

Jennifer S Brodbelt

List of Publications by Year in descending order

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17429

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422
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422
docs citations

422
times ranked

10851
citing authors

#	ARTICLE	IF	CITATIONS
1	Complete Protein Characterization Using Top-Down Mass Spectrometry and Ultraviolet Photodissociation. <i>Journal of the American Chemical Society</i> , 2013, 135, 12646-12651.	6.6	297
2	Photodissociation mass spectrometry: new tools for characterization of biological molecules. <i>Chemical Society Reviews</i> , 2014, 43, 2757-2783.	18.7	256
3	The rice immune receptor XA21 recognizes a tyrosine-sulfated protein from a Gram-negative bacterium. <i>Science Advances</i> , 2015, 1, e1500245.	4.7	209
4	Screen identifies bromodomain protein ZMYND8 in chromatin recognition of transcription-associated DNA damage that promotes homologous recombination. <i>Genes and Development</i> , 2015, 29, 197-211.	2.7	204
5	Ion Activation Methods for Peptides and Proteins. <i>Analytical Chemistry</i> , 2016, 88, 30-51.	3.2	177
6	Pinpointing Double Bond and <i>sn</i> -Positions in Glycerophospholipids via Hybrid 193 nm Ultraviolet Photodissociation (UVPD) Mass Spectrometry. <i>Journal of the American Chemical Society</i> , 2017, 139, 15681-15690.	6.6	160
7	Gas-phase selectivities of crown ethers for alkali metal ion complexation. <i>Journal of the American Chemical Society</i> , 1992, 114, 4295-4298.	6.6	155
8	Ultraviolet Photodissociation Mass Spectrometry for Analysis of Biological Molecules. <i>Chemical Reviews</i> , 2020, 120, 3328-3380.	23.0	151
9	Analytical applications of ion-molecule reactions. <i>Mass Spectrometry Reviews</i> , 1997, 16, 91-110.	2.8	148
10	A Method for the Determination of Binding Constants by Electrospray Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2000, 72, 5411-5416.	3.2	148
11	Amino acid addition to <i>Vibrio cholerae</i> LPS establishes a link between surface remodeling in Gram-positive and Gram-negative bacteria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 8722-8727.	3.3	133
12	Directed evolution of genetic parts and circuits by compartmentalized partnered replication. <i>Nature Biotechnology</i> , 2014, 32, 97-101.	9.4	133
13	Reinforcing Lipid A Acylation on the Cell Surface of <i>Acinetobacter baumannii</i> Promotes Cationic Antimicrobial Peptide Resistance and Desiccation Survival. <i>MBio</i> , 2015, 6, e00478-15.	1.8	131
14	Determination of benzophenone-3 and metabolites in water and human urine by solid-phase microextraction and quadrupole ion trap GC-MS. <i>Analytica Chimica Acta</i> , 1998, 371, 195-203.	2.6	130
15	Infrared multiphoton dissociation in quadrupole ion traps. <i>Mass Spectrometry Reviews</i> , 2009, 28, 390-424.	2.8	130
16	Probing molecular recognition by mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2000, 200, 57-69.	0.7	127
17	Determination of binding selectivities in host-guest complexation by electrospray/quadrupole ion trap mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 1998, 9, 1049-1059.	1.2	115
18	Investigation of Quadruplex Oligonucleotide-Drug Interactions by Electrospray Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2002, 74, 2029-2033.	3.2	113

