

John S Klassen

List of Publications by Year in descending order

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140
papers

5,556
citations

70961

41
h-index

106150

65
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146
all docs

146
docs citations

146
times ranked

4529
citing authors

#	ARTICLE	IF	CITATIONS
1	Reliable Determinations of Protein–Ligand Interactions by Direct ESI-MS Measurements. Are We There Yet?. <i>Journal of the American Society for Mass Spectrometry</i> , 2012, 23, 431-441.	1.2	204
2	Thermal Decomposition of a Gaseous Multiprotein Complex Studied by Blackbody Infrared Radiative Dissociation. Investigating the Origin of the Asymmetric Dissociation Behavior. <i>Analytical Chemistry</i> , 2001, 73, 4647-4661.	3.2	172
3	Method for Distinguishing Specific from Nonspecific Protein–Ligand Complexes in Nano electrospray Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2006, 78, 3010-3018.	3.2	156
4	Activation Energies for Dissociation of Double Strand Oligonucleotide Anions: Evidence for Watson–Crick Base Pairing in Vacuo. <i>Journal of the American Chemical Society</i> , 1998, 120, 9605-9613.	6.6	154
5	Influence of Solution and Gas Phase Processes on Protein–Carbohydrate Binding Affinities Determined by Nano electrospray Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. <i>Analytical Chemistry</i> , 2003, 75, 4945-4955.	3.2	154
6	Sialic acid-containing glycolipids mediate binding and viral entry of SARS-CoV-2. <i>Nature Chemical Biology</i> , 2022, 18, 81-90.	3.9	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. <i>The Journal of Physical Chemistry</i> , 1996, 100, 14218-14227.	2.9	136
8	Functional Characterization of Bacterial Oligosaccharyltransferases Involved in O-Linked Protein Glycosylation. <i>Journal of Bacteriology</i> , 2007, 189, 8088-8098.	1.0	136
9	Collision-Induced Dissociation Threshold Energies of Protonated Glycine, Glycinamide, and Some Related Small Peptides and Peptide Amino Amides. <i>Journal of the American Chemical Society</i> , 1997, 119, 6552-6563.	6.6	122
10	The Peptidisc, a simple method for stabilizing membrane proteins in detergent-free solution. <i>ELife</i> , 2018, 7, .	2.8	119
11	Optogenetic control with a photocleavable protein, PhoCl. <i>Nature Methods</i> , 2017, 14, 391-394.	9.0	117
12	Hydrophobic Protein–Ligand Interactions Preserved in the Gas Phase. <i>Journal of the American Chemical Society</i> , 2009, 131, 15980-15981.	6.6	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. <i>Journal of the American Chemical Society</i> , 1995, 117, 10563-10571.	6.6	88
14	Hydration of Gas-Phase Gramicidin S ($M + 2H$) Ions Formed by Electrospray: The Transition From Solution to Gas-Phase Structure. <i>Journal of the American Society for Mass Spectrometry</i> , 1997, 8, 565-568.	1.2	82
15	Method for Stabilizing Protein–Ligand Complexes in Nano electrospray Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2007, 79, 416-425.	3.2	80
16	Ligand Specificity of CS-35, a Monoclonal Antibody That Recognizes Mycobacterial Lipoarabinomannan: A Model System for Oligofuranoside–Protein Recognition. <i>Journal of the American Chemical Society</i> , 2007, 129, 10489-10502.	6.6	77
17	Hydration of gas-phase ions formed by electrospray ionization. <i>Journal of the American Society for Mass Spectrometry</i> , 1999, 10, 958-968.	1.2	74
18	Trapping and characterization of covalent intermediates of mutant retaining glycosyltransferases. <i>Glycobiology</i> , 2011, 21, 547-552.	1.3	70

