Weston B Struwe

List of Publications by Year
in descending order

96	5,350	76326	98798
papers	citations	40 h-index	67 g-index

107	107	107	7169
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Quantitative mass imaging of single biological macromolecules. Science, 2018, 360, 423-427.	12.6	453
2	The role of interfacial lipids in stabilizing membrane protein oligomers. Nature, 2017, 541, 421-424.	27.8	344
3	Composition and Antigenic Effects of Individual Glycan Sites of a Trimeric HIV-1 Envelope Glycoprotein. Cell Reports, 2016, 14, 2695-2706.	6.4	250
4	High-resolution mass spectrometry of small molecules bound to membrane proteins. Nature Methods, 2016, 13, 333-336.	19.0	205
5	Quantifying the heterogeneity of macromolecular machines by mass photometry. Nature Communications, 2020, 11, 1772.	12.8	146
6	UniCarb-DB: a database resource for glycomic discovery. Bioinformatics, 2011, 27, 1343-1344.	4.1	128
7	Method for milk oligosaccharide profiling by 2-aminobenzamide labeling and hydrophilic interaction chromatography. Glycobiology, 2011, 21, 1317-1330.	2.5	128
8	Optimal Synthetic Glycosylation of a Therapeutic Antibody. Angewandte Chemie - International Edition, 2016, 55, 2361-2367.	13.8	122
9	Site-Specific Glycosylation of Virion-Derived HIV-1 Env Is Mimicked by a Soluble Trimeric Immunogen. Cell Reports, 2018, 24, 1958-1966.e5.	6.4	120
10	MIRAGE: The minimum information required for a glycomics experiment. Glycobiology, 2014, 24, 402-406.	2.5	116
11	Glycan Fingerprinting via Coldâ€Ion Infrared Spectroscopy. Angewandte Chemie - International Edition, 2017, 56, 11248-11251.	13.8	116
12	Glycosylation of liver acuteâ€phase proteins in pancreatic cancer and chronic pancreatitis. Proteomics - Clinical Applications, 2010, 4, 432-448.	1.6	115
13	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.	3.8	109
14	EndoS2 is a unique and conserved enzyme of serotype M49 group A Streptococcus that hydrolyses N-linked glycans on IgG and Î±1-acid glycoprotein. Biochemical Journal, 2013, 455, 107-118.	3.7	95
15	N-glycan microheterogeneity regulates interactions of plasma proteins. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 8763-8768.	7.1	94
16	Glycosylation and Fc Receptors. Current Topics in Microbiology and Immunology, 2014, 382, 165-199.	1.1	89
17	Identification of N-Glycosylation Changes in the CSF and Serum in Patients with Schizophrenia. Journal of Proteome Research, 2010, 9, 4476-4489.	3.7	87
18	Estimating Collision Cross Sections of Negatively Charged N-Glycans using Traveling Wave Ion Mobility-Mass Spectrometry. Analytical Chemistry, 2014, 86, 10789-10795.	6.5	86

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19	Molecular Architecture of the Cleavage-Dependent Mannose Patch on a Soluble HIV-1 Envelope Glycoprotein Trimer. Journal of Virology, 2017, 91, .	3.4	77
20	GlycoMob: an ion mobility-mass spectrometry collision cross section database for glycomics. Glycoconjugate Journal, 2016, 33, 399-404.	2.7	73
21	Quantifying Proteinâ€“Protein Interactions by Molecular Counting with Mass Photometry. Angewandte Chemie - International Edition, 2020, 59, 10774-10779.	13.8	72
22	Towards a standardized bioinformatics infrastructure for N- and O-glycomics. Nature Communications, 2019, 10, 3275.	12.8	70
23	The minimum information required for a glycomics experiment (MIRAGE) project: improving the standards for reporting glycan microarray-based data. Glycobiology, 2017, 27, 280-284.	2.5	69
24	Assessing Antigen Structural Integrity through Glycosylation Analysis of the SARS-CoV-2 Viral Spike. ACS Central Science, 2021, 7, 586-593.	11.3	68
25	Exploring the Glycosylation of Serum CA125. International Journal of Molecular Sciences, 2013, 14, 15636-15654.	4.1	67
26	Structures of mammalian ER Î±-glucosidase II capture the binding modes of broad-spectrum iminosugar antivirals. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E4630-8.	7.1	65
27	5-AZA-2'-deoxycytidine induced demethylation influencesN-glycosylation of secreted glycoproteins in ovarian cancer. Epigenetics, 2011, 6, 1362-1372.	2.7	63
28	The minimum information required for a glycomics experiment (MIRAGE) project: sample preparation guidelines for reliable reporting of glycomics datasets. Glycobiology, 2016, 26, 907-910.	2.5	62
29	Fc Gamma Receptor Glycosylation Modulates the Binding of IgG Glycoforms: A Requirement for Stable Antibody Interactions. Journal of Proteome Research, 2014, 13, 5471-5485.	3.7	61
30	Identification of Lewis and Blood Group Carbohydrate Epitopes by Ion Mobility-Tandem-Mass Spectrometry Fingerprinting. Analytical Chemistry, 2017, 89, 2318-2325.	6.5	57
31	Reducing V3 Antigenicity and Immunogenicity on Soluble, Native-Like HIV-1 Env SOSIP Trimers. Journal of Virology, 2017, 91, .	3.4	57
32	UniCarbKB: Putting the pieces together for glycomics research. Proteomics, 2011, 11, 4117-4121.	2.2	55
33	In-depth structural analysis of glycans in the gas phase. Chemical Science, 2019, 10, 1272-1284.	7.4	52
34	Structural principles that enable oligomeric small heat-shock protein paralogs to evolve distinct functions. Science, 2018, 359, 930-935.	12.6	51
35	Fucose Migration in Intact Protonated Glycan Ions: A Universal Phenomenon in Mass Spectrometry. Angewandte Chemie - International Edition, 2018, 57, 7440-7443.	13.8	51
36	The COVID-19 MS Coalitionâ€"accelerating diagnostics, prognostics, and treatment. Lancet, The, 2020, 395, 1761-1762.	13.7	51

