertebrate Microbial Consortium That Produces the Chemotherapeutic Natural Product ET-743. ACS Chemical Biology, 2011, 6, 1244-1256.	1.6	171
15	Negative-Ion Electron Capture Dissociation: Radical-Driven Fragmentation of Charge-Increased Gaseous Peptide Anions. Journal of the American Chemical Society, 2011, 133, 16790-16793.	6.6	62
16	Chemoenzymatic Synthesis of Cryptophycin Anticancer Agents by an Ester Bond-Forming Non-ribosomal Peptide Synthetase Module. Journal of the American Chemical Society, 2011, 133, 14492-14495.	6.6	37
17	Structural Characterization of Carbohydrates by Fourier Transform Tandem Mass Spectrometry. Current Proteomics, 2011, 8, 297-308.	0.1	22
18	Electron capture dissociation of divalent metal-adducted sulfated oligosaccharides. International Journal of Mass Spectrometry, 2011, 305, 170-177.	0.7	21

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19	Acyl-CoA Subunit Selectivity in the Pikromycin Polyketide Synthase PikAIV: Steady-State Kinetics and Active-Site Occupancy Analysis by FTICR-MS. Chemistry and Biology, 2011, 18, 1075-1081.	6.2	26
20	Electron Induced Dissociation of Singly Deprotonated Peptides. Journal of the American Society for Mass Spectrometry, 2011, 22, 2209-2221.	1.2	20
21	Electron detachment dissociation of fluorescently labeled sialylated oligosaccharides. Electrophoresis, 2011, 32, 3526-3535.	1.3	13
22	Polyketide Î²-Branching in Bryostatin Biosynthesis: Identification of Surrogate Acetyl-ACP Donors for BryR, an HMG-ACP Synthase. Chemistry and Biology, 2010, 17, 1092-1100.	6.2	42
23	Conformational switch triggered by Î±-ketoglutarate in a halogenase of curacin A biosynthesis. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 14099-14104.	3.3	78
24	Polymyxin B Resistance in El Tor Vibrio cholerae Requires Lipid Acylation Catalyzed by MsbB. Journal of Bacteriology, 2010, 192, 2044-2052.	1.0	49
25	Hydrogen Tunneling in Adenosylcobalamin-Dependent Glutamate Mutase: Evidence from Intrinsic Kinetic Isotope Effects Measured by Intramolecular Competition. Biochemistry, 2010, 49, 3168-3173.	1.2	17
26	Determination of Double Bond Location in Fatty Acids by Manganese Adduction and Electron Induced Dissociation. Analytical Chemistry, 2010, 82, 6940-6946.	3.2	44
27	Electron capture dissociation of highly charged proteolytic peptides from Lys N, Lys C and Glu C digestion. Molecular BioSystems, 2010, 6, 1668.	2.9	9
28	Oxidation of Lanthionines Renders the Lantibiotic Nisin Inactive. Applied and Environmental Microbiology, 2009, 75, 1381-1387.	1.4	55
29	A Highâ€Resolution Interaction Map of Three Transcriptional Activation Domains with a Key Coactivator from Photoâ€Crossâ€Linking and Multiplexed Mass Spectrometry. Angewandte Chemie - International Edition, 2009, 48, 7021-7024.	7.2	16
30	Characterization of nucleic acid higher order structure by gasâ€phase H/D exchange in a quadrupoleâ€FTâ€ICR mass spectrometer. Biopolymers, 2009, 91, 256-264.	1.2	16
31	Metamorphic enzyme assembly in polyketide diversification. Nature, 2009, 459, 731-735.	13.7	165
32	Polyketide Decarboxylative Chain Termination Preceded by O-Sulfonation in Curacin A Biosynthesis. Journal of the American Chemical Society, 2009, 131, 16033-16035.	6.6	88
33	Characterization of Oligodeoxynucleotide Fragmentation Pathways in Infrared Multiphoton Dissociation and Electron Detachment Dissociation by Fourier Transform Ion Cyclotron Double Resonance. European Journal of Mass Spectrometry, 2009, 15, 293-304.	0.5	26
34	Tandem Mass Spectrometry of Nucleic Acids. , 2009, , 105-126.		2
35	Characterization and optimization of electron detachment dissociation Fourier transform ion cyclotron resonance mass spectrometry. International Journal of Mass Spectrometry, 2008, 276, 144-148.	0.7	21
36	Characterization of Phosphate-Containing Metabolites by Calcium Adduction and Electron Capture Dissociation. Journal of the American Society for Mass Spectrometry, 2008, 19, 799-808.	1.2	15

