# Joseph Zaia

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/2154074/publications.pdf

Version: 2024-02-01

| | | | |
|---|---|---|---|
| 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 of oligosaccharides. Mass Spectrometry Reviews, 2004, 23, 161-227. | 2.8 | 763 |
| 2 | 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 |
| 3 | 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 |
| 4 | 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 |
| 5 | Mass Spectrometry and the Emerging Field of Glycomics. Chemistry and Biology, 2008, 15, 881-892. | 6.2 | 214 |
| 6 | Mass Spectrometry and Glycomics. OMICS A Journal of Integrative Biology, 2010, 14, 401-418. | 1.0 | 208 |
| 7 | Effective Use of Mass Spectrometry for Glycan and Glycopeptide Structural Analysis. Analytical Chemistry, 2012, 84, 3040-3048. | 3.2 | 173 |
| 8 | Targeting Human Cancer by a Glycosaminoglycan Binding Malaria Protein. Cancer Cell, 2015, 28, 500-514. | 7.7 | 169 |
| 9 | Alternative O-Glycosylation/O-Phosphorylation of the Murine Estrogen Receptor Î²â€. Biochemistry, 2000, 39, 11609-11620. | 1.2 | 163 |
| 10 | Tandem Mass Spectrometry of Sulfated Heparin-Like Glycosaminoglycan Oligosaccharides. Analytical Chemistry, 2003, 75, 2445-2455. | 3.2 | 140 |
| 11 | Compositional Analysis of Glycosaminoglycans by Electrospray Mass Spectrometry. Analytical Chemistry, 2001, 73, 233-239. | 3.2 | 139 |
| 12 | GlycReSoft: A Software Package for Automated Recognition of Glycans from LC/MS Data. PLoS ONE, 2012, 7, e45474. | 1.1 | 126 |
| 13 | Organ-specific Heparan Sulfate Structural Phenotypes. Journal of Biological Chemistry, 2009, 284, 11806-11814. | 1.6 | 118 |
| 14 | MIRAGE: The minimum information required for a glycomics experiment. Glycobiology, 2014, 24, 402-406. | 1.3 | 116 |
| 15 | Glycoform Quantification of Chondroitin/Dermatan Sulfate Using a Liquid Chromatographyâ^'Tandem Mass Spectrometry Platform. Biochemistry, 2006, 45, 2350-2361. | 1.2 | 112 |
| 16 | Onâ€line separations combined with MS for analysis of glycosaminoglycans. Mass Spectrometry Reviews, 2009, 28, 254-272. | 2.8 | 112 |
| 17 | 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 |
| 18 | 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 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | 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 |
| 20 | 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 |
| 21 | 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 |
| 22 | Tags for the Stable Isotopic Labeling of Carbohydrates and Quantitative Analysis by Mass Spectrometry. Analytical Chemistry, 2007, 79, 5777-5784. | 3.2 | 98 |
| 23 | 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 |
| 24 | Microfluidic Capillary Electrophoresisâ€“Mass Spectrometry for Analysis of Monosaccharides, Oligosaccharides, and Glycopeptides. Analytical Chemistry, 2017, 89, 6645-6655. | 3.2 | 95 |
| 25 | Tandem Mass Spectrometric Determination of the 4S/6S Sulfation Sequence in Chondroitin Sulfate Oligosaccharides. Analytical Chemistry, 2001, 73, 6030-6039. | 3.2 | 94 |
| 26 | A chipâ€based amideâ€HILIC LC/MS platform for glycosaminoglycan glycomics profiling. Proteomics, 2009, 9, 686-695. | 1.3 | 92 |
| 27 | Comparative glycomics of connective tissue glycosaminoglycans. Proteomics, 2008, 8, 1384-1397. | 1.3 | 88 |
| 28 | 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 |
| 29 | The correct molecular weight of myoglobin, a common calibrant for mass spectrometry. Rapid Communications in Mass Spectrometry, 1992, 6, 32-36. | 0.7 | 85 |
| 30 | 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 |
| 31 | GlyTouCan 1.0 â€“ The international glycan structure repository. Nucleic Acids Research, 2016, 44, D1237-D1242. | 6.5 | 83 |
| 32 | Extracellular matrix proteomics in schizophrenia and Alzheimerâ€™s disease. Analytical and Bioanalytical Chemistry, 2017, 409, 379-394. | 1.9 | 83 |
| 33 | Algorithms and design strategies towards automated glycoproteomics analysis. Mass Spectrometry Reviews, 2017, 36, 475-498. | 2.8 | 82 |
| 34 | 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 |
| 35 | A review of methods for interpretation of glycopeptide tandem mass spectral data. Glycoconjugate Journal, 2016, 33, 285-296. | 1.4 | 74 |