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19	Determination of Protein-Ligand Association Thermochemistry Using Variable-Temperature Nanoelectrospray Mass Spectrometry. <i>Journal of the American Chemical Society</i> , 2004, 126, 4786-4787.	6.6	67
20	Genetically Encoded Fragment-Based Discovery of Glycopeptide Ligands for Carbohydrate-Binding Proteins. <i>Journal of the American Chemical Society</i> , 2015, 137, 5248-5251.	6.6	67
21	Nonspecific Protein-Carbohydrate Complexes Produced by Nanoelectrospray Ionization. Factors Influencing Their Formation and Stability. <i>Analytical Chemistry</i> , 2005, 77, 3060-3071.	3.2	66
22	Droplet Electrospray Mass Spectrometry. <i>Analytical Chemistry</i> , 1994, 66, 3944-3949.	3.2	65
23	Gas Phase Stabilization of Noncovalent Protein Complexes Formed by Electrospray Ionization. <i>Analytical Chemistry</i> , 2009, 81, 7801-7806.	3.2	63
24	Discovery of Light-Responsive Ligands through Screening of a Light-Responsive Genetically Encoded Library. <i>ACS Chemical Biology</i> , 2014, 9, 443-450.	1.6	63
25	Thermal Dissociation of Protein-Oligosaccharide Complexes in the Gas Phase: Mapping the Intrinsic Intermolecular Interactions. <i>Journal of the American Chemical Society</i> , 2002, 124, 5902-5913.	6.6	61
26	Functional properties of the carboxy-terminal host cell-binding domains of the two toxins, TcdA and TcdB, expressed by <i>Clostridium difficile</i> . <i>Glycobiology</i> , 2008, 18, 698-706.	1.3	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. <i>Glycobiology</i> , 2001, 11, 605-611.	1.3	58
28	Quantifying Protein-Fatty Acid Interactions Using Electrospray Ionization Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2011, 22, 310-318.	1.2	56
29	Gangliosides are Ligands for Human Noroviruses. <i>Journal of the American Chemical Society</i> , 2014, 136, 12631-12637.	6.6	56
30	<i>P. aeruginosa</i> SGNH Hydrolase-Like Proteins AlgJ and AlgX Have Similar Topology but Separate and Distinct Roles in Alginate Acetylation. <i>PLoS Pathogens</i> , 2014, 10, e1004334.	2.1	54
31	Determination of Ion-Solvent Equilibria in the Gas Phase. Hydration of Diprotonated Diamines and Bis(trimethylammonium) Alkanes. <i>Journal of the American Chemical Society</i> , 1996, 118, 12437-12442.	6.6	52
32	The bundlin pilin protein of enteropathogenic <i>Escherichia coli</i> is an N-acetyllactosamine-specific lectin. <i>Cellular Microbiology</i> , 2007, 10, 070816152918004-???	1.1	51
33	Blackbody infrared radiative dissociation of oligonucleotide anions. <i>Journal of the American Society for Mass Spectrometry</i> , 1998, 9, 1117-1124.	1.2	48
34	Applications of a Catch and Release Electrospray Ionization Mass Spectrometry Assay for Carbohydrate Library Screening. <i>Analytical Chemistry</i> , 2012, 84, 50-58.	3.2	48
35	Method for Identifying Nonspecific Protein-Protein Interactions in Nanoelectrospray Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2007, 79, 8301-8311.	3.2	47
36	Protein-Glycosphingolipid Interactions Revealed Using Catch-and-Release Mass Spectrometry. <i>Analytical Chemistry</i> , 2012, 84, 7618-7621.	3.2	47

