John S Klassen

List of Publications by Year
in descending order

140 papers	5,556 citations	71102 41 h-index	106344 65 g-index
146 all docs	146 docs citations	146 times ranked	4529 citing authors

#	Article	IF	Citations
1	Reliable Determinations of Proteinâ€“Ligand Interactions by Direct ESI-MS Measurements. Are We There Yet?. Journal of the American Society for Mass Spectrometry, 2012, 23, 431-441.	2.8	204
2	Thermal Decomposition of a Gaseous Multiprotein Complex Studied by Blackbody Infrared Radiative Dissociation. Investigating the Origin of the Asymmetric Dissociation Behavior. Analytical Chemistry, 2001, 73, 4647-4661.	6.5	172
3	Method for Distinguishing Specific from Nonspecific Proteinâ^'Ligand Complexes in Nanoelectrospray Ionization Mass Spectrometry. Analytical Chemistry, 2006, 78, 3010-3018.	6.5	156
4	Activation Energies for Dissociation of Double Strand Oligonucleotide Anions:Â Evidence for Watsonâ^'Crick Base Pairing in Vacuo. Journal of the American Chemical Society, 1998, 120, 9605-9613.	13.7	154
5	Influence of Solution and Gas Phase Processes on Proteinâ^'Carbohydrate Binding Affinities Determined by Nanoelectrospray Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. Analytical Chemistry, 2003, 75, 4945-4955.	6.5	154
6	Sialic acid-containing glycolipids mediate binding and viral entry of SARS-CoV-2. Nature Chemical Biology, 2022, 18, 81-90.	8.0	141
7	Reaction Enthalpies for M+L = M++ L, Where M+= Na+and K+and L = Acetamide,N-Methylacetamide,N,N-Dimethylacetamide, Glycine, and Glycylglycine, from Determinations of the Collision-Induced Dissociation Thresholds. The Journal of Physical Chemistry, 1996, 100, 14218-14227.	2.9	136
8	Functional Characterization of Bacterial Oligosaccharyltransferases Involved in O-Linked Protein Glycosylation. Journal of Bacteriology, 2007, 189, 8088-8098.	2.2	136
9	Collision-Induced Dissociation Threshold Energies of Protonated Glycine, Glycinamide, and Some Related Small Peptides and Peptide Amino Amides. Journal of the American Chemical Society, 1997, 119, 6552-6563.	13.7	122
10	The Peptidisc, a simple method for stabilizing membrane proteins in detergent-free solution. ELife, 2018, 7, .	6.0	119
11	Optogenetic control with a photocleavable protein, PhoCl. Nature Methods, 2017, 14, 391-394.	19.0	117
12	Hydrophobic Proteinâ^'Ligand Interactions Preserved in the Gas Phase. Journal of the American Chemical Society, 2009, 131, 15980-15981.	13.7	96
13	Free Energies of Hydration in the Gas Phase of the Anions of Some Oxo Acids of C, N, S, P, Cl, and I. Journal of the American Chemical Society, 1995, 117, 10563-10571.	13.7	88
14	Hydration of Gas-Phase Gramicidin S (M + 2H) Ions Formed by Electrospray: The Transition From Solution to Gas-Phase Structure. Journal of the American Society for Mass Spectrometry, 1997, 8, 565-568.	2.8	82
15	Method for Stabilizing Proteinâ^'Ligand Complexes in Nanoelectrospray Ionization Mass Spectrometry. Analytical Chemistry, 2007, 79, 416-425.	6.5	80
16	Ligand Specificity of CS-35, a Monoclonal Antibody That Recognizes Mycobacterial Lipoarabinomannan:â€‰A Model System for Oligofuranosideâ^'Protein Recognition. Journal of the American Chemical Society, 2007, 129, 10489-10502.	13.7	77
17	Hydration of gas-phase ions formed by electrospray ionization. Journal of the American Society for Mass Spectrometry, 1999, 10, 958-968.	2.8	74
18	Trapping and characterization of covalent intermediates of mutant retaining glycosyltransferases. Glycobiology, 2011, 21, 547-552.	2.5	70