| 36 | Community evaluation of glycoproteomics informatics solutions reveals high-performance search strategies for serum glycopeptide analysis. Nature Methods, 2021, 18, 1304-1316. | 9.0 | 74 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Glycosaminoglycan Glycomics Using Mass Spectrometry. Molecular and Cellular Proteomics, 2013, 12, 885-892. | 2.5 | 72 |
| 38 | A tandem mass spectrometric approach to determination of chondroitin/dermatan sulfate oligosaccharide glycoforms. Glycobiology, 2006, 16, 502-513. | 1.3 | 70 |
| 39 | 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 |
| 40 | Comparative Glycomics Using a Tetraplex Stable-Isotope Coded Tag. Analytical Chemistry, 2010, 82, 3023-3031. | 3.2 | 64 |
| 41 | Disaccharide Analysis of Glycosaminoglycans Using Hydrophilic Interaction Chromatography and Mass Spectrometry. Analytical Chemistry, 2013, 85, 1138-1145. | 3.2 | 64 |
| 42 | 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 |
| 43 | 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 |
| 44 | 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 |
| 45 | Optimized extraction of glycosaminoglycans from normal and osteoarthritic cartilage for glycomics profiling. Glycobiology, 2007, 17, 25-35. | 1.3 | 59 |
| 46 | 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 |
| 47 | Dermatan Sulfate Is Involved in the Tumorigenic Properties of Esophagus Squamous Cell Carcinoma. Cancer Research, 2012, 72, 1943-1952. | 0.4 | 58 |
| 48 | Improved Hydrophilic Interaction Chromatography LC/MS of Heparinoids Using a Chip with Postcolumn Makeup Flow. Analytical Chemistry, 2010, 82, 516-522. | 3.2 | 55 |
| 49 | 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 |
| 50 | 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 |
| 51 | Why Glycosylation Matters in Building a Better Flu Vaccine. Molecular and Cellular Proteomics, 2019, 18, 2348-2358. | 2.5 | 54 |
| 52 | 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 |
| 53 | Characterization of Heparin Oligosaccharides Binding Specifically to Antithrombin III Using Mass Spectrometry. Biochemistry, 2008, 47, 3155-3161. | 1.2 | 50 |
| 54 | 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 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Extended N-Sulfated Domains Reside at the Nonreducing End of Heparan Sulfate Chains. Journal of Biological Chemistry, 2010, 285, 18336-18343. | 1.6 | 48 |
| 56 | A Binding Site for Chlorambucil on Metallothioneinâ€. Biochemistry, 1996, 35, 2830-2835. | 1.2 | 47 |
| 57 | 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 |
| 58 | 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 |
| 59 | Confident Assignment of Site-Specific Glycosylation in Complex Glycoproteins in a Single Step. Journal of Proteome Research, 2014, 13, 4347-4355. | 1.8 | 47 |
| 60 | Analysis of Glycosaminoglycans Using Mass Spectrometry. Current Proteomics, 2011, 8, 325-336. | 0.1 | 46 |
| 61 | 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 |
| 62 | De Novo Sequencing of Heparan Sulfate Oligosaccharides by Electron-Activated Dissociation. Analytical Chemistry, 2013, 85, 11979-11986. | 3.2 | 43 |
| 63 | Application of network smoothing to glycan LC-MS profiling. Bioinformatics, 2018, 34, 3511-3518. | 1.8 | 43 |
| 64 | 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 |
| 65 | Toward Automatic and Comprehensive Glycan Characterization by Online PGC-LC-EED MS/MS. Analytical Chemistry, 2020, 92, 782-791. | 3.2 | 42 |
| 66 | Workflow for Combined Proteomics and Glycomics Profiling from Histological Tissues. Analytical Chemistry, 2014, 86, 9670-9678. | 3.2 | 41 |
| 67 | 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 |
| 68 | 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 |
| 69 | Improved Liquid Chromatography-MS/MS of Heparan Sulfate Oligosaccharides via Chip-Based Pulsed Makeup Flow. Analytical Chemistry, 2011, 83, 8222-8229. | 3.2 | 40 |
| 70 | 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 |
| 71 | Comparative glycomics of leukocyte glycosaminoglycans. FEBS Journal, 2013, 280, 2447-2461. | 2.2 | 39 |
| 72 | Proteomics, Glycomics, and Glycoproteomics of Matrisome Molecules. Molecular and Cellular Proteomics, 2019, 18, 2138-2148. | 2.5 | 38 |