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37	Measuring Positive Cooperativity Using the Direct ESI-MS Assay. Cholera Toxin B Subunit Homopentamer Binding to GM1 Pentasaccharide. <i>Journal of the American Society for Mass Spectrometry</i> , 2014, 25, 104-110.	1.2	47
38	Influence of coulombic repulsion on the dissociation pathways and energetics of multiprotein complexes in the gas phase. <i>Journal of the American Society for Mass Spectrometry</i> , 2007, 18, 617-631.	1.2	46
39	Silent Encoding of Chemical Post-Translational Modifications in Phage-Displayed Libraries. <i>Journal of the American Chemical Society</i> , 2016, 138, 32-35.	6.6	46
40	A versatile soluble siglec scaffold for sensitive and quantitative detection of glycan ligands. <i>Nature Communications</i> , 2020, 11, 5091.	5.8	45
41	The small RbcS-like domains of the $\hat{\Gamma}^2$ -carboxysome structural protein CcmM bind RubisCO at a site distinct from that binding the RbcS subunit. <i>Journal of Biological Chemistry</i> , 2019, 294, 2593-5195.	1.6	44
42	Determination of ion-ligand bond energies and ion fragmentation energies of electrospray-produced ions by collision-induced dissociation threshold measurements. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1995, 141, 217-228.	1.9	43
43	Substrate Recognition of the Membrane-Associated Sialidase NEU3 Requires a Hydrophobic Aglycone. <i>Biochemistry</i> , 2011, 50, 6753-6762.	1.2	43
44	Structural Basis for Antibody Recognition in the Receptor-binding Domains of Toxins A and B from <i>Clostridium difficile</i> . <i>Journal of Biological Chemistry</i> , 2014, 289, 2331-2343.	1.6	43
45	Dissociation energies of deoxyribose nucleotide dimer anions measured using blackbody infrared radiative dissociation. <i>Journal of the American Society for Mass Spectrometry</i> , 1999, 10, 1095-1104.	1.2	42
46	Affinities of Shiga toxins 1 and 2 for univalent and oligovalent Pk-trisaccharide analogs measured by electrospray ionization mass spectrometry. <i>Glycobiology</i> , 2007, 17, 1127-1137.	1.3	42
47	Nonspecific interactions between proteins and charged biomolecules in electrospray ionization mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2010, 21, 472-481.	1.2	42
48	Quantifying labile protein-ligand interactions using electrospray ionization mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2010, 21, 1893-1899.	1.2	42
49	Binding of <i>Clostridium difficile</i> toxins to human milk oligosaccharides. <i>Glycobiology</i> , 2011, 21, 1217-1227.	1.3	40
50	Quantifying Ligand Binding to Large Protein Complexes Using Electrospray Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2012, 84, 3867-3870.	3.2	40
51	Dissociation Kinetics of the Streptavidin-Biotin Interaction Measured Using Direct Electrospray Ionization Mass Spectrometry Analysis. <i>Journal of the American Society for Mass Spectrometry</i> , 2013, 24, 49-56.	1.2	40
52	Temperature-dependent cooperativity in donor-acceptor substrate binding to the human blood group glycosyltransferases. <i>Glycobiology</i> , 2008, 18, 587-592.	1.3	39
53	Catalytic Mechanism and Mode of Action of the Periplasmic Alginate Epimerase AlgG. <i>Journal of Biological Chemistry</i> , 2014, 289, 6006-6019.	1.6	39
54	Direct Quantification of Protein-Metal Ion Affinities by Electrospray Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2010, 82, 2170-2174.	3.2	38