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19	Determination of Proteinâ^'Ligand Association Thermochemistry Using Variable-Temperature Nanoelectrospray Mass Spectrometry. Journal of the American Chemical Society, 2004, 126, 4786-4787.	13.7	67
20	Genetically Encoded Fragment-Based Discovery of Glycopeptide Ligands for Carbohydrate-Binding Proteins. Journal of the American Chemical Society, 2015, 137, 5248-5251.	13.7	67
21	Nonspecific Proteinâ^'Carbohydrate Complexes Produced by Nanoelectrospray Ionization. Factors Influencing Their Formation and Stability. Analytical Chemistry, 2005, 77, 3060-3071.	6.5	66
22	Droplet Electrospray Mass Spectrometry. Analytical Chemistry, 1994, 66, 3944-3949.	6.5	65
23	Gas Phase Stabilization of Noncovalent Protein Complexes Formed by Electrospray Ionization. Analytical Chemistry, 2009, 81, 7801-7806.	6.5	63
24	Discovery of Light-Responsive Ligands through Screening of a Light-Responsive Genetically Encoded Library. ACS Chemical Biology, 2014, 9, 443-450.	3.4	63
25	Thermal Dissociation of Proteinâ^'Oligosaccharide Complexes in the Gas Phase:Â Mapping the Intrinsic Intermolecular Interactions. Journal of the American Chemical Society, 2002, 124, 5902-5913.	13.7	61
26	Functional properties of the carboxy-terminal host cell-binding domains of the two toxins, TcdA and TcdB, expressed by Clostridium difficile. Glycobiology, 2008, 18, 698-706.	2.5	60
27	The observation of multivalent complexes of Shiga-like toxin with globotriaoside and the determination of their stoichiometry by nanoelectrospray Fourier-transform ion cyclotron resonance mass spectrometry. Glycobiology, 2001, 11, 605-611.	2.5	58
28	Quantifying Protein-Fatty Acid Interactions Using Electrospray Ionization Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2011, 22, 310-318.	2.8	56
29	Gangliosides are Ligands for Human Noroviruses. Journal of the American Chemical Society, 2014, 136, 12631-12637.	13.7	56
30	P. aeruginosa SGNH Hydrolase-Like Proteins AlgJ and AlgX Have Similar Topology but Separate and Distinct Roles in Alginate Acetylation. PLoS Pathogens, 2014, 10, e1004334.	4.7	54
31	Determination of Ionâ^'Solvent Equilibria in the Gas Phase. Hydration of Diprotonated Diamines and Bis(trimethylammonium) Alkanes. Journal of the American Chemical Society, 1996, 118, 12437-12442.	13.7	52
32	The bundlin pilin protein of enteropathogenic Escherichia coli is an N-acetyllactosamine-specific lectin. Cellular Microbiology, 2007, 10, 070816152918004-???.	2.1	51
33	Blackbody infrared radiative dissociation of oligonucleotide anions. Journal of the American Society for Mass Spectrometry, 1998, 9, 1117-1124.	2.8	48
34	Applications of a Catch and Release Electrospray Ionization Mass Spectrometry Assay for Carbohydrate Library Screening. Analytical Chemistry, 2012, 84, 50-58.	6.5	48
35	Method for Identifying Nonspecific Proteinâ^'Protein Interactions in Nanoelectrospray Ionization Mass Spectrometry. Analytical Chemistry, 2007, 79, 8301-8311.	6.5	47
36	Proteinâ€"Glycosphingolipid Interactions Revealed Using Catch-and-Release Mass Spectrometry. Analytical Chemistry, 2012, 84, 7618-7621.	6.5	47

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37	Measuring Positive Cooperativity Using the Direct ESI-MS Assay. Cholera Toxin B Subunit Homopentamer Binding to GM1 Pentasaccharide. Journal of the American Society for Mass Spectrometry, 2014, 25, 104-110.	2.8	47
38	Influence of coulombic repulsion on the dissociation pathways and energetics of multiprotein complexes in the gas phase. Journal of the American Society for Mass Spectrometry, 2007, 18, 617-631.	2.8	46
39	Silent Encoding of Chemical Post-Translational Modifications in Phage-Displayed Libraries. Journal of the American Chemical Society, 2016, 138, 32-35.	13.7	46