| # | Article | IF | Citations |
|---|---|---|---|
| 73 | Post-translational Modifications in Cartilage Oligomeric Matrix Protein. Journal of Biological Chemistry, 1997, 272, 14120-14126. | 1.6 | 37 |
| 74 | A glycomics and proteomics study of aging and Parkinsonâ€™s disease in human brain. Scientific Reports, 2020, 10, 12804. | 1.6 | 37 |
| 75 | Historical Overview of Glycoanalysis. Methods in Molecular Biology, 2010, 600, 9-30. | 0.4 | 37 |
| 76 | 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 |
| 77 | 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 |
| 78 | 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 |
| 79 | 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 |
| 80 | Improved workup for glycosaminoglycan disaccharide analysis using CE with LIF detection. Electrophoresis, 2008, 29, 4538-4548. | 1.3 | 35 |
| 81 | 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 |
| 82 | Discovery of a Heparan Sulfate 3-O-Sulfation Specific Peeling Reaction. Analytical Chemistry, 2015, 87, 592-600. | 3.2 | 35 |
| 83 | glypy: An Open Source Glycoinformatics Library. Journal of Proteome Research, 2019, 18, 3532-3537. | 1.8 | 35 |
| 84 | Expression regulation and function of heparan sulfate 6-O-endosulfatases in the spermatogonial stem cell niche. Glycobiology, 2011, 21, 152-161. | 1.3 | 34 |
| 85 | 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 |
| 86 | Mass Spectral Profiling of Glycosaminoglycans from Histological Tissue Surfaces. Analytical Chemistry, 2013, 85, 10984-10991. | 3.2 | 33 |
| 87 | Posttranslational Modifications to Human Bone Sialoprotein Determined by Mass Spectrometry. Biochemistry, 2001, 40, 12983-12991. | 1.2 | 31 |
| 88 | Capillary Electrophoresisâ€“Mass Spectrometry of Carbohydrates. Methods in Molecular Biology, 2013, 984, 13-25. | 0.4 | 30 |
| 89 | 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 |
| 90 | 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 |

| # | Article | IF | Citations |
|---|---|---|---|
| 91 | On-slide tissue digestion for mass spectrometry based glycomic and proteomic profiling. MethodsX, 2019, 6, 2329-2347. | 0.7 | 29 |
| 92 | 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 |
| 93 | Heparan sulfate-protein binding specificity. Biochemistry (Moscow), 2013, 78, 726-735. | 0.7 | 27 |
| 94 | Glycomic and Proteomic Changes in Aging Brain Nigrostriatal Pathway. Molecular and Cellular Proteomics, 2018, 17, 1778-1787. | 2.5 | 27 |
| 95 | Relative Retention Time Estimation Improves N-Glycopeptide Identifications by LCâ€“MS/MS. Journal of Proteome Research, 2020, 19, 2113-2121. | 1.8 | 27 |
| 96 | Lanthanide tetrakis(.beta.-diketonates) as effective NMR shift reagents for organic salts. Journal of Organic Chemistry, 1985, 50, 1322-1324. | 1.7 | 26 |
| 97 | Complexity and ultrastructure of infectious extracellular vesicles from cells infected by non-enveloped virus. Scientific Reports, 2020, 10, 7939. | 1.6 | 26 |
| 98 | A Small Molecule Glycosaminoglycan Mimetic Blocks Plasmodium Invasion of the Mosquito Midgut. PLoS Pathogens, 2013, 9, e1003757. | 2.1 | 25 |
| 99 | A Computational Framework for Heparan Sulfate Sequencing Using High-resolution Tandem Mass Spectra. Molecular and Cellular Proteomics, 2014, 13, 2490-2502. | 2.5 | 25 |
| 100 | Organic-soluble lanthanide nuclear magnetic resonance shift reagents for sulfonium and isothiouronium salts. Analytical Chemistry, 1987, 59, 562-567. | 3.2 | 23 |
| 101 | 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 |
| 102 | Imaging specific cellular glycan structures using glycosyltransferases via click chemistry. Glycobiology, 2018, 28, 69-79. | 1.3 | 22 |
| 103 | Sequencing Heparan Sulfate Using HILIC LC-NETD-MS/MS. Analytical Chemistry, 2019, 91, 11738-11746. | 3.2 | 22 |
| 104 | In-Depth Matrisome and Glycoproteomic Analysis of Human Brain Glioblastoma Versus Control Tissue. Molecular and Cellular Proteomics, 2022, 21, 100216. | 2.5 | 22 |
| 105 | A Typical Preparation ofFrancisella tularensisO-Antigen Yields a Mixture of Three Types of Saccharides. Biochemistry, 2011, 50, 10941-10950. | 1.2 | 21 |
| 106 | Multistage tandem mass spectrometry of chondroitin sulfate and dermatan sulfate. International Journal of Mass Spectrometry, 2011, 305, 131-137. | 0.7 | 21 |
| 107 | Sensitive method for glycosaminoglycan analysis of tissue sections. Journal of Chromatography A, 2018, 1544, 41-48. | 1.8 | 21 |
| 108 | Software for Peak Finding and Elemental Composition Assignment for Glycosaminoglycan Tandem Mass Spectra. Molecular and Cellular Proteomics, 2018, 17, 1448-1456. | 2.5 | 21 |