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55	Structural and biochemical characterization of the exopolysaccharide deacetylase Agd3 required for <i>Aspergillus fumigatus</i> biofilm formation. <i>Nature Communications</i> , 2020, 11, 2450.	5.8	38
56	Thermal dissociation of the protein homodimer ecotin in the gas phase. <i>Journal of the American Society for Mass Spectrometry</i> , 2002, 13, 1432-1442.	1.2	37
57	Exploiting Bacterial Glycosylation Machineries for the Synthesis of a Lewis Antigen-containing Glycoprotein. <i>Journal of Biological Chemistry</i> , 2011, 286, 37887-37894.	1.6	37
58	Nanodiscs and Electrospray Ionization Mass Spectrometry: A Tool for Screening Glycolipids Against Proteins. <i>Analytical Chemistry</i> , 2014, 86, 5271-5277.	3.2	37
59	Recognition of human milk oligosaccharides by bacterial exotoxins. <i>Glycobiology</i> , 2015, 25, 845-854.	1.3	37
60	Bioactive Recognition Sites May Not Be Energetically Preferred in Protein-Carbohydrate Complexes in the Gas Phase. <i>Journal of the American Chemical Society</i> , 2003, 125, 13630-13631.	6.6	34
61	Blackbody infrared radiative dissociation of nonspecific protein-carbohydrate complexes produced by nanoelectrospray ionization: The nature of the noncovalent interactions. <i>Journal of the American Society for Mass Spectrometry</i> , 2005, 16, 1583-1594.	1.2	34
62	Comparative study of substrate and product binding to the human ABO(H) blood group glycosyltransferases. <i>Glycobiology</i> , 2009, 19, 1224-1234.	1.3	34
63	Affinities of recombinant norovirus P dimers for human blood group antigens. <i>Glycobiology</i> , 2013, 23, 276-285.	1.3	34
64	Tulane virus recognizes sialic acids as cellular receptors. <i>Scientific Reports</i> , 2015, 5, 11784.	1.6	33
65	Human Milk Oligosaccharide Specificities of Human Galectins. Comparison of Electrospray Ionization Mass Spectrometry and Glycan Microarray Screening Results. <i>Analytical Chemistry</i> , 2017, 89, 4914-4921.	3.2	33
66	Elucidating the Intermolecular Interactions within a Desolvated Protein-Ligand Complex. An Experimental and Computational Study. <i>Journal of the American Chemical Society</i> , 2008, 130, 1214-1226.	6.6	32
67	Quantifying Carbohydrate-Protein Interactions by Electrospray Ionization Mass Spectrometry Analysis. <i>Biochemistry</i> , 2012, 51, 4244-4253.	1.2	31
68	Carbohydrate Sulfation As a Mechanism for Fine-Tuning Siglec Ligands. <i>ACS Chemical Biology</i> , 2021, 16, 2673-2689.	1.6	31
69	Chirality recognition of the protonated serine dimer and octamer by infrared multiphoton dissociation spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 1873-1886.	1.3	30
70	Protein-Glycolipid Interactions Studied in Vitro Using ESI-MS and Nanodiscs: Insights into the Mechanisms and Energetics of Binding. <i>Analytical Chemistry</i> , 2015, 87, 4888-4896.	3.2	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. <i>Journal of the American Society for Mass Spectrometry</i> , 2005, 16, 1957-1968.	1.2	29
72	Bioengineered Norovirus S ₆₀ Nanoparticles as a Multifunctional Vaccine Platform. <i>ACS Nano</i> , 2018, 12, 10665-10682.	7.3	28

