Joseph Zaia

List of Publications by Year
in descending order

164 papers	8,596 citations	36271 51 h-index	53190 85 g-index
177 all docs	177 docs citations	177 times ranked	7420 citing authors

#	Article	IF	Citations
1	Mass spectrometry methods for analysis of extracellular matrix components in neurological diseases. Mass Spectrometry Reviews, 2023, 42, 1848-1875.	2.8	4
2	Methods to improve quantitative glycoprotein coverage from bottomâ€up LCâ€MS data. Mass Spectrometry Reviews, 2022, 41, 922-937.	2.8	11
3	Influence of saccharide modifications on heparin lyase III substrate specificities. Glycobiology, 2022, 32, 208-217.	1.3	3
4	Resolving Heparan Sulfate Oligosaccharide Positional Isomers Using Hydrophilic Interaction Liquid Chromatography-Cyclic Ion Mobility Mass Spectrometry. Analytical Chemistry, 2022, 94, 2366-2374.	3.2	6
5	Matrisome changes in Parkinsonâ€™s disease. Analytical and Bioanalytical Chemistry, 2022, 414, 3005-3015.	1.9	14
6	The minimum information required for a glycomics experiment (MIRAGE): reporting guidelines for capillary electrophoresis. Glycobiology, 2022, 32, 580-587.	1.3	2
7	In-Depth Matrisome and Glycoproteomic Analysis of Human Brain Glioblastoma Versus Control Tissue. Molecular and Cellular Proteomics, 2022, 21, 100216.	2.5	22
8	Measuring change in glycoprotein structure. Current Opinion in Structural Biology, 2022, 74, 102371.	2.6	3
9	Calculating Glycoprotein Similarities From Mass Spectrometric Data. Molecular and Cellular Proteomics, 2021, 20, 100028.	2.5	9
10	The 3- O -sulfation of heparan sulfate modulates protein binding and lyase degradation. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	44
11	Glycoproteomic Sample Processing, LCâ€MS, and Data Analysis Using GlycReSoft. Current Protocols, 2021, 1, e84.	1.3	5
12	Selective Inhibition of Heparan Sulphate and Not Chondroitin Sulphate Biosynthesis by a Small, Soluble Competitive Inhibitor. International Journal of Molecular Sciences, 2021, 22, 6988.	1.8	4
13	The Need for Community Standards to Enable Accurate Comparison of Glycoproteomics Algorithm Performance. Molecules, 2021, 26, 4757.	1.7	11
14	Analytical characterization of viruses. Analytical and Bioanalytical Chemistry, 2021, 413, 7145-7146.	1.9	0
15	GAGrank: Software for Glycosaminoglycan Sequence Ranking Using a Bipartite Graph Model. Molecular and Cellular Proteomics, 2021, 20, 100093.	2.5	1
16	Data-independent acquisition mass spectrometry for site-specific glycoproteomics characterization of SARS-CoV-2 spike protein. Analytical and Bioanalytical Chemistry, 2021, 413, 7305-7318.	1.9	17
17	Community evaluation of glycoproteomics informatics solutions reveals high-performance search strategies for serum glycopeptide analysis. Nature Methods, 2021, 18, 1304-1316.	9.0	74
18	NIST Interlaboratory Study on Glycosylation Analysis of Monoclonal Antibodies: Comparison of Results from Diverse Analytical Methods. Molecular and Cellular Proteomics, 2020, 19, 11-30.	2.5	87

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19	A Perspective on the Confident Comparison of Glycoprotein Site-Specific Glycosylation in Sample Cohorts. Biochemistry, 2020, 59, 3089-3097.	1.2	8
20	Toward Automatic and Comprehensive Glycan Characterization by Online PGC-LC-EED MS/MS. Analytical Chemistry, 2020, 92, 782-791.	3.2	42