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19	Enhanced Detection of Flavonoids by Metal Complexation and Electrospray Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2000, 72, 5898-5906.	3.2	112
20	Structural Characterization of Phosphatidylcholines Using 193 nm Ultraviolet Photodissociation Mass Spectrometry. <i>Analytical Chemistry</i> , 2017, 89, 1516-1522.	3.2	107
21	Enantioselective Reductive Cyclization of 1,6-Enynes via Rhodium-Catalyzed Asymmetric Hydrogenation: A C ¹³ Bond Formation Precedes Hydrogen Activation. <i>Journal of the American Chemical Society</i> , 2005, 127, 6174-6175.	6.6	105
22	Desorption Electrospray Ionization Mass Spectrometry Imaging of Proteins Directly from Biological Tissue Sections. <i>Analytical Chemistry</i> , 2018, 90, 7785-7789.	3.2	104
23	Ultrafast Ultraviolet Photodissociation at 193 nm and its Applicability to Proteomic Workflows. <i>Journal of Proteome Research</i> , 2010, 9, 4205-4214.	1.8	102
24	Characterization of Native Protein Complexes Using Ultraviolet Photodissociation Mass Spectrometry. <i>Journal of the American Chemical Society</i> , 2014, 136, 12920-12928.	6.6	102
25	Determination of barbiturates by solid-phase microextraction (SPME) and ion trap gas chromatography-mass spectrometry. <i>Journal of Chromatography A</i> , 1997, 777, 275-282.	1.8	100
26	Chemical ionization in an ion trap mass spectrometer. <i>Analytical Chemistry</i> , 1987, 59, 1278-1285.	3.2	99
27	Shotgun Analysis of Rough-Type Lipopolysaccharides Using Ultraviolet Photodissociation Mass Spectrometry. <i>Analytical Chemistry</i> , 2016, 88, 1044-1051.	3.2	93
28	An empirical approach to estimation of critical energies by using a quadrupole ion trap. <i>Journal of the American Society for Mass Spectrometry</i> , 1996, 7, 1116-1125.	1.2	91
29	Infrared multiphoton dissociation (IRMPD) and collisionally activated dissociation of peptides in a quadrupole ion trap with selective IRMPD of phosphopeptides. <i>Journal of the American Society for Mass Spectrometry</i> , 2004, 15, 1581-1592.	1.2	91
30	Synthesis and Alkali Metal Ion Binding Properties of Two Rigid Stereochemical Isomers of Calix[6]arene Bis-crown-4. <i>Journal of the American Chemical Society</i> , 2000, 122, 1486-1491.	6.6	90
31	Relative Binding Energies of Gas-Phase Pyridyl Ligand/Metal Complexes by Energy-Variable Collisionally Activated Dissociation in a Quadrupole Ion Trap. <i>Inorganic Chemistry</i> , 2001, 40, 5393-5400.	1.9	90
32	Differentiation of flavonoid glycoside isomers by using metal complexation and electrospray ionization mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2003, 14, 1437-1453.	1.2	90
33	Infrared Photoactivation Reduces Peptide Folding and Hydrogen Atom Migration following ETD Tandem Mass Spectrometry. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 8526-8528.	7.2	90
34	The first pilot project of the consortium for top-down proteomics: status report. <i>Proteomics</i> , 2014, 14, 1130-1140.	1.3	90
35	Determination of the glycosylation site of flavonoid monoglucosides by metal complexation and tandem mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2004, 15, 1287-1299.	1.2	89
36	Systematic bromodomain protein screens identify homologous recombination and R-loop suppression pathways involved in genome integrity. <i>Genes and Development</i> , 2019, 33, 1751-1774.	2.7	89