40	A versatile soluble siglec scaffold for sensitive and quantitative detection of glycan ligands. Nature Communications, 2020, 11, 5091.	12.8	45
41	The small RbcS-like domains of the Î²-carboxysome structural protein CcmM bind RubisCO at a site distinct from that binding the RbcS subunit. Journal of Biological Chemistry, 2019, 294, 2593-5195.	3.4	44
42	Determination of ion-ligand bond energies and ion fragmentation energies of electrospray-produced ions by collision-induced dissociation threshold measurements. International Journal of Mass Spectrometry and Ion Processes, 1995, 141, 217-228.	1.8	43
43	Substrate Recognition of the Membrane-Associated Sialidase NEU3 Requires a Hydrophobic Aglycone. Biochemistry, 2011, 50, 6753-6762.	2.5	43
44	Structural Basis for Antibody Recognition in the Receptor-binding Domains of Toxins A and B from Clostridium difficile. Journal of Biological Chemistry, 2014, 289, 2331-2343.	3.4	43
45	Dissociation energies of deoxyribose nucleotide dimer anions measured using blackbody infrared radiative dissociation. Journal of the American Society for Mass Spectrometry, 1999, 10, 1095-1104.	2.8	42
46	Affinities of Shiga toxins 1 and 2 for univalent and oligovalent Pk-trisaccharide analogs measured by electrospray ionization mass spectrometry. Glycobiology, 2007, 17, 1127-1137.	2.5	42
47	Nonspecific interactions between proteins and charged biomolecules in electrospray ionization mass spectrometry. Journal of the American Society for Mass Spectrometry, 2010, 21, 472-481.	2.8	42
48	Quantifying labile proteinâ€"Ligand interactions using electrospray ionization mass spectrometry. Journal of the American Society for Mass Spectrometry, 2010, 21, 1893-1899.	2.8	42
49	Binding of Clostridium difficile toxins to human milk oligosaccharides. Glycobiology, 2011, 21, 1217-1227.	2.5	40
50	Quantifying Ligand Binding to Large Protein Complexes Using Electrospray Ionization Mass Spectrometry. Analytical Chemistry, 2012, 84, 3867-3870.	6.5	40
51	Dissociation Kinetics of the Streptavidinâ€"Biotin Interaction Measured Using Direct Electrospray Ionization Mass Spectrometry Analysis. Journal of the American Society for Mass Spectrometry, 2013, 24, 49-56.	2.8	40
52	Temperature-dependent cooperativity in donor-acceptor substrate binding to the human blood group glycosyltransferases. Glycobiology, 2008, 18, 587-592.	2.5	39
53	Catalytic Mechanism and Mode of Action of the Periplasmic Alginate Epimerase AlgG. Journal of Biological Chemistry, 2014, 289, 6006-6019.	3.4	39
54	Direct Quantification of Proteinâ^'Metal Ion Affinities by Electrospray Ionization Mass Spectrometry. Analytical Chemistry, 2010, 82, 2170-2174.	6.5	38

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55	Structural and biochemical characterization of the exopolysaccharide deacetylase Agd3 required for Aspergillus fumigatus biofilm formation. Nature Communications, 2020, 11, 2450.	12.8	38
56	Thermal dissociation of the protein homodimer ecotin in the gas phase. Journal of the American Society for Mass Spectrometry, 2002, 13, 1432-1442.	2.8	37
57	Exploiting Bacterial Glycosylation Machineries for the Synthesis of a Lewis Antigen-containing Glycoprotein. Journal of Biological Chemistry, 2011, 286, 37887-37894.	3.4	37
58	Nanodiscs and Electrospray Ionization Mass Spectrometry: A Tool for Screening Glycolipids Against Proteins. Analytical Chemistry, 2014, 86, 5271-5277.	6.5	37
59	Recognition of human milk oligosaccharides by bacterial exotoxins. Glycobiology, 2015, 25, 845-854.	2.5	37