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37	A bipartite structural organization defines the SERINC family of HIV-1 restriction factors. Nature Structural and Molecular Biology, 2020, 27, 78-83.	8.2	50
38	ProbingN-glycoprotein microheterogeneity by lectin affinity purification-mass spectrometry analysis. Chemical Science, 2019, 10, 5146-5155.	7.4	49
39	Characterization of Fibrinogen Glycosylation and Its Importance for Serum/Plasma N-Glycome Analysis. Journal of Proteome Research, 2013, 12, 444-454.	3.7	48
40	Relating glycoprotein structural heterogeneity to function â€“ insights from native mass spectrometry. Current Opinion in Structural Biology, 2019, 58, 241-248.	5.7	48
41	Immune recruitment or suppression by glycan engineering of endogenous and therapeutic antibodies. Biochimica Et Biophysica Acta - General Subjects, 2016, 1860, 1655-1668.	2.4	47
42	Single molecule mass photometry of nucleic acids. Nucleic Acids Research, 2020, 48, e97-e97.	14.5	42
43	Separation of Isomeric O-Glycans by Ion Mobility and Liquid Chromatographyâ€“Mass Spectrometry. Analytical Chemistry, 2019, 91, 10604-10613.	6.5	40
44	The Tetrameric Plant Lectin BanLec Neutralizes HIV through Bidentate Binding to Specific Viral Glycans. Structure, 2017, 25, 773-782.e5.	3.3	39
45	A Massâ€Spectrometryâ€Based Modelling Workflow for Accurate Prediction of IgG Antibody Conformations in the Gas Phase. Angewandte Chemie - International Edition, 2018, 57, 17194-17199.	13.8	39
46	Shotgun ion mobility mass spectrometry sequencing of heparan sulfate saccharides. Nature Communications, 2020, 11, 1481.	12.8	39
47	Mass Photometry of Membrane Proteins. CheM, 2021, 7, 224-236.	11.7	39
48	Presence of terminal N-acetylgalactosaminel²1-4N-acetylglucosamine residues on O-linked oligosaccharides from gastric MUC5AC: Involvement in Helicobacter pylori colonization?. Glycobiology, 2012, 22, 1077-1085.	2.5	37
49	Increase in Sialylation and Branching in the Mouse Serum N-glycome Correlates with Inflammation and Ovarian Tumour Progression. PLoS ONE, 2013, 8, e71159.	2.5	37
50	Studying the active-site loop movement of the SÃ£o Paolo metallo-Î²-lactamase-1. Chemical Science, 2015, 6, 956-963.	7.4	36
51	Mass Spectrometric Quantification of N-Linked Glycans by Reference to Exogenous Standards. Journal of Proteome Research, 2016, 15, 2969-2980.	3.7	36
52	Galactosyltransferase 4 is a major control point for glycan branching in N-linked glycosylation. Journal of Cell Science, 2014, 127, 5014-26.	2.0	35
53	Travellingâ€wave ion mobility and negative ion fragmentation of highâ€mannose Nâ€glycans. Journal of Mass Spectrometry, 2016, 51, 219-235.	1.6	34
54	Global N-Glycan Site Occupancy of HIV-1 gp120 by Metabolic Engineering and High-Resolution Intact Mass Spectrometry. ACS Chemical Biology, 2017, 12, 357-361.	3.4	34

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55	Identification of O-glycan Structures from Chicken Intestinal Mucins Provides Insight into Campylobactor jejuni Pathogenicity*. Molecular and Cellular Proteomics, 2015, 14, 1464-1477.	3.8	32
56	Convergent immunological solutions to Argentine hemorrhagic fever virus neutralization. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 7031-7036.	7.1	31
57	Signature of Antibody Domain Exchange by Native Mass Spectrometry and Collision-Induced Unfolding. Analytical Chemistry, 2018, 90, 7325-7331.	6.5	31
58	The Jumonji-C oxygenase JMJD7 catalyzes (3S)-lysyl hydroxylation of TRAFAC GTPases. Nature Chemical Biology, 2018, 14, 688-695.	8.0	31
59	Hyper-truncated Asn355- and Asn391-glycans modulate the activity of neutrophil granule