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37	Determination of orders of relative alkali metal ion affinities of crown ethers and acyclic analogs by the kinetic method. <i>Journal of the American Society for Mass Spectrometry</i> , 1992, 3, 543-548.	1.2	87
38	Transmission mode desorption electrospray ionization. <i>Journal of the American Society for Mass Spectrometry</i> , 2008, 19, 1612-1620.	1.2	87
39	Cavity-size-dependent dissociation of crown ether/ammonium ion complexes in the gas phase. <i>Journal of the American Chemical Society</i> , 1993, 115, 2837-2843.	6.6	85
40	Click and chemically triggered declick reactions through reversible amine and thiol coupling via a conjugate acceptor. <i>Nature Chemistry</i> , 2016, 8, 968-973.	6.6	85
41	Evaluation of binding of perylene diimide and benzannulated perylene diimide ligands to dna by electrospray ionization mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2006, 17, 593-604.	1.2	83
42	In vivo mass spectrometric determination of organic compounds in blood with a membrane probe. <i>Analytical Chemistry</i> , 1987, 59, 454-458.	3.2	82
43	ESI-MS, DFT, and Synthetic Studies on the H ₂ -Mediated Coupling of Acetylene: Insertion of C-X Bonds into Rhodacyclopentadienes and Brønsted Acid Cocatalyzed Hydrogenolysis of Organorhodium Intermediates. <i>Journal of the American Chemical Society</i> , 2009, 131, 16054-16062.	6.6	82
44	Ultraviolet Photodissociation for Characterization of Whole Proteins on a Chromatographic Time Scale. <i>Analytical Chemistry</i> , 2014, 86, 2185-2192.	3.2	81
45	Chromogenic Cross-Linker for the Characterization of Protein Structure by Infrared Multiphoton Dissociation Mass Spectrometry. <i>Analytical Chemistry</i> , 2008, 80, 4807-4819.	3.2	80
46	Desorption Electrospray Ionization Coupled with Ultraviolet Photodissociation for Characterization of Phospholipid Isomers in Tissue Sections. <i>Analytical Chemistry</i> , 2018, 90, 10100-10104.	3.2	79
47	Determination of Cannabinoids in Water and Human Saliva by Solid-Phase Microextraction and Quadrupole Ion Trap Gas Chromatography/Mass Spectrometry. <i>Analytical Chemistry</i> , 1998, 70, 1788-1796.	3.2	76
48	Analysis of flavonoids: Tandem mass spectrometry, computational methods, and NMR. <i>Journal of Mass Spectrometry</i> , 2008, 43, 1581-1617.	0.7	75
49	Identification of tetracycline antibiotics by electrospray ionization in a quadrupole ion trap. <i>Journal of the American Society for Mass Spectrometry</i> , 1998, 9, 1089-1098.	1.2	71
50	Elucidation of a novel <i>Vibrio cholerae</i> lipid A secondary hydroxyacyltransferase and its role in innate immune recognition. <i>Molecular Microbiology</i> , 2011, 81, 1313-1329.	1.2	71
51	Structural characterization and isomer differentiation of chalcones by electrospray ionization tandem mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2003, 38, 555-572.	0.7	70
52	Absorption, conjugation and efflux of the flavonoids, kaempferol and galangin, using the intestinal CaCo-2/TC7 cell model. <i>Journal of Functional Foods</i> , 2009, 1, 74-87.	1.6	70
53	Transmission-mode direct analysis in real time and desorption electrospray ionization mass spectrometry of insecticide-treated bednets for malaria control. <i>Analyst</i> , 2010, 135, 712.	1.7	70
54	193-nm photodissociation of singly and multiply charged peptide anions for acidic proteome characterization. <i>Proteomics</i> , 2011, 11, 1329-1334.	1.3	70