60	Bioactive Recognition Sites May Not Be Energetically Preferred in Proteinâ^'Carbohydrate Complexes in the Gas Phase. Journal of the American Chemical Society, 2003, 125, 13630-13631.	13.7	34
61	Blackbody infrared radiative dissociation of nonspecific protein-carbohydrate complexes produced by nanoelectrospray ionization: The nature of the noncovalent interactions. Journal of the American Society for Mass Spectrometry, 2005, 16, 1583-1594.	2.8	34
62	Comparative study of substrate and product binding to the human ABO(H) blood group glycosyltransferases. Glycobiology, 2009, 19, 1224-1234.	2.5	34
63	Affinities of recombinant norovirus P dimers for human blood group antigens. Glycobiology, 2013, 23, 276-285.	2.5	34
64	Tulane virus recognizes sialic acids as cellular receptors. Scientific Reports, 2015, 5, 11784.	3.3	33
65	Human Milk Oligosaccharide Specificities of Human Galectins. Comparison of Electrospray Ionization Mass Spectrometry and Glycan Microarray Screening Results. Analytical Chemistry, 2017, 89, 4914-4921.	6.5	33
66	Elucidating the Intermolecular Interactions within a Desolvated Proteinâ^'Ligand Complex. An Experimental and Computational Study. Journal of the American Chemical Society, 2008, 130, 1214-1226.	13.7	32
67	Quantifying Carbohydrateâ€"Protein Interactions by Electrospray Ionization Mass Spectrometry Analysis. Biochemistry, 2012, 51, 4244-4253.	2.5	31
68	Carbohydrate Sulfation As a Mechanism for Fine-Tuning Siglec Ligands. ACS Chemical Biology, 2021, 16, 2673-2689.	3.4	31
69	Chirality recognition of the protonated serine dimer and octamer by infrared multiphoton dissociation spectroscopy. Physical Chemistry Chemical Physics, 2013, 15, 1873-1886.	2.8	30
70	Proteinâ€"Glycolipid Interactions Studied in Vitro Using ESI-MS and Nanodiscs: Insights into the Mechanisms and Energetics of Binding. Analytical Chemistry, 2015, 87, 4888-4896.	6.5	30
71	Stability of the homopentameric b subunits of shiga toxins 1 and 2 in solution and the gas phase as revealed by nanoelectrospray fourier transform ion cyclotron resonance mass spectrometry. Journal of the American Society for Mass Spectrometry, 2005, 16, 1957-1968.	2.8	29
72	Bioengineered Norovirus S₆₀ Nanoparticles as a Multifunctional Vaccine Platform. ACS Nano, 2018, 12, 10665-10682.	14.6	28

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73	Energetics of Lipid Binding in a Hydrophobic Protein Cavity. Journal of the American Chemical Society, 2012, 134, 3054-3060.	13.7	27
74	Picodiscs for Facile Protein-Glycolipid Interaction Analysis. Analytical Chemistry, 2015, 87, 4402-4408.	6.5	27
75	Human Neuraminidase Isoenzymes Show Variable Activities for 9-O-Acetyl-sialoside Substrates. ACS Chemical Biology, 2018, 13, 922-932.	3.4	27
76	An Entropically Efficient Supramolecular Inhibition Strategy for Shiga Toxins. Angewandte Chemie - International Edition, 2008, 47, 672-676.	13.8	26
77	Evidence that Water Can Reduce the Kinetic Stability of Proteinâ˜Hydrophobic Ligand Interactions. Journal of the American Chemical Society, 2010, 132, 17658-17660.	13.7	26
78	Retention of Bioactive Ligand Conformation in a Gaseous Proteinâ˜Trisaccharide Complex. Journal of the American Chemical Society, 2002, 124, 13980-13981.	13.7	25
79	Evidence for the Preservation of Specific Intermolecular Interactions in Gaseous Proteinâ˜Oligosaccharide Complexes. Journal of the American Chemical Society, 2002, 124, 9340-9341.	13.7	25
80	Submicron Emitters Enable Reliable Quantification of Weak Proteinâ€“Glycan Interactions by ESI-MS. Analytical Chemistry, 2021, 93, 4231-4239.	6.5	25