21	A glycomics and proteomics study of aging and Parkinsonâ€™s disease in human brain. Scientific Reports, 2020, 10, 12804.	1.6	37
22	Native Mass Spectrometry Sheds Light on Formation of Deadly Heparin-PF4 Complexes. Biophysical Journal, 2020, 119, 1267.	0.2	1
23	Glycosylation of Serum Clusterin in Wild-Type Transthyretin-Associated (ATTRwt) Amyloidosis: A Study of Disease-Associated Compositional Features Using Mass Spectrometry Analyses. Biochemistry, 2020, 59, 4367-4378.	1.2	5
24	Multi-task learning sparse group lasso: a method for quantifying antigenicity of influenza A(H1N1) virus using mutations and variations in glycosylation of Hemagglutinin. BMC Bioinformatics, 2020, 21, 182.	1.2	10
25	Complexity and ultrastructure of infectious extracellular vesicles from cells infected by non-enveloped virus. Scientific Reports, 2020, 10, 7939.	1.6	26
26	Measuring Site-specific Glycosylation Similarity between Influenza a Virus Variants with Statistical Certainty. Molecular and Cellular Proteomics, 2020, 19, 1533-1545.	2.5	16
27	Proteomic and biological profiling of extracellular vesicles from Alzheimer's disease human brain tissues. Alzheimer's and Dementia, 2020, 16, 896-907.	0.4	105
28	Relative Retention Time Estimation Improves N-Glycopeptide Identifications by LCâ€“MS/MS. Journal of Proteome Research, 2020, 19, 2113-2121.	1.8	27
29	Serial in-solution digestion protocol for mass spectrometry-based glycomics and proteomics analysis. Molecular Omics, 2020, 16, 364-376.	1.4	16
30	Expression of the Extracellular Sulfatase SULF2 Affects Survival of Head and Neck Squamous Cell Carcinoma Patients. Frontiers in Oncology, 2020, 10, 582827.	1.3	9
31	Historical Overview of Integrated GAG-omics and Proteomics. Biology of Extracellular Matrix, 2020, , 83-99.	0.3	3
32	Sequencing Heparan Sulfate Using HILIC LC-NETD-MS/MS. Analytical Chemistry, 2019, 91, 11738-11746.	3.2	22
33	glypy: An Open Source Glycoinformatics Library. Journal of Proteome Research, 2019, 18, 3532-3537.	1.8	35
34	Structural studies of serum clusterin in ATTRwt amyloidosis. Amyloid: the International Journal of Experimental and Clinical Investigation: the Official Journal of the International Society of Amyloidosis, 2019, 26, 51-52.	1.4	1
35	Characterization of Glycosaminoglycans in Gaping and Intact Connective Tissues of Farmed Atlantic Salmon (Salmo salar) Fillets by Mass Spectrometry. ACS Omega, 2019, 4, 15337-15347.	1.6	9
36	On-slide tissue digestion for mass spectrometry based glycomic and proteomic profiling. MethodsX, 2019, 6, 2329-2347.	0.7	29

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37	psims - A Declarative Writer for mzML and mzIdentML for Python. Molecular and Cellular Proteomics, 2019, 18, 571-575.	2.5	11
38	Proteomics, Glycomics, and Glycoproteomics of Matrisome Molecules. Molecular and Cellular Proteomics, 2019, 18, 2138-2148.	2.5	38
39	Why Glycosylation Matters in Building a Better Flu Vaccine. Molecular and Cellular Proteomics, 2019, 18, 2348-2358.	2.5	54
40	Characterization and Quantification of Highly Sulfated Glycosaminoglycan Isomers by Gated-Trapped Ion Mobility Spectrometry Negative Electron Transfer Dissociation MS/MS. Analytical Chemistry, 2019, 91, 2994-3001.	3.2	53
41	Sensitive method for glycosaminoglycan analysis of tissue sections. Journal of Chromatography A, 2018, 1544, 41-48.	1.8	21