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73	Energetics of Lipid Binding in a Hydrophobic Protein Cavity. <i>Journal of the American Chemical Society</i> , 2012, 134, 3054-3060.	6.6	27
74	Picodiscs for Facile Protein-Glycolipid Interaction Analysis. <i>Analytical Chemistry</i> , 2015, 87, 4402-4408.	3.2	27
75	Human Neuraminidase Isoenzymes Show Variable Activities for 9-O-Acetyl-sialoside Substrates. <i>ACS Chemical Biology</i> , 2018, 13, 922-932.	1.6	27
76	An Entropically Efficient Supramolecular Inhibition Strategy for Shiga Toxins. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 672-676.	7.2	26
77	Evidence that Water Can Reduce the Kinetic Stability of Protein-Hydrophobic Ligand Interactions. <i>Journal of the American Chemical Society</i> , 2010, 132, 17658-17660.	6.6	26
78	Retention of Bioactive Ligand Conformation in a Gaseous Protein-Trisaccharide Complex. <i>Journal of the American Chemical Society</i> , 2002, 124, 13980-13981.	6.6	25
79	Evidence for the Preservation of Specific Intermolecular Interactions in Gaseous Protein-Oligosaccharide Complexes. <i>Journal of the American Chemical Society</i> , 2002, 124, 9340-9341.	6.6	25
80	Submicron Emitters Enable Reliable Quantification of Weak Protein-Glycan Interactions by ESI-MS. <i>Analytical Chemistry</i> , 2021, 93, 4231-4239.	3.2	25
81	Arrhenius activation parameters for the loss of neutral nucleobases from deprotonated oligonucleotide anions in the gas phase. <i>Journal of the American Society for Mass Spectrometry</i> , 2004, 15, 55-64.	1.2	24
82	Identifying nonspecific ligand binding in electrospray ionization mass spectrometry using the reporter molecule method. <i>Journal of the American Society for Mass Spectrometry</i> , 2009, 20, 1242-1250.	1.2	24
83	High-Throughput Label- and Immobilization-Free Screening of Human Milk Oligosaccharides Against Lectins. <i>Analytical Chemistry</i> , 2017, 89, 8713-8722.	3.2	24
84	A quantitative, high-throughput method identifies protein-glycan interactions via mass spectrometry. <i>Communications Biology</i> , 2019, 2, 268.	2.0	24
85	Gas Phase Ion-Molecule Equilibria Involving Ions Produced by Electrospray. Hydration of Doubly Protonated Diamines. <i>Journal of the American Chemical Society</i> , 1994, 116, 12075-12076.	6.6	23
86	Partitioning of Solvent Effects and Intrinsic Interactions in Biological Recognition. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 4183-4186.	7.2	23
87	Screening Carbohydrate Libraries for Protein Interactions Using the Direct ESI-MS Assay. Applications to Libraries of Unknown Concentration. <i>Journal of the American Society for Mass Spectrometry</i> , 2014, 25, 1908-1916.	1.2	23
88	Affinities of human histo-blood group antigens for norovirus capsid protein complexes. <i>Glycobiology</i> , 2015, 25, 170-180.	1.3	23
89	Kinetic Stability of the Streptavidin-Biotin Interaction Enhanced in the Gas Phase. <i>Journal of the American Chemical Society</i> , 2012, 134, 16586-16596.	6.6	22
90	Identifying Carbohydrate Ligands of a Norovirus P Particle using a Catch and Release Electrospray Ionization Mass Spectrometry Assay. <i>Journal of the American Society for Mass Spectrometry</i> , 2014, 25, 111-119.	1.2	22

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91	Quantifying Protein Interactions with Isomeric Carbohydrate Ligands Using a Catch and Release Electrospray Ionization-Mass Spectrometry Assay. <i>Analytical Chemistry</i> , 2013, 85, 7637-7644.	3.2	21
92	Influence of Sulfolane on ESI-MS Measurements of Protein-Ligand Affinities. <i>Journal of the American Society for Mass Spectrometry</i> , 2016, 27, 498-506.	1.2	21
93	Quantifying Protein-Carbohydrate Interactions Using Liquid Sample Desorption Electrospray Ionization Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2015, 26, 98-106.	1.2	20
94	Screening Glycolipids Against Proteins in Vitro Using Picodiscs and Catch-and-Release Electrospray Ionization-Mass Spectrometry. <i>Analytical Chemistry</i> , 2016, 88, 4742-4750.	3.2	20
95	Characterizing the Size and Composition of Saposin A Lipoprotein Picodiscs. <i>Analytical Chemistry</i> , 2016, 88, 9524-9531.	3.2	20
96	Mass Spectrometry-Based Shotgun Glycomics for Discovery of Natural Ligands of Glycan-Binding Proteins. <i>Analytical Chemistry</i> , 2020, 92, 14012-14020.	3.2	20
97	Quantifying Protein-Ligand Interactions by Direct Electrospray Ionization-MS Analysis: Evidence of Nonuniform Response Factors Induced by High Molecular Weight Molecules and Complexes. <i>Analytical Chemistry</i> , 2013, 85, 8919-8922.	3.2	19
98	Crystal structures of human lysosomal EPDR1 reveal homology with the superfamily of bacterial lipoprotein transporters. <i>Communications Biology</i> , 2019, 2, 52.	2.0	18
99	Fucosylated Human Milk Oligosaccharide Foraging within the Species <i>Bifidobacterium pseudocatenulatum</i> Is Driven by Glycosyl Hydrolase Content and Specificity. <i>Applied and Environmental Microbiology</i> , 2022, 88, AEM0170721.	1.4	18
100	Screening natural libraries of human milk oligosaccharides against lectins using CaR-ESI-MS. <i>Analyst</i> , 2018, 143, 536-548.	1.7	17
101	Identifying Specific Small-Molecule Interactions Using Electrospray Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2011, 83, 5160-5167.	3.2	16
102	Electrospray Ionization-Induced Protein Unfolding. <i>Journal of the American Society for Mass Spectrometry</i> , 2012, 23, 2122-2131.	1.2	16
103	Determination of Protein-Oligosaccharide Binding by Nanoelectrospray Fourier-Transform Ion Cyclotron Resonance Mass Spectrometry. <i>Methods in Enzymology</i> , 2003, 362, 376-397.	0.4	15
104	Dissociation of Multisubunit Protein-Ligand Complexes in the Gas Phase. Evidence for Ligand Migration. <i>Journal of the American Society for Mass Spectrometry</i> , 2013, 24, 1573-1583.	1.2	15
105	Equivalency of Binding Sites in Protein-Ligand Complexes Revealed by Time-Resolved Tandem Mass Spectrometry. <i>Journal of the American Chemical Society</i> , 2007, 129, 8674-8675.	6.6	14
106	Carbohydrate-Lipid Interactions: Affinities of Methylmannose Polysaccharides for Lipids in Aqueous Solution. <i>Chemistry - A European Journal</i> , 2012, 18, 12059-12067.	1.7	14
107	Investigating the Influence of Membrane Composition on Protein-Glycolipid Binding Using Nanodiscs and Proxy Ligand Electrospray Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2017, 89, 9330-9338.	3.2	14
108	Genetically-encoded fragment-based discovery (GE-FBD) of glycopeptide ligands with differential selectivity for antibodies related to mycobacterial infections. <i>Organic and Biomolecular Chemistry</i> , 2018, 16, 223-227.	1.5	14