81	Arrhenius activation parameters for the loss of neutral nucleobases from deprotonated oligonucleotide anions in the gas phase. Journal of the American Society for Mass Spectrometry, 2004, 15, 55-64.	2.8	24
82	Identifying nonspecific ligand binding in electrospray ionization mass spectrometry using the reporter molecule method. Journal of the American Society for Mass Spectrometry, 2009, 20, 1242-1250.	2.8	24
83	High-Throughput Label- and Immobilization-Free Screening of Human Milk Oligosaccharides Against Lectins. Analytical Chemistry, 2017, 89, 8713-8722.	6.5	24
84	A quantitative, high-throughput method identifies proteinâ€“glycan interactions via mass spectrometry. Communications Biology, 2019, 2, 268.	4.4	24
85	Gas Phase Ion-Molecule Equilibria Involving Ions Produced by Electrospray. Hydration of Doubly Protonated Diamines. Journal of the American Chemical Society, 1994, 116, 12075-12076.	13.7	23
86	Partitioning of Solvent Effects and Intrinsic Interactions in Biological Recognition. Angewandte Chemie - International Edition, 2004, 43, 4183-4186.	13.8	23
87	Screening Carbohydrate Libraries for Protein Interactions Using the Direct ESI-MS Assay. Applications to Libraries of Unknown Concentration. Journal of the American Society for Mass Spectrometry, 2014, 25, 1908-1916.	2.8	23
88	Affinities of human histo-blood group antigens for norovirus capsid protein complexes. Glycobiology, 2015, 25, 170-180.	2.5	23
89	Kinetic Stability of the Streptavidinâ€“Biotin Interaction Enhanced in the Gas Phase. Journal of the American Chemical Society, 2012, 134, 16586-16596.	13.7	22
90	Identifying Carbohydrate Ligands of a Norovirus P Particle using a Catch and Release Electrospray Ionization Mass Spectrometry Assay. Journal of the American Society for Mass Spectrometry, 2014, 25, 111-119.	2.8	22

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91	Quantifying Protein Interactions with Isomeric Carbohydrate Ligands Using a Catch and Release Electrospray Ionization-Mass Spectrometry Assay. Analytical Chemistry, 2013, 85, 7637-7644.	6.5	21
92	Influence of Sulfolane on ESI-MS Measurements of Proteinâ€“Ligand Affinities. Journal of the American Society for Mass Spectrometry, 2016, 27, 498-506.	2.8	21
93	Quantifying Protein-Carbohydrate Interactions Using Liquid Sample Desorption Electrospray Ionization Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2015, 26, 98-106.	2.8	20
94	Screening Glycolipids Against Proteins in Vitro Using Picodiscs and Catch-and-Release Electrospray Ionization-Mass Spectrometry. Analytical Chemistry, 2016, 88, 4742-4750.	6.5	20
95	Characterizing the Size and Composition of Saposin A Lipoprotein Picodiscs. Analytical Chemistry, 2016, 88, 9524-9531.	6.5	20
96	Mass Spectrometry-Based Shotgun Glycomics for Discovery of Natural Ligands of Glycan-Binding Proteins. Analytical Chemistry, 2020, 92, 14012-14020.	6.5	20
97	Quantifying Proteinâ€“Ligand Interactions by Direct Electrospray Ionization-MS Analysis: Evidence of Nonuniform Response Factors Induced by High Molecular Weight Molecules and Complexes. Analytical Chemistry, 2013, 85, 8919-8922.	6.5	19
98	Crystal structures of human lysosomal EPDR1 reveal homology with the superfamily of bacterial lipoprotein transporters. Communications Biology, 2019, 2, 52.	4.4	18
99	Fucosylated Human Milk Oligosaccharide Foraging within the Species Bifidobacterium pseudocatenulatum Is Driven by Glycosyl Hydrolase Content and Specificity. Applied and Environmental Microbiology, 2022, 88, AEM0170721.	3.1	18
100	Screening natural libraries of human milk oligosaccharides against lectins using CaR-ESI-MS. Analyst, The, 2018, 143, 536-548.	3.5	17