42	Software for Peak Finding and Elemental Composition Assignment for Glycosaminoglycan Tandem Mass Spectra. Molecular and Cellular Proteomics, 2018, 17, 1448-1456.	2.5	21
43	Comparison of Collisional and Electron-Based Dissociation Modes for Middle-Down Analysis of Multiply Glycosylated Peptides. Journal of the American Society for Mass Spectrometry, 2018, 29, 1075-1085.	1.2	36
44	Negative Electron Transfer Dissociation Sequencing of 3-O-Sulfation-Containing Heparan Sulfate Oligosaccharides. Journal of the American Society for Mass Spectrometry, 2018, 29, 1262-1272.	1.2	20
45	Imaging specific cellular glycan structures using glycosyltransferases via click chemistry. Glycobiology, 2018, 28, 69-79.	1.3	22
46	O2â€01â€02: CHARACTERIZATION OF HUMAN ALZHEIMER'S DISEASE BRAINâ€DERIVED EXOSOMES. Alzheimer's and Dementia, 2018, 14, P608.	0.4	1
47	Lectin-mediated binding and sialoglycans of porcine surfactant protein D synergistically neutralize influenza A virus. Journal of Biological Chemistry, 2018, 293, 10646-10662.	1.6	19
48	Deep Sequencing of Complex Proteoglycans: A Novel Strategy for High Coverage and Site-specific Identification of Glycosaminoglycan-linked Peptides. Molecular and Cellular Proteomics, 2018, 17, 1578-1590.	2.5	42
49	Application of network smoothing to glycan LC-MS profiling. Bioinformatics, 2018, 34, 3511-3518.	1.8	43
50	Focus on Mass Spectrometry in Glycobiology and Related Fields, Honoring Catherine E. Costello, Recipient of the 2017 ASMS Award for a Distinguished Contribution in Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2018, 29, 1061-1064.	1.2	0
51	Glycomic and Proteomic Changes in Aging Brain Nigrostriatal Pathway. Molecular and Cellular Proteomics, 2018, 17, 1778-1787.	2.5	27
52	The minimum information required for a glycomics experiment (MIRAGE) project: improving the standards for reporting glycan microarray-based data. Glycobiology, 2017, 27, 280-284.	1.3	69
53	Algorithms and design strategies towards automated glycoproteomics analysis. Mass Spectrometry Reviews, 2017, 36, 475-498.	2.8	82
54	Bioinformatics of glycosaminoglycans. Perspectives in Science, 2017, 11, 40-44.	0.6	5

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55	Microfluidic Capillary Electrophoresisâ€“Mass Spectrometry for Analysis of Monosaccharides, Oligosaccharides, and Glycopeptides. Analytical Chemistry, 2017, 89, 6645-6655.	3.2	95
56	Construction of a Database of Collision Cross Section Values for Glycopeptides, Glycans, and Peptides Determined by IM-MS. Analytical Chemistry, 2017, 89, 4452-4460.	3.2	55
57	Heparan sulfate: Resilience factor and therapeutic target for cocaine abuse. Scientific Reports, 2017, 7, 13931.	1.6	14
58	Use of an informed search space maximizes confidence of site-specific assignment of glycoprotein glycosylation. Analytical and Bioanalytical Chemistry, 2017, 409, 607-618.	1.9	36
59	Extracellular matrix proteomics in schizophrenia and Alzheimerâ€™s disease. Analytical and Bioanalytical Chemistry, 2017, 409, 379-394.	1.9	83
60	[O3â€“04â€“04]: COMPREHENSIVE CHARACTERIZATION OF HUMAN ALZHEIMER's DISEASE BRAINâ€DERIVED EXOSOMES. Alzheimer's and Dementia, 2017, 13, P907.	0.4	0
61	Nematodes join the family of chondroitin sulfate-synthesizing organisms: Identification of an active chondroitin sulfotransferase in Caenorhabditis elegans. Scientific Reports, 2016, 6, 34662.	1.6	15