| # | Article | IF | Citations |
|---|---|---|---|
| 109 | Glycomics Analysis of Mammalian Heparan Sulfates Modified by the Human Extracellular Sulfatase HSulf2. PLoS ONE, 2011, 6, e16689. | 1.1 | 21 |
| 110 | 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 |
| 111 | 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 |
| 112 | Targeted analysis of glycomics liquid chromatography/mass spectrometry data. Analytical and Bioanalytical Chemistry, 2011, 399, 727-735. | 1.9 | 19 |
| 113 | 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 |
| 114 | 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 |
| 115 | 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 |
| 116 | Protective Bâ€cell epitopes of Francisella tularensis Oâ€polysaccharide in a mouse model of respiratory tularaemia. Immunology, 2012, 136, 352-360. | 2.0 | 16 |
| 117 | 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 |
| 118 | Measuring Site-specific Glycosylation Similarity between Influenza a Virus Variants with Statistical Certainty. Molecular and Cellular Proteomics, 2020, 19, 1533-1545. | 2.5 | 16 |
| 119 | Serial in-solution digestion protocol for mass spectrometry-based glycomics and proteomics analysis. Molecular Omics, 2020, 16, 364-376. | 1.4 | 16 |
| 120 | Extraction of Chondroitin/Dermatan Sulfate Glycosaminoglycans from Connective Tissue for Mass Spectrometric Analysis. Methods in Molecular Biology, 2010, 600, 215-225. | 0.4 | 15 |
| 121 | Screening for Anticoagulant Heparan Sulfate Octasaccharides and Fine Structure Characterization Using Tandem Mass Spectrometry. Biochemistry, 2010, 49, 3743-3752. | 1.2 | 15 |
| 122 | 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 |
| 123 | Heparan sulfate: Resilience factor and therapeutic target for cocaine abuse. Scientific Reports, 2017, 7, 13931. | 1.6 | 14 |
| 124 | Matrisome changes in Parkinsonâ€™s disease. Analytical and Bioanalytical Chemistry, 2022, 414, 3005-3015. | 1.9 | 14 |
| 125 | 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 |
| 126 | At last, functional glycomics. Nature Methods, 2011, 8, 55-57. | 9.0 | 12 |