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55	Selective adduct formation by dimethyl ether chemical ionization in a quadrupole ion trap mass spectrometer and a conventional ion source. <i>Analytical Chemistry</i> , 1991, 63, 1205-1209.	3.2	69
56	Comparison of gas-phase proton and ammonium ion affinities of crown ethers and related acyclic analogs. <i>Journal of the American Chemical Society</i> , 1992, 114, 6761-6764.	6.6	69
57	Structural Characterization of Dihydrofolate Reductase Complexes by Top-Down Ultraviolet Photodissociation Mass Spectrometry. <i>Journal of the American Chemical Society</i> , 2015, 137, 9128-9135.	6.6	69
58	High-Throughput Analysis of Intact Human Proteins Using UVPD and HCD on an Orbitrap Mass Spectrometer. <i>Journal of Proteome Research</i> , 2017, 16, 2072-2079.	1.8	69
59	Ion Activation Methods for Peptides and Proteins. <i>Analytical Chemistry</i> , 2020, 92, 227-251.	3.2	69
60	Structural characterization of flavonoid glycosides by collisionally activated dissociation of metal complexes. <i>Journal of the American Society for Mass Spectrometry</i> , 2001, 12, 537-549.	1.2	67
61	Structural characterization of holo- and apo-myoglobin in the gas phase by ultraviolet photodissociation mass spectrometry. <i>Chemical Science</i> , 2015, 6, 1324-1333.	3.7	67
62	Extracellular zinc induces phosphoethanolamine addition to <i>Pseudomonas aeruginosa</i> lipid A via the ColRS two-component system. <i>Molecular Microbiology</i> , 2015, 97, 166-178.	1.2	67
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.	1.2	67
64	Use of Infrared Multiphoton Photodissociation with SWIFT for Electrospray Ionization and Laser Desorption Applications in a Quadrupole Ion Trap Mass Spectrometer. <i>Analytical Chemistry</i> , 1996, 68, 4033-4043.	3.2	65
65	Gas-Phase Hydrogen/Deuterium Exchange and Conformations of Deprotonated Flavonoids and Gas-Phase Acidities of Flavonoids. <i>Journal of the American Chemical Society</i> , 2004, 126, 5906-5919.	6.6	65
66	Concurrent Automated Sequencing of the Glycan and Peptide Portions of O-Linked Glycopeptide Anions by Ultraviolet Photodissociation Mass Spectrometry. <i>Analytical Chemistry</i> , 2013, 85, 9253-9261.	3.2	65
67	ZMYM3 regulates BRCA1 localization at damaged chromatin to promote DNA repair. <i>Genes and Development</i> , 2017, 31, 260-274.	2.7	65
68	193 nm Ultraviolet Photodissociation Mass Spectrometry of Tetrameric Protein Complexes Provides Insight into Quaternary and Secondary Protein Topology. <i>Journal of the American Chemical Society</i> , 2016, 138, 10849-10859.	6.6	64
69	Investigation of Alkali Metal Cation Selectivities of Lariat Ethers by Electrospray Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 1999, 71, 5493-5500.	3.2	63
70	Tyrosine sulfation in a Gram-negative bacterium. <i>Nature Communications</i> , 2012, 3, 1153.	5.8	63
71	Silver Complexation and Tandem Mass Spectrometry for Differentiation of Isomeric Flavonoid Diglycosides. <i>Analytical Chemistry</i> , 2005, 77, 1761-1770.	3.2	60
72	Evolving tRNA ^{Sec} for Efficient Canonical Incorporation of Selenocysteine. <i>Journal of the American Chemical Society</i> , 2015, 137, 46-49.	6.6	60

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73	Evaluation of Binding Selectivities of Caged Crown Ligands toward Heavy Metals by Electrospray Ionization/Quadrupole Ion Trap Mass Spectrometry. <i>Analytical Chemistry</i> , 2000, 72, 2433-2445.	3.2	59
74	193 nm Ultraviolet Photodissociation of Deprotonated Sialylated Oligosaccharides. <i>Analytical Chemistry</i> , 2011, 83, 8192-8200.	3.2	58
75	Structural heterogeneity in the intrinsically disordered RNA polymerase II C-terminal domain. <i>Nature Communications</i> , 2017, 8, 15231.	5.8	58
76	MS/MS Simplification by 355 nm Ultraviolet Photodissociation of Chromophore-Derivatized Peptides in a Quadrupole Ion Trap. <i>Analytical Chemistry</i> , 2007, 79, 7883-7892.	3.2	57
77	EptC of <i>Campylobacter jejuni</i> Mediates Phenotypes Involved in Host Interactions and Virulence. <i>Infection and Immunity</i> , 2013, 81, 430-440.	1.0	57
78	Characterization of Therapeutic Monoclonal Antibodies at the Subunit-Level using Middle-Down 193 nm Ultraviolet Photodissociation. <i>Analytical Chemistry</i> , 2016, 88, 4004-4013.	3.2	57
79	Metal Complexation Reactions of Quinolone Antibiotics in a Quadrupole Ion Trap. <i>Analytical Chemistry</i> , 1997, 69, 1147-1155.	3.2	55
80	Novel Guanosine-Cytidine Dinucleoside that Self-Assembles into a Trimeric Supramolecule. <i>Organic Letters</i> , 2003, 5, 2627-2630.	2.4	55
81	Differentiation of Phosphorylated and Unphosphorylated Peptides by High-Performance Liquid Chromatography-Electrospray Ionization-Infrared Multiphoton Dissociation in a Quadrupole Ion Trap. <i>Analytical Chemistry</i> , 2005, 77, 5726-5734.	3.2	55
82	Direct Identification of Tyrosine Sulfation by using Ultraviolet Photodissociation Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2014, 25, 1461-1471.	1.2	54
83	Synthesis and Characterization of Insulin-Transferrin Conjugates. <i>Bioconjugate Chemistry</i> , 2006, 17, 1376-1384.	1.8	53
84	Analysis of fire ant pesticides in water by solid-phase microextraction and gas chromatography/mass spectrometry or high-performance liquid chromatography/mass spectrometry. <i>Analytica Chimica Acta</i> , 2001, 436, 11-20.	2.6	52
85	Metal Complexation of Thiacrown Ether Macrocycles by Electrospray Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2002, 74, 4423-4433.	3.2	52
86	Structural Characterization and Detection of Kale Flavonoids by Electrospray Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2003, 75, 6401-6407.	3.2	52
87	Structural Characterization of Gangliosides and Glycolipids via Ultraviolet Photodissociation Mass Spectrometry. <i>Analytical Chemistry</i> , 2013, 85, 10399-10407.	3.2	52
88	193 nm Ultraviolet Photodissociation Mass Spectrometry for the Structural Elucidation of Lipid A Compounds in Complex Mixtures. <i>Analytical Chemistry</i> , 2014, 86, 2138-2145.	3.2	52
89	Colistin heteroresistance in <i>Enterobacter cloacae</i> is regulated by PhoPQ-dependent 4-amino-4-deoxy-L-arabinose addition to lipid A. <i>Molecular Microbiology</i> , 2019, 111, 1604-1616.	1.2	52
90	Antimicrobial Peptide Resistance of <i>Vibrio cholerae</i> Results from an LPS Modification Pathway Related to Nonribosomal Peptide Synthetases. <i>ACS Chemical Biology</i> , 2014, 9, 2382-2392.	1.6	51