62	Non-reducing end labeling of heparan sulfate via click chemistry and a high throughput ELISA assay for heparanase. Glycobiology, 2016, 27, cww130.	1.3	8
63	Complete Molecular Weight Profiling of Low-Molecular Weight Heparins Using Size Exclusion Chromatography-Ion Suppressor-High-Resolution Mass Spectrometry. Analytical Chemistry, 2016, 88, 10654-10660.	3.2	28
64	The minimum information required for a glycomics experiment (MIRAGE) project: sample preparation guidelines for reliable reporting of glycomics datasets. Glycobiology, 2016, 26, 907-910.	1.3	62
65	Phosphatidylethanolamine binding protein 4 (PEBP4) is a secreted protein and has multiple functions. Biochimica Et Biophysica Acta - Molecular Cell Research, 2016, 1863, 1682-1689.	1.9	23
66	Integrated Omics and Computational Glycobiology Reveal Structural Basis for Influenza A Virus Glycan Microheterogeneity and Host Interactions. Molecular and Cellular Proteomics, 2016, 15, 1895-1912.	2.5	85
67	Deciphering the mode of action of the processive polysaccharide modifying enzyme dermatan sulfate epimerase 1 by hydrogenâ€“deuterium exchange mass spectrometry. Chemical Science, 2016, 7, 1447-1456.	3.7	16
68	A review of methods for interpretation of glycopeptide tandem mass spectral data. Glycoconjugate Journal, 2016, 33, 285-296.	1.4	74
69	GlyTouCan 1.0 â€“ The international glycan structure repository. Nucleic Acids Research, 2016, 44, D1237-D1242.	6.5	83
70	Discovery of a Heparan Sulfate 3-O-Sulfation Specific Peeling Reaction. Analytical Chemistry, 2015, 87, 592-600.	3.2	35
71	Effects of restoring normoglycemia in type 1 diabetes on inflammatory profile and renal extracellular matrix structure after simultaneous pancreas and kidney transplantation. Diabetes Research and Clinical Practice, 2015, 107, 46-53.	1.1	13
72	Targeting Human Cancer by a Glycosaminoglycan Binding Malaria Protein. Cancer Cell, 2015, 28, 500-514.	7.7	169

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73	Oligosaccharide Substrate Preferences of Human Extracellular Sulfatase Sulf2 Using Liquid Chromatography-Mass Spectrometry Based Glycomics Approaches. PLoS ONE, 2014, 9, e105143.	1.1	4
74	Detecting O-GlcNAc using in vitro sulfation. Glycobiology, 2014, 24, 740-747.	1.3	11
75	MIRAGE: The minimum information required for a glycomics experiment. Glycobiology, 2014, 24, 402-406.	1.3	116
76	A Liquid Chromatography-Mass Spectrometry-based Approach to Characterize the Substrate Specificity of Mammalian Heparanase. Journal of Biological Chemistry, 2014, 289, 34141-34151.	1.6	30
77	Brittlestars contain highly sulfated chondroitin sulfates/dermatan sulfates that promote fibroblast growth factor 2-induced cell signaling. Glycobiology, 2014, 24, 195-207.	1.3	19
78	A Computational Framework for Heparan Sulfate Sequencing Using High-resolution Tandem Mass Spectra. Molecular and Cellular Proteomics, 2014, 13, 2490-2502.	2.5	25
79	Workflow for Combined Proteomics and Glycomics Profiling from Histological Tissues. Analytical Chemistry, 2014, 86, 9670-9678.	3.2	41
80	Confident Assignment of Site-Specific Glycosylation in Complex Glycoproteins in a Single Step. Journal of Proteome Research, 2014, 13, 4347-4355.	1.8	47
81	Heparan sulfate-protein binding specificity. Biochemistry (Moscow), 2013, 78, 726-735.	0.7	27