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37	In Vivo and In Vitro Trans-Acylation by BryP, the Putative Bryostatin Pathway Acyltransferase Derived from an Uncultured Marine Symbiont. Chemistry and Biology, 2008, 15, 1175-1186.	6.2	68
38	Comparison of the Electron Capture Dissociation Fragmentation Behavior of Doubly and Triply Protonated Peptides from Trypsin, Glu-C, and Chymotrypsin Digestion. Journal of Proteome Research, 2008, 7, 2834-2844.	1.8	25
39	A rugged free energy landscape separates multiple functional RNA folds throughout denaturation. Nucleic Acids Research, 2008, 36, 7088-7099.	6.5	73
40	Metal Oxide-Based Enrichment Combined with Gas-Phase Ion-Electron Reactions for Improved Mass Spectrometric Characterization of Protein Phosphorylation. Journal of Proteome Research, 2008, 7, 749-755.	1.8	40
41	Biosynthetic Analysis of the Petrobactin Siderophore Pathway from Bacillusanthracis. Journal of Bacteriology, 2007, 189, 1698-1710.	1.0	133
42	Crystal Structure of the ECH2 Catalytic Domain of CurF from Lyngbya majuscula. Journal of Biological Chemistry, 2007, 282, 35954-35963.	1.6	50
43	A new Î±-galactosyl-binding protein from the mushroom Lyophyllum decastes. Archives of Biochemistry and Biophysics, 2007, 467, 268-274.	1.4	17
44	GNAT-Like Strategy for Polyketide Chain Initiation. Science, 2007, 318, 970-974.	6.0	108
45	Oligonucleotide Gas-Phase Hydrogen/Deuterium Exchange with D2S in the Collision Cell of a Quadrupole-Fourier Transform Ion Cyclotron Resonance Mass Spectrometer. Analytical Chemistry, 2007, 79, 7893-7898.	3.2	12
46	Electron Capture Dissociation of Oligosaccharides Ionized with Alkali, Alkaline Earth, and Transition Metals. Analytical Chemistry, 2007, 79, 2901-2910.	3.2	112
47	Infrared Multiphoton Dissociation and Electron-Induced Dissociation as Alternative MS/MS Strategies for Metabolite Identification. Analytical Chemistry, 2007, 79, 7858-7866.	3.2	46
48	Electrospray Ionization Fourier Transform Ion Cyclotron Resonance Mass Spectrometry for Lectin Analysis. , 2007, , 343-371.		0
49	Intrinsic Deuterium Kinetic Isotope Effects in Glutamate Mutase Measured by an Intramolecular Competition Experiment. Angewandte Chemie - International Edition, 2007, 46, 8455-8459.	7.2	16
50	Preferential cleavage of SS and CS bonds in electron detachment dissociation and infrared multiphoton dissociation of disulfide-linked peptide anions. International Journal of Mass Spectrometry, 2007, 263, 71-81.	0.7	49
51	Collision-activated dissociation, infrared multiphoton dissociation, and electron capture dissociation of the Bacillus anthracis siderophore petrobactin and its metal ion complexes. Journal of the American Society for Mass Spectrometry, 2007, 18, 842-849.	1.2	15
52	Abundant b-type ions produced in electron capture dissociation of peptides without basic amino acid residues. Journal of the American Society for Mass Spectrometry, 2007, 18, 2007-2013.	1.2	23
53	Electron detachment dissociation of neutral and sialylated oligosaccharides. Journal of the American Society for Mass Spectrometry, 2007, 18, 2162-2172.	1.2	50
54	Metabolic Coupling of Dehydration and Decarboxylation in the Curacin A Pathway:Â Functional Identification of a Mechanistically Diverse Enzyme Pair. Journal of the American Chemical Society, 2006, 128, 9014-9015.	6.6	103

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55	Site-specific amide hydrogen exchange in melittin probed by electron capture dissociation Fourier transform ion cyclotron resonance mass spectrometry. Analyst, The, 2006, 131, 275-280.	1.7	21
56	Electron Capture Dissociation of Tyrosine O-Sulfated Peptides Complexed with Divalent Metal Cations. Analytical Chemistry, 2006, 78, 7570-7576.	3.2	59
57	Selective Zirconium Dioxide-Based Enrichment of Phosphorylated Peptides for Mass Spectrometric Analysis. Analytical Chemistry, 2006, 78, 1743-1749.	3.2	478
58	Infrared Multiphoton Dissociation and Electron Capture Dissociation of High-Mannose Type Glycopeptides. Journal of Proteome Research, 2006, 5, 493-501.	1.8	81
59	Characterization of nucleic acid higher order structure by high-resolution tandem mass spectrometry. Analytical and Bioanalytical Chemistry, 2006, 386, 675-681.	1.9	37
60	Fragmentation of oligoribonucleotides from gas-phase ion-electron reactions. Journal of the American Society for Mass Spectrometry, 2006, 17, 1369-1375.	1.2	48
61	Divalent metal ion-peptide interactions probed by electron capture dissociation of trications. Journal of the American Society for Mass Spectrometry, 2006, 17, 1731-1741.	1.2	76
62	The role of electron capture dissociation in biomolecular analysis. Mass Spectrometry Reviews, 2005, 24, 201-222.	2.8	453
63	Characterization of Oligodeoxynucleotides by Electron Detachment Dissociation Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. Analytical Chemistry, 2005, 77, 1876-1882.	3.2	92
64	Protein kinase A phosphorylation characterized by tandem Fourier transform ion cyclotron resonance mass spectrometry. Proteomics, 2004, 4, 970-981.	1.3	79
65	Rapid electron capture dissociation of mass-selectively accumulated oligodeoxynucleotide dications. International Journal of Mass Spectrometry, 2004, 234, 123-130.	0.7	36
66	Inter-molecular migration during collisional activation monitored by hydrogen/deuterium exchange FT-ICR tandem mass spectrometry. Journal of the American Society for Mass Spectrometry, 2004, 15, 639-646.	1.2	16
67	Theoretical and Experimental Prospects for Protein Identification Based Solely on Accurate Mass Measurement. Journal of Proteome Research, 2004, 3, 61-67.	1.8	76
68	Phosphorylation-Dependent Binding of 14-3-3 to the Polarity Protein Par3 Regulates Cell Polarity in Mammalian Epithelia. Current Biology, 2003, 13, 2082-2090.	1.8	145
69	Electron capture dissociation and infrared multiphoton dissociation of oligodeoxynucleotide dications. Journal of the American Society for Mass Spectrometry, 2003, 14, 23-41.	1.2	76
70	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.	1.2	18
71	Secondary fragmentation of linear peptides in electron capture dissociation. International Journal of Mass Spectrometry, 2003, 228, 723-728.	0.7	81
72	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.	1.8	34