101	Identifying Specific Small-Molecule Interactions Using Electrospray Ionization Mass Spectrometry. Analytical Chemistry, 2011, 83, 5160-5167.	6.5	16
102	Electrospray Ionization-Induced Protein Unfolding. Journal of the American Society for Mass Spectrometry, 2012, 23, 2122-2131.	2.8	16
103	Determination of Proteinâ€“Oligosaccharide Binding by Nanoelectrospray Fourier-Transform Ion Cyclotron Resonance Mass Spectrometry. Methods in Enzymology, 2003, 362, 376-397.	1.0	15
104	Dissociation of Multisubunit Proteinâ€“Ligand Complexes in the Gas Phase. Evidence for Ligand Migration. Journal of the American Society for Mass Spectrometry, 2013, 24, 1573-1583.	2.8	15
105	Equivalency of Binding Sites in Proteinâ^'Ligand Complexes Revealed by Time-Resolved Tandem Mass Spectrometry. Journal of the American Chemical Society, 2007, 129, 8674-8675.	13.7	14
106	Carbohydrateâ€“Lipid Interactions: Affinities of Methylmannose Polysaccharides for Lipids in Aqueous Solution. Chemistry - A European Journal, 2012, 18, 12059-12067.	3.3	14
107	Investigating the Influence of Membrane Composition on Proteinâ€“Glycolipid Binding Using Nanodiscs and Proxy Ligand Electrospray Ionization Mass Spectrometry. Analytical Chemistry, 2017, 89, 9330-9338.	6.5	14
108	Genetically-encoded fragment-based discovery (GE-FBD) of glycopeptide ligands with differential selectivity for antibodies related to mycobacterial infections. Organic and Biomolecular Chemistry, 2018, 16, 223-227.	2.8	14

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109	Quantifying the binding stoichiometry and affinity of histo-blood group antigen oligosaccharides for human noroviruses. Glycobiology, 2018, 28, 488-498.	2.5	14
110	Sliding Window Adduct Removal Method (SWARM) for Enhanced Electrospray Ionization Mass Spectrometry Binding Data. Journal of the American Society for Mass Spectrometry, 2019, 30, 1446-1454.	2.8	14
111	An Inactive Dispersin B Probe for Monitoring PNAG Production in Biofilm Formation. ACS Chemical Biology, 2020, 15, 1204-1211.	3.4	13
112	Blackbody Infrared Radiative Dissociation of Protonated Oligosaccharides. Journal of the American Society for Mass Spectrometry, 2011, 22, 2171-2178.	2.8	12
113	From alpha to beta: identification of amino acids required for the Nâ€acetyllactosamineâ€specific lectinâ€like activity of bundlin. Molecular Microbiology, 2009, 72, 859-868.	2.5	11
114	Detecting Proteinâ€“Glycolipid Interactions Using Glycomicelles and CaR-ESI-MS. Journal of the American Society for Mass Spectrometry, 2016, 27, 1878-1886.	2.8	11
115	Mycobacteriophage cell binding proteins for the capture of mycobacteria. Bacteriophage, 2014, 4, e960346.	1.9	10
116	Multipronged ESIâ€“MS Approach for Studying Glycan-Binding Protein Interactions with Glycoproteins. Analytical Chemistry, 2019, 91, 2140-2147.	6.5	10
117	Thermal decomposition of multiply charged T-rich oligonucleotide anions in the gas phase. Influence of internal solvation on the arrhenius parameters for neutral base loss. Journal of the American Society for Mass Spectrometry, 2006, 17, 1229-1238.	2.8	9
118	Mapping Proteinâ€“Ligand Interactions in the Gas Phase Using a Functional Group Replacement Strategy. Comparison of CID and BIRD Activation Methods. Journal of the American Society for Mass Spectrometry, 2013, 24, 988-996.	2.8	8
119	Detecting Proteinâ€“Glycolipid Interactions Using CaR-ESI-MS and Model Membranes: Comparison of Pre-loaded and Passively Loaded Picodiscs. Journal of the American Society for Mass Spectrometry, 2018, 29, 1493-1504.	2.8	8