82	Mass Spectral Profiling of Glycosaminoglycans from Histological Tissue Surfaces. Analytical Chemistry, 2013, 85, 10984-10991.	3.2	33
83	Disaccharide Analysis of Glycosaminoglycans Using Hydrophilic Interaction Chromatography and Mass Spectrometry. Analytical Chemistry, 2013, 85, 1138-1145.	3.2	64
84	Capillary Electrophoresisâ€“Mass Spectrometry of Carbohydrates. Methods in Molecular Biology, 2013, 984, 13-25.	0.4	30
85	De Novo Sequencing of Heparan Sulfate Oligosaccharides by Electron-Activated Dissociation. Analytical Chemistry, 2013, 85, 11979-11986.	3.2	43
86	Comment on â€œComputation of Isotopic Peak Center-Mass Distribution by Fourier Transformâ€• Analytical Chemistry, 2013, 85, 12189-12192.	3.2	3
87	Glycosaminoglycan Glycomics Using Mass Spectrometry. Molecular and Cellular Proteomics, 2013, 12, 885-892.	2.5	72
88	A Small Molecule Glycosaminoglycan Mimetic Blocks Plasmodium Invasion of the Mosquito Midgut. PLoS Pathogens, 2013, 9, e1003757.	2.1	25
89	LC-MS and LC-MS/MS studies of incorporation of 34SO3 into glycosaminoglycan chains by sulfotransferases. Glycobiology, 2013, 23, 969-979.	1.3	3
90	The binding sites of monoclonal antibodies to the nonreducing end ofFrancisella tularensis O-antigen accommodate mainly the terminal saccharide. Immunology, 2013, 140, n/a-n/a.	2.0	12

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91	The Minimum Information Required for a Glycomics Experiment (MIRAGE) Project: Improving the Standards for Reporting Mass-spectrometry-based Glycoanalytic Data. Molecular and Cellular Proteomics, 2013, 12, 991-995.	2.5	109
92	Comparative glycomics of leukocyte glycosaminoglycans. FEBS Journal, 2013, 280, 2447-2461.	2.2	39
93	Interlaboratory Study on Differential Analysis of Protein Glycosylation by Mass Spectrometry: The ABRF Glycoprotein Research Multi-Institutional Study 2012. Molecular and Cellular Proteomics, 2013, 12, 2935-2951.	2.5	103
94	GlycReSoft: A Software Package for Automated Recognition of Glycans from LC/MS Data. PLoS ONE, 2012, 7, e45474.	1.1	126
95	Dermatan Sulfate Is Involved in the Tumorigenic Properties of Esophagus Squamous Cell Carcinoma. Cancer Research, 2012, 72, 1943-1952.	0.4	58
96	Heparan Sulfate 6-O-endosulfatases (Sulfs) Coordinate the Wnt Signaling Pathways to Regulate Myoblast Fusion during Skeletal Muscle Regeneration. Journal of Biological Chemistry, 2012, 287, 32651-32664.	1.6	50
97	Tandem Mass Spectrometry of Heparan Sulfate Negative Ions: Sulfate Loss Patterns and Chemical Modification Methods for Improvement of Product Ion Profiles. Journal of the American Society for Mass Spectrometry, 2012, 23, 1498-1511.	1.2	35
98	Mass Spectrometric Method for Determining the Uronic Acid Epimerization in Heparan Sulfate Disaccharides Generated Using Nitrous Acid. Analytical Chemistry, 2012, 84, 7539-7546.	3.2	29
99	Top-Down Approach for the Direct Characterization of Low Molecular Weight Heparins Using LC-FT-MS. Analytical Chemistry, 2012, 84, 8822-8829.	3.2	103
100	Effective Use of Mass Spectrometry for Glycan and Glycopeptide Structural Analysis. Analytical Chemistry, 2012, 84, 3040-3048.	3.2	173
101	Differential characterization and classification of tissue specific glycosaminoglycans by tandem mass spectrometry and statistical methods. International Journal of Mass Spectrometry, 2012, 312, 144-154.	0.7	11