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73	Combined Electron Capture and Infrared Multiphoton Dissociation for Multistage MS/MS in a Fourier Transform Ion Cyclotron Resonance Mass Spectrometer. Analytical Chemistry, 2003, 75, 3256-3262.	3.2	241
74	Letter: The Diagnostic Value of Amino Acid Side-Chain Losses in Electron Capture Dissociation of Polypeptides. Comment on: â€œCan the (M.â^'X) Region in Electron Capture Dissociation Provide Reliable Information on Amino Acid Composition of Polypeptides?â€¸ Eur. J. Mass Spectrom. 8, 461â€“469 (2002). European Journal of Mass Spectrometry, 2003, 9, 221-222.	0.5	36
75	High Resolution Tandem Mass Spectrometry for Structural Biochemistry. Current Organic Chemistry, 2003, 7, 1503-1525.	0.9	38
76	Characterization of amino acid side chain losses in electron capture dissociation. Journal of the American Society for Mass Spectrometry, 2002, 13, 241-249.	1.2	146
77	Characterization of the P13 membrane protein of Borrelia burgdorferi by mass spectrometry. Journal of the American Society for Mass Spectrometry, 2002, 13, 295-299.	1.2	20
78	Electron Capture Dissociation and Infrared Multiphoton Dissociation MS/MS of an N-Glycosylated Tryptic Peptide To Yield Complementary Sequence Information. Analytical Chemistry, 2001, 73, 4530-4536.	3.2	362
79	High-Sensitivity Electron Capture Dissociation Tandem FTICR Mass Spectrometry of Microelectrosprayed Peptides. Analytical Chemistry, 2001, 73, 3605-3610.	3.2	73
80	Inter- and intra-molecular migration of peptide amide hydrogens during electrospray ionization. Journal of the American Society for Mass Spectrometry, 2001, 12, 410-419.	1.2	22
81	A 9.4 T Fourier Transform Ion Cyclotron Resonance Mass Spectrometer: Description and Performance. European Journal of Mass Spectrometry, 2000, 6, 267-275.	0.5	66
82	Low-mass ions observed in plasma desorption mass spectrometry of high explosives. , 2000, 35, 337-346.		280
83	A new method for the accurate determination of the isotopic state of single amide hydrogens within peptides using Fourier transform ion cyclotron resonance mass spectrometry. Rapid Communications in Mass Spectrometry, 2000, 14, 1751-1756.	0.7	17
84	Mechanistic studies of multipole storage assisted dissociation. Journal of the American Society for Mass Spectrometry, 2000, 11, 210-217.	1.2	50
85	Design and performance of an electrospray ionization time-of-flight mass spectrometer. Review of Scientific Instruments, 2000, 71, 36-41.	0.6	9
86	Identification of defensins in human lymphocyte nuclei. FEBS Journal, 1999, 263, 312-318.	0.2	27
87	Electron capture dissociation of substance P using a commercially available Fourier transform ion cyclotron resonance mass spectrometer. , 1999, 13, 474-477.		77
88	Interaction between explosive and analyte layers in explosive matrix-assisted plasma desorption mass spectrometry. , 1999, 13, 1169-1174.		7
89	A method to significantly lessen the sample contamination of the vacuum interface of an on-axis electrospray ion source by adding a mechanical shutter. , 1999, 13, 1550-1550.		6
90	Electron capture dissociation of substance P using a commercially available Fourier transform ion cyclotron resonance mass spectrometer. , 1999, 13, 474.		1

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91	Combination of nozzle-skimmer fragmentation and partial acid hydrolysis in electrospray ionization time-of-flight mass spectrometry of synthetic peptides. Rapid Communications in Mass Spectrometry, 1998, 12, 705-711.	0.7	24