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91	Identification of isomeric flavonoid glucuronides in urine and plasma by metal complexation and LC-ESI-MS/MS. <i>Journal of Mass Spectrometry</i> , 2006, 41, 911-920.	0.7	50
92	Isolation and Chemical Characterization of Lipid A from Gram-negative Bacteria. <i>Journal of Visualized Experiments</i> , 2013, , e50623.	0.2	50
93	An exceedingly simple mass spectrometer interface with application to reaction monitoring and environmental analysis. <i>Analytical Chemistry</i> , 1985, 57, 1153-1155.	3.2	49
94	Characterization of the reactive and dissociative behavior of transition metal oxide cluster ions in the gas phase. <i>Journal of the American Society for Mass Spectrometry</i> , 1991, 2, 212-219.	1.2	49
95	Ultraviolet Photodissociation at 355 nm of Fluorescently Labeled Oligosaccharides. <i>Analytical Chemistry</i> , 2008, 80, 5186-5196.	3.2	49
96	Charge site assignment in native proteins by ultraviolet photodissociation (UVPD) mass spectrometry. <i>Analyst, The</i> , 2016, 141, 166-176.	1.7	49
97	Energy-resolved collisional activation of dimethyl phosphonate and dimethyl phosphite ions in a quadrupole ion trap and a triple quadrupole mass spectrometer. <i>Organic Mass Spectrometry</i> , 1988, 23, 6-9.	1.3	48
98	MSn characterization of protonated cyclic peptides and metal complexes. <i>Journal of the American Society for Mass Spectrometry</i> , 2004, 15, 1039-1054.	1.2	48
99	Screening flavonoid metabolites of naringin and narirutin in urine after human consumption of grapefruit juice by LC-MS and LC-MS/MS. <i>Analyst, The</i> , 2004, 129, 1227.	1.7	48
100	Threshold dissociation and molecular modeling of transition metal complexes of flavonoids. <i>Journal of the American Society for Mass Spectrometry</i> , 2005, 16, 139-151.	1.2	48
101	Characterization of flavonoids by aluminum complexation and collisionally activated dissociation. <i>Journal of Mass Spectrometry</i> , 2005, 40, 350-363.	0.7	48
102	Probing the Interaction of Aspergillomarasmine A with Metallo- β -lactamases NDM-1, VIM-2, and IMP-7. <i>ACS Infectious Diseases</i> , 2018, 4, 135-145.	1.8	48
103	Selective formation of molecular oxygen/perfluoro crown ether adduct ions in the gas phase. <i>Journal of the American Chemical Society</i> , 1991, 113, 5913-5914.	6.6	47
104	Determination of alkali metal ion binding selectivities of calixarenes by matrix-assisted laser desorption ionization and electrospray ionization in a quadrupole ion trap. <i>International Journal of Mass Spectrometry</i> , 1999, 193, 197-204.	0.7	47
105	Threshold dissociation energies of protonated amine/polyether complexes in a quadrupole ion trap. <i>Journal of the American Society for Mass Spectrometry</i> , 2003, 14, 383-392.	1.2	47
106	Evaluation of complexes of DNA duplexes and novel benzoxazoles or benzimidazoles by electrospray ionization mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2004, 15, 1593-1603.	1.2	47
107	Synthesis and Chemistry of Perfluoro Macrocycles. <i>Journal of the American Chemical Society</i> , 1994, 116, 5172-5179.	6.6	46
108	Collisionally activated dissociation and infrared multiphoton dissociation of oligonucleotides in a quadrupole ion trap. <i>Analytical Biochemistry</i> , 2004, 326, 200-210.	1.1	46