102	Protective Bâ€cell epitopes of Francisella tularensis Oâ€polysaccharide in a mouse model of respiratory tularaemia. Immunology, 2012, 136, 352-360.	2.0	16
103	A Typical Preparation ofFrancisella tularensisO-Antigen Yields a Mixture of Three Types of Saccharides. Biochemistry, 2011, 50, 10941-10950.	1.2	21
104	Mechanisms of Interaction Between Lung Collectins and Influenza a Virus Hemagglutinin. Biophysical Journal, 2011, 100, 214a-215a.	0.2	0
105	Improved Liquid Chromatography-MS/MS of Heparan Sulfate Oligosaccharides via Chip-Based Pulsed Makeup Flow. Analytical Chemistry, 2011, 83, 8222-8229.	3.2	40
106	Analysis of Glycosaminoglycans Using Mass Spectrometry. Current Proteomics, 2011, 8, 325-336.	0.1	46
107	At last, functional glycomics. Nature Methods, 2011, 8, 55-57.	9.0	12
108	Multistage tandem mass spectrometry of chondroitin sulfate and dermatan sulfate. International Journal of Mass Spectrometry, 2011, 305, 131-137.	0.7	21

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109	Targeted analysis of glycomics liquid chromatography/mass spectrometry data. Analytical and Bioanalytical Chemistry, 2011, 399, 727-735.	1.9	19
110	WT1-Dependent Sulfatase Expression Maintains the Normal Glomerular Filtration Barrier. Journal of the American Society of Nephrology: JASN, 2011, 22, 1286-1296.	3.0	58
111	Expression regulation and function of heparan sulfate 6-O-endosulfatases in the spermatogonial stem cell niche. Glycobiology, 2011, 21, 152-161.	1.3	34
112	Mutagenesis of Surfactant Protein D Informed by Evolution and X-ray Crystallography Enhances Defenses against Influenza A Virus in Vivo. Journal of Biological Chemistry, 2011, 286, 40681-40692.	1.6	36
113	Highly Sulfated Nonreducing End-derived Heparan Sulfate Domains Bind Fibroblast Growth Factor-2 with High Affinity and Are Enriched in Biologically Active Fractions. Journal of Biological Chemistry, 2011, 286, 19311-19319.	1.6	33
114	Glycomics Analysis of Mammalian Heparan Sulfates Modified by the Human Extracellular Sulfatase HSulf2. PLoS ONE, 2011, 6, e16689.	1.1	21
115	Extended N-Sulfated Domains Reside at the Nonreducing End of Heparan Sulfate Chains. Journal of Biological Chemistry, 2010, 285, 18336-18343.	1.6	48
116	Extraction of Chondroitin/Dermatan Sulfate Glycosaminoglycans from Connective Tissue for Mass Spectrometric Analysis. Methods in Molecular Biology, 2010, 600, 215-225.	0.4	15
117	Improved Hydrophilic Interaction Chromatography LC/MS of Heparinoids Using a Chip with Postcolumn Makeup Flow. Analytical Chemistry, 2010, 82, 516-522.	3.2	55
118	Screening for Anticoagulant Heparan Sulfate Octasaccharides and Fine Structure Characterization Using Tandem Mass Spectrometry. Biochemistry, 2010, 49, 3743-3752.	1.2	15
119	Comparative Glycomics Using a Tetraplex Stable-Isotope Coded Tag. Analytical Chemistry, 2010, 82, 3023-3031.	3.2	64
120	Mass Spectrometry and Glycomics. OMICS A Journal of Integrative Biology, 2010, 14, 401-418.	1.0	208
121	Historical Overview of Glycoanalysis. Methods in Molecular Biology, 2010, 600, 9-30.	0.4	37
122	Organ-specific Heparan Sulfate Structural Phenotypes. Journal of Biological Chemistry, 2009, 284, 11806-11814.	1.6	118
123	Reply to Savolainen: Organ- and Cell-specific GAG Chains. Journal of Biological Chemistry, 2009, 284, le2.	1.6	0