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109	Quantifying the binding stoichiometry and affinity of histo-blood group antigen oligosaccharides for human noroviruses. <i>Glycobiology</i> , 2018, 28, 488-498.	1.3	14
110	Sliding Window Adduct Removal Method (SWARM) for Enhanced Electrospray Ionization Mass Spectrometry Binding Data. <i>Journal of the American Society for Mass Spectrometry</i> , 2019, 30, 1446-1454.	1.2	14
111	An Inactive Dispersin B Probe for Monitoring PNAG Production in Biofilm Formation. <i>ACS Chemical Biology</i> , 2020, 15, 1204-1211.	1.6	13
112	Blackbody Infrared Radiative Dissociation of Protonated Oligosaccharides. <i>Journal of the American Society for Mass Spectrometry</i> , 2011, 22, 2171-2178.	1.2	12
113	From alpha to beta: identification of amino acids required for the <i>N</i> -acetyllactosamine-specific lectin-like activity of bundlin. <i>Molecular Microbiology</i> , 2009, 72, 859-868.	1.2	11
114	Detecting Protein-Glycolipid Interactions Using Glycomicelles and CaR-ESI-MS. <i>Journal of the American Society for Mass Spectrometry</i> , 2016, 27, 1878-1886.	1.2	11
115	Mycobacteriophage cell binding proteins for the capture of mycobacteria. <i>Bacteriophage</i> , 2014, 4, e960346.	1.9	10
116	Multipronged ESI-MS Approach for Studying Glycan-Binding Protein Interactions with Glycoproteins. <i>Analytical Chemistry</i> , 2019, 91, 2140-2147.	3.2	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. <i>Journal of the American Society for Mass Spectrometry</i> , 2006, 17, 1229-1238.	1.2	9
118	Mapping Protein-Ligand Interactions in the Gas Phase Using a Functional Group Replacement Strategy. Comparison of CID and BIRD Activation Methods. <i>Journal of the American Society for Mass Spectrometry</i> , 2013, 24, 988-996.	1.2	8
119	Detecting Protein-Glycolipid Interactions Using CaR-ESI-MS and Model Membranes: Comparison of Pre-loaded and Passively Loaded Picodiscs. <i>Journal of the American Society for Mass Spectrometry</i> , 2018, 29, 1493-1504.	1.2	8
120	Probing Heteromultivalent Protein-Glycosphingolipid Interactions using Native Mass Spectrometry and Nanodiscs. <i>Analytical Chemistry</i> , 2020, 92, 3923-3931.	3.2	8
121	Deuterium Kinetic Isotope Effects on the Dissociation of a Protein-Fatty Acid Complex in the Gas Phase. <i>Journal of the American Chemical Society</i> , 2012, 134, 5931-5937.	6.6	7
122	Screening Oligosaccharide Libraries against Lectins Using the Proxy Protein Electrospray Ionization Mass Spectrometry Assay. <i>Analytical Chemistry</i> , 2016, 88, 8224-8231.	3.2	7
123	Delivering Transmembrane Peptide Complexes to the Gas Phase Using Nanodiscs and Electrospray Ionization. <i>Journal of the American Society for Mass Spectrometry</i> , 2017, 28, 2054-2065.	1.2	7
124	Synthetic polyprenol-pyrophosphate linked oligosaccharides are efficient substrates for mycobacterial galactan biosynthetic enzymes. <i>Organic and Biomolecular Chemistry</i> , 2018, 16, 1939-1957.	1.5	7
125	Effects of single amino acid substitution on the dissociation of multiply charged multiprotein complexes in the gas phase. <i>Journal of the American Society for Mass Spectrometry</i> , 2007, 18, 688-692.	1.2	6
126	CUPRA-ZYME: An Assay for Measuring Carbohydrate-Active Enzyme Activities, Pathways, and Substrate Specificities. <i>Analytical Chemistry</i> , 2020, 92, 3228-3236.	3.2	6