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109	PepSAVI-MS reveals anticancer and antifungal cycloviolacins in <i>Viola odorata</i> . <i>Phytochemistry</i> , 2018, 152, 61-70.	1.4	46
110	Gas-Phase Complexation of Monopositive Alkaline Earth Metal Ions with Polyethers: Comparison with Alkali Metal Ion and Aluminum Ion Complexations. <i>Journal of the American Chemical Society</i> , 1994, 116, 6418-6426.	6.6	45
111	Evaluation of binding selectivities of bis-crowned clefts by electrospray ionization/quadrupole ion trap mass spectrometry. <i>Journal of Mass Spectrometry</i> , 1998, 33, 721-728.	0.7	45
112	Evaluation of metal complexation as an alternative to protonation for electrospray ionization of pharmaceutical compounds. <i>Journal of the American Society for Mass Spectrometry</i> , 1998, 9, 463-472.	1.2	45
113	Characterization of erythromycin analogs by collisional activated dissociation and infrared multiphoton dissociation in a quadrupole ion trap. <i>Journal of the American Society for Mass Spectrometry</i> , 2002, 13, 630-649.	1.2	45
114	An Equilibrium Partitioning Model for Predicting Response to Host ⁺ Guest Complexation in Electrospray Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2003, 75, 1828-1836.	3.2	45
115	IR and UV Photodissociation as Analytical Tools for Characterizing Lipid A Structures. <i>Analytical Chemistry</i> , 2011, 83, 5107-5113.	3.2	45
116	Characterization of Unique Modification of Flagellar Rod Protein FlgG by <i>Campylobacter jejuni</i> Lipid A Phosphoethanolamine Transferase, Linking Bacterial Locomotion and Antimicrobial Peptide Resistance. <i>Journal of Biological Chemistry</i> , 2012, 287, 3326-3336.	1.6	45
117	Study of diketone/metal ion complexes by electrospray ionization mass spectrometry: Influence of Keto-Enol tautomerism and chelation. <i>Journal of the American Society for Mass Spectrometry</i> , 1999, 10, 402-413.	1.2	43
118	Simplifying Fragmentation Patterns of Multiply Charged Peptides by N-Terminal Derivatization and Electron Transfer Collision Activated Dissociation. <i>Analytical Chemistry</i> , 2009, 81, 3645-3653.	3.2	43
119	Infrared Multiphoton Dissociation of Peptide Cations in a Dual Pressure Linear Ion Trap Mass Spectrometer. <i>Analytical Chemistry</i> , 2009, 81, 8109-8118.	3.2	43
120	Top-Down Characterization of Heavily Modified Histones Using 193 nm Ultraviolet Photodissociation Mass Spectrometry. <i>Journal of Proteome Research</i> , 2018, 17, 1138-1145.	1.8	43
121	Comparison of infrared multiphoton dissociation and collision-induced dissociation of supercharged peptides in ion traps. <i>Journal of the American Society for Mass Spectrometry</i> , 2009, 20, 349-358.	1.2	42
122	Evaluation of DNA/Ligand Interactions by Electrospray Ionization Mass Spectrometry. <i>Annual Review of Analytical Chemistry</i> , 2010, 3, 67-87.	2.8	42
123	Infrared Multiphoton Dissociation for Enhanced de Novo Sequence Interpretation of N-Terminal Sulfonated Peptides in a Quadrupole Ion Trap. <i>Analytical Chemistry</i> , 2006, 78, 6855-6862.	3.2	41
124	Hybrid Activation Methods for Elucidating Nucleic Acid Modifications. <i>Analytical Chemistry</i> , 2011, 83, 303-310.	3.2	41
125	The Outer Membrane of Gram-Negative Bacteria: Lipid A Isolation and Characterization. <i>Methods in Molecular Biology</i> , 2013, 966, 239-258.	0.4	41
126	Hybridizing Ultraviolet Photodissociation with Electron Transfer Dissociation for Intact Protein Characterization. <i>Analytical Chemistry</i> , 2014, 86, 10970-10977.	3.2	41