124	Onâ€line separations combined with MS for analysis of glycosaminoglycans. Mass Spectrometry Reviews, 2009, 28, 254-272.	2.8	112
125	A chipâ€based amideâ€HILIC LC/MS platform for glycosaminoglycan glycomics profiling. Proteomics, 2009, 9, 686-695.	1.3	92
126	Comparative glycomics of connective tissue glycosaminoglycans. Proteomics, 2008, 8, 1384-1397.	1.3	88

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127	Improved workup for glycosaminoglycan disaccharide analysis using CE with LIF detection. Electrophoresis, 2008, 29, 4538-4548.	1.3	35
128	Mass Spectrometry and the Emerging Field of Glycomics. Chemistry and Biology, 2008, 15, 881-892.	6.2	214
129	Characterization of Heparin Oligosaccharides Binding Specifically to Antithrombin III Using Mass Spectrometry. Biochemistry, 2008, 47, 3155-3161.	1.2	50
130	Optimized extraction of glycosaminoglycans from normal and osteoarthritic cartilage for glycomics profiling. Glycobiology, 2007, 17, 25-35.	1.3	59
131	Tags for the Stable Isotopic Labeling of Carbohydrates and Quantitative Analysis by Mass Spectrometry. Analytical Chemistry, 2007, 79, 5777-5784.	3.2	98
132	The role of mobile protons in negative ion CID of oligosaccharides. Journal of the American Society for Mass Spectrometry, 2007, 18, 952-960.	1.2	54
133	Glycoform Quantification of Chondroitin/Dermatan Sulfate Using a Liquid Chromatographyâ^'Tandem Mass Spectrometry Platform. Biochemistry, 2006, 45, 2350-2361.	1.2	112
134	Size-exclusion chromatography of heparin oligosaccharides at high and low pressure. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2006, 837, 76-86.	1.2	47
135	The influence of sialylation on glycan negative ion dissociation and energetics. Journal of the American Society for Mass Spectrometry, 2006, 17, 844-854.	1.2	39
136	A tandem mass spectrometric approach to determination of chondroitin/dermatan sulfate oligosaccharide glycoforms. Glycobiology, 2006, 16, 502-513.	1.3	70
137	Mass spectrometry of oligosaccharides. Mass Spectrometry Reviews, 2004, 23, 161-227.	2.8	763
138	Mass Spectrometry of Oligosaccharides. ChemInform, 2004, 35, no.	0.1	0
139	Competing fragmentation processes in tandem mass spectra of heparin-like glycosaminoglycans. Journal of the American Society for Mass Spectrometry, 2004, 15, 1534-1544.	1.2	60
140	Tandem mass spectrometric strategies for determination of sulfation positions and uronic acid epimerization in chondroitin sulfate oligosaccharides. Journal of the American Society for Mass Spectrometry, 2003, 14, 1270-1281.	1.2	98
141	Tandem Mass Spectrometry of Sulfated Heparin-Like Glycosaminoglycan Oligosaccharides. Analytical Chemistry, 2003, 75, 2445-2455.	3.2	140
142	Influence of Charge State on Product Ion Mass Spectra and the Determination of 4S/6S Sulfation Sequence of Chondroitin Sulfate Oligosaccharides. Analytical Chemistry, 2002, 74, 3760-3771.	3.2	62
143	Compositional Analysis of Glycosaminoglycans by Electrospray Mass Spectrometry. Analytical Chemistry, 2001, 73, 233-239.	3.2	139
144	Tandem Mass Spectrometric Determination of the 4S/6S Sulfation Sequence in Chondroitin Sulfate Oligosaccharides. Analytical Chemistry, 2001, 73, 6030-6039.	3.2	94

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145	The SH-3 and SH-4 Antibodies Recognize Distinct Epitopes on CD73 from Human Mesenchymal Stem Cells. Biochemical and Biophysical Research Communications, 2001, 289, 519-524.	1.0	226