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127	Magnetic field assisted programming of particle shapes and patterns. <i>Soft Matter</i> , 2015, 11, 7151-7158.	1.2	5
128	Structure and Stability of Carbohydrate-Lipid Interactions. Methylmannose Polysaccharide-Fatty Acid Complexes. <i>ChemBioChem</i> , 2016, 17, 1571-1578.	1.3	5
129	Localizing Carbohydrate Binding Sites in Proteins Using Hydrogen/Deuterium Exchange Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2016, 27, 83-90.	1.2	5
130	Stabilizing protein-ligand complexes in ESI-MS using solution additives: Comparing the effects of amino acids and imidazole. <i>International Journal of Mass Spectrometry</i> , 2017, 420, 2-8.	0.7	5
131	Evaluation of a focused virtual library of heterobifunctional ligands for <i>Clostridium difficile</i> toxins. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 283-298.	1.5	4
132	Screening Anti-Cancer Drugs against Tubulin using Catch-and-Release Electrospray Ionization Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2016, 27, 876-885.	1.2	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. <i>Glycobiology</i> , 2020, 30, 49-57.	1.3	4
134	Structural and binding characterization of the LacdiNac-specific adhesin (LabA; HopD) exodomain from <i>Helicobacter pylori</i> . <i>Current Research in Structural Biology</i> , 2021, 3, 19-29.	1.1	4
135	Mass Spectrometry-Based Shotgun Glycomics Using Labeled Glycan Libraries. <i>Analytical Chemistry</i> , 2022, 94, 4997-5005.	3.2	4
136	Energetics of Intermolecular Hydrogen Bonds in a Hydrophobic Protein Cavity. <i>Journal of the American Society for Mass Spectrometry</i> , 2014, 25, 742-750.	1.2	3
137	Neoglycolipids as Glycosphingolipid Surrogates for Protein Binding Studies Using Nanodiscs and Native Mass Spectrometry. <i>Analytical Chemistry</i> , 2020, 92, 14189-14196.	3.2	3
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140	Quantifying Carbohydrate-Active Enzyme Activity with Glycoprotein Substrates Using Electrospray Ionization Mass Spectrometry and Center-of-Mass Monitoring. <i>Analytical Chemistry</i> , 2021, 93, 15262-15270.	3.2	1