| # | Article | IF | Citations |
|---|---|---|---|
| 127 | 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 |
| 128 | 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 |
| 129 | Detecting O-GlcNAc using in vitro sulfation. Glycobiology, 2014, 24, 740-747. | 1.3 | 11 |
| 130 | psims - A Declarative Writer for mzML and mzIdentML for Python. Molecular and Cellular Proteomics, 2019, 18, 571-575. | 2.5 | 11 |
| 131 | Methods to improve quantitative glycoprotein coverage from bottomâ€up LCâ€MS data. Mass Spectrometry Reviews, 2022, 41, 922-937. | 2.8 | 11 |
| 132 | The Need for Community Standards to Enable Accurate Comparison of Glycoproteomics Algorithm Performance. Molecules, 2021, 26, 4757. | 1.7 | 11 |
| 133 | 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 |
| 134 | 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 |
| 135 | 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 |
| 136 | Calculating Glycoprotein Similarities From Mass Spectrometric Data. Molecular and Cellular Proteomics, 2021, 20, 100028. | 2.5 | 9 |
| 137 | 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 |
| 138 | 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 |
| 139 | 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 |
| 140 | A Perspective on the Confident Comparison of Glycoprotein Site-Specific Glycosylation in Sample Cohorts. Biochemistry, 2020, 59, 3089-3097. | 1.2 | 8 |
| 141 | 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 |
| 142 | Bioinformatics of glycosaminoglycans. Perspectives in Science, 2017, 11, 40-44. | 0.6 | 5 |
| 143 | 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 |
| 144 | Glycoproteomic Sample Processing, LCâ€MS, and Data Analysis Using GlycReSoft. Current Protocols, 2021, 1, e84. | 1.3 | 5 |

| # | Article | IF | Citations |
|---|---|---|---|
| 145 | Oligosaccharide Substrate Preferences of Human Extracellular Sulfatase Sulf2 Using Liquid Chromatography-Mass Spectrometry Based Glycomics Approaches. PLoS ONE, 2014, 9, e105143. | 1.1 | 4 |
| 146 | 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 |
| 147 | Mass spectrometry methods for analysis of extracellular matrix components in neurological diseases. Mass Spectrometry Reviews, 2023, 42, 1848-1875. | 2.8 | 4 |
| 148 | Charged Derivatives for Peptide Sequencing Using a Magnetic Sector Instrument. , 1996, 61, 29-42. | | 3 |
| 149 | Comment on â€œComputation of Isotopic Peak Center-Mass Distribution by Fourier Transformâ€. Analytical Chemistry, 2013, 85, 12189-12192. | 3.2 | 3 |
| 150 | LC-MS and LC-MS/MS studies of incorporation of 34SO3 into glycosaminoglycan chains by sulfotransferases. Glycobiology, 2013, 23, 969-979. | 1.3 | 3 |
| 151 | Influence of saccharide modifications on heparin lyase III substrate specificities. Glycobiology, 2022, 32, 208-217. | 1.3 | 3 |
| 152 | Historical Overview of Integrated GAG-omics and Proteomics. Biology of Extracellular Matrix, 2020, , 83-99. | 0.3 | 3 |
| 153 | Measuring change in glycoprotein structure. Current Opinion in Structural Biology, 2022, 74, 102371. | 2.6 | 3 |
| 154 | The minimum information required for a glycomics experiment (MIRAGE): reporting guidelines for capillary electrophoresis. Glycobiology, 2022, 32, 580-587. | 1.3 | 2 |
| 155 | O2â€01â€02: CHARACTERIZATION OF HUMAN ALZHEIMER'S DISEASE BRAINâ€DERIVED EXOSOMES. Alzheimer's and Dementia, 2018, 14, P608. | 0.4 | 1 |
| 156 | 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 |
| 157 | Native Mass Spectrometry Sheds Light on Formation of Deadly Heparin-PF4 Complexes. Biophysical Journal, 2020, 119, 1267. | 0.2 | 1 |
| 158 | GAGrank: Software for Glycosaminoglycan Sequence Ranking Using a Bipartite Graph Model. Molecular and Cellular Proteomics, 2021, 20, 100093. | 2.5 | 1 |
| 159 | Mass Spectrometry of Oligosaccharides. ChemInform, 2004, 35, no. | 0.1 | 0 |
| 160 | Reply to Savolainen: Organ- and Cell-specific GAG Chains. Journal of Biological Chemistry, 2009, 284, le2. | 1.6 | 0 |
| 161 | Mechanisms of Interaction Between Lung Collectins and Influenza a Virus Hemagglutinin. Biophysical Journal, 2011, 100, 214a-215a. | 0.2 | 0 |
| 162 | [O3â€“04â€“04]: COMPREHENSIVE CHARACTERIZATION OF HUMAN ALZHEIMER's DISEASE BRAINâ€DERIVED EXOSOMES. Alzheimer's and Dementia, 2017, 13, P907. | 0.4 | 0 |

| # | Article | IF | Citations |
|---|---|---|---|
| 163 | 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 |
| 164 | Analytical characterization of viruses. Analytical and Bioanalytical Chemistry, 2021, 413, 7145-7146. | 1.9 | 0 |