120	Probing Heteromultivalent Proteinâ€“Glycosphingolipid Interactions using Native Mass Spectrometry and Nanodiscs. Analytical Chemistry, 2020, 92, 3923-3931.	6.5	8
121	Deuterium Kinetic Isotope Effects on the Dissociation of a Proteinâ€“Fatty Acid Complex in the Gas Phase. Journal of the American Chemical Society, 2012, 134, 5931-5937.	13.7	7
122	Screening Oligosaccharide Libraries against Lectins Using the Proxy Protein Electrospray Ionization Mass Spectrometry Assay. Analytical Chemistry, 2016, 88, 8224-8231.	6.5	7
123	Delivering Transmembrane Peptide Complexes to the Gas Phase Using Nanodiscs and Electrospray Ionization. Journal of the American Society for Mass Spectrometry, 2017, 28, 2054-2065.	2.8	7
124	Synthetic polyprenol-pyrophosphate linked oligosaccharides are efficient substrates for mycobacterial galactan biosynthetic enzymes. Organic and Biomolecular Chemistry, 2018, 16, 1939-1957.	2.8	7
125	Effects of single amino acid substitution on the dissociation of multiply charged multiprotein complexes in the gas phase. Journal of the American Society for Mass Spectrometry, 2007, 18, 688-692.	2.8	6
126	CUPRA-ZYME: An Assay for Measuring Carbohydrate-Active Enzyme Activities, Pathways, and Substrate Specificities. Analytical Chemistry, 2020, 92, 3228-3236.	6.5	6

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127	Magnetic field assisted programming of particle shapes and patterns. Soft Matter, 2015, 11, 7151-7158.	2.7	5
128	Structure and Stability of Carbohydrateâ€“Lipid Interactions. Methylmannose Polysaccharideâ€“Fatty Acid Complexes. ChemBioChem, 2016, 17, 1571-1578.	2.6	5
129	Localizing Carbohydrate Binding Sites in Proteins Using Hydrogen/Deuterium Exchange Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2016, 27, 83-90.	2.8	5
130	Stabilizing protein-ligand complexes in ESIâ€“MS using solution additives: Comparing the effects of amino acids and imidazole. International Journal of Mass Spectrometry, 2017, 420, 2-8.	1.5	5
131	Evaluation of a focused virtual library of heterobifunctional ligands for Clostridium difficile toxins. Organic and Biomolecular Chemistry, 2015, 13, 283-298.	2.8	4
132	Screening Anti-Cancer Drugs against Tubulin using Catch-and-Release Electrospray Ionization Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2016, 27, 876-885.	2.8	4
133	Influence of labeling on the glycan affinities and specificities of glycan-binding proteins. A case study involving a C-terminal fragment of human galectin-3. Glycobiology, 2020, 30, 49-57.	2.5	4
134	Structural and binding characterization of the LacdiNAc-specific adhesin (LabA; HopD) exodomain from Helicobacter pylori. Current Research in Structural Biology, 2021, 3, 19-29.	2.2	4
135	Mass Spectrometry-Based Shotgun Glycomics Using Labeled Glycan Libraries. Analytical Chemistry, 2022, 94, 4997-5005.	6.5	4
136	Energetics of Intermolecular Hydrogen Bonds in a Hydrophobic Protein Cavity. Journal of the American Society for Mass Spectrometry, 2014, 25, 742-750.	2.8	3
137	Neoglycolipids as Glycosphingolipid Surrogates for Protein Binding Studies Using Nanodiscs and Native Mass Spectrometry. Analytical Chemistry, 2020, 92, 14189-14196.	6.5	3
138	CRISPR-Click Enables Dual-Gene Editing with Modular Synthetic sgRNAs. Bioconjugate Chemistry, 2022, 33, 858-868.	3.6	2
139	Fluorine Bonding Enhances the Energetics of Protein-Lipid Binding in the Gas Phase. Journal of the American Society for Mass Spectrometry, 2014, 25, 751-757.	2.8	1
140	Quantifying Carbohydrate-Active Enzyme Activity with Glycoprotein Substrates Using Electrospray Ionization Mass Spectrometry and Center-of-Mass Monitoring. Analytical Chemistry, 2021, 93, 15262-15270.	6.5	1