146	Posttranslational Modifications to Human Bone Sialoprotein Determined by Mass Spectrometry. Biochemistry, 2001, 40, 12983-12991.	1.2	31
147	Structural Analysis of Cartilage Proteoglycans and Glycoproteins Using Matrix-Assisted Laser Desorption/Ionization Time-of-Flight Mass Spectrometry. Analytical Biochemistry, 2000, 277, 94-103.	1.1	20
148	Alternative O-Glycosylation/O-Phosphorylation of the Murine Estrogen Receptor Î²â€. Biochemistry, 2000, 39, 11609-11620.	1.2	163
149	The Monoclonal Antibody SH-2, Raised against Human Mesenchymal Stem Cells, Recognizes an Epitope on Endoglin (CD105). Biochemical and Biophysical Research Communications, 1999, 265, 134-139.	1.0	361
150	Mesenchymal Stem Cell Surface Antigen SB-10 Corresponds to Activated Leukocyte Cell Adhesion Molecule and Is Involved in Osteogenic Differentiation. Journal of Bone and Mineral Research, 1998, 13, 655-663.	3.1	230
151	Monitoring metal ion flux in reactions of metallothionein and drugâ€modified metallothionein by electrospray mass spectrometry. Protein Science, 1998, 7, 2398-2404.	3.1	80
152	Copurification of P6, MRP8, and MRP14 from Human Granulocytes and Separation of Individual Proteins. Protein Expression and Purification, 1998, 13, 313-318.	0.6	47
153	Post-translational Modifications in Cartilage Oligomeric Matrix Protein. Journal of Biological Chemistry, 1997, 272, 14120-14126.	1.6	37
154	Retention of Thiol Protons in Two Classes of Protein Zinc Ion Coordination Centers. Journal of the American Chemical Society, 1996, 118, 12242-12243.	6.6	95
155	A Binding Site for Chlorambucil on Metallothioneinâ€. Biochemistry, 1996, 35, 2830-2835.	1.2	47
156	Charged Derivatives for Peptide Sequencing Using a Magnetic Sector Instrument. , 1996, 61, 29-42.		3
157	Comparison of charged derivatives for high energy collision-induced dissociation tandem mass spectrometry. Journal of the American Society for Mass Spectrometry, 1995, 6, 428-436.	1.2	40
158	Characteristics of high energy collision-induced dissociation tandem Mass Spectra of Polycyclic aromatic Hydrocarbon diolepoxide adducted peptides. Journal of the American Society for Mass Spectrometry, 1994, 5, 649-654.	1.2	9
159	Enantiospecificity of Covalent Adduct Formation by Benzo[a]pyrene anti-Diol Epoxide with Human Serum Albumin. Chemical Research in Toxicology, 1994, 7, 829-835.	1.7	40
160	Proteinase K Activity Inhibitor Near Amino Acids Carrying Large Substituents: Three PAH Diolepoxides Covalently Modify His-146 Human Serum Albumin Residue. Journal of the American Chemical Society, 1994, 116, 7407-7408.	6.6	8
161	The correct molecular weight of myoglobin, a common calibrant for mass spectrometry. Rapid Communications in Mass Spectrometry, 1992, 6, 32-36.	0.7	85
162	Benzo[a]pyrene anti-diol epoxide covalently modifies human serum albumin carboxylate side chains and imidazole side chain of histidine(146). Journal of the American Chemical Society, 1991, 113, 8505-8509.	6.6	36

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163	Organic-soluble lanthanide nuclear magnetic resonance shift reagents for sulfonium and isothiouronium salts. Analytical Chemistry, 1987, 59, 562-567.	3.2	23
164	Lanthanide tetrakis(.beta.-diketonates) as effective NMR shift reagents for organic salts. Journal of Organic Chemistry, 1985, 50, 1322-1324.	1.7	26