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127	Top-Down 193-nm Ultraviolet Photodissociation Mass Spectrometry for Simultaneous Determination of Polyubiquitin Chain Length and Topology. <i>Analytical Chemistry</i> , 2015, 87, 1812-1820.	3.2	41
128	Shedding Light on the Frontier of Photodissociation. <i>Journal of the American Society for Mass Spectrometry</i> , 2011, 22, 197-206.	1.2	40
129	An altered zinc-binding site confers resistance to a covalent inactivator of New Delhi metallo-beta-lactamase-1 (NDM-1) discovered by high-throughput screening. <i>Bioorganic and Medicinal Chemistry</i> , 2013, 21, 3138-3146.	1.4	40
130	193 nm Ultraviolet Photodissociation Mass Spectrometry for Phosphopeptide Characterization in the Positive and Negative Ion Modes. <i>Journal of Proteome Research</i> , 2016, 15, 2739-2748.	1.8	40
131	Detection of the isoflavone aglycones genistein and daidzein in urine using solid-phase microextractionâ€“high-performance liquid chromatographyâ€“electrospray ionization mass spectrometry. <i>Biomedical Applications</i> , 2001, 759, 33-41.	1.7	39
132	Custom selenoprotein production enabled by laboratory evolution of recoded bacterial strains. <i>Nature Biotechnology</i> , 2018, 36, 624-631.	9.4	39
133	Localization of Cyclopropane Modifications in Bacterial Lipids via 213 nm Ultraviolet Photodissociation Mass Spectrometry. <i>Analytical Chemistry</i> , 2019, 91, 6820-6828.	3.2	39
134	The natural representation of real numbers. <i>Computers and Mathematics With Applications</i> , 1993, 25, 3-14.	1.4	38
135	Characterization of Oligodeoxynucleotides and Modifications by 193 nm Photodissociation and Electron Photodetachment Dissociation. <i>Analytical Chemistry</i> , 2010, 82, 7218-7226.	3.2	38
136	Covalent Inhibition of New Delhi Metalloâ€“betaâ€“Lactamaseâ€“1 (NDMâ€“1) by Cefaclor. <i>ChemBioChem</i> , 2014, 15, 2541-2548.	1.3	38
137	Impact of G12 Mutations on the Structure of K-Ras Probed by Ultraviolet Photodissociation Mass Spectrometry. <i>Journal of the American Chemical Society</i> , 2016, 138, 13187-13196.	6.6	38
138	Double Bond Characterization of Free Fatty Acids Directly from Biological Tissues by Ultraviolet Photodissociation. <i>Analytical Chemistry</i> , 2020, 92, 8386-8395.	3.2	38
139	Gas-Phase Chelation Reactions of Monopositive Cations with Heteroaromatic Ligands. <i>Inorganic Chemistry</i> , 1995, 34, 615-621.	1.9	37
140	Electrospray ionization mass spectrometric detection of self-assembly of a crown ether complex directed by Î€-stacking interactions. <i>Journal of the American Society for Mass Spectrometry</i> , 2005, 16, 1162-1171.	1.2	37
141	Collisionally Activated Dissociation of Transition Metal Ion/Polyether Complexes in a Quadrupole Ion Trap. <i>Journal of the American Chemical Society</i> , 1996, 118, 9131-9138.	6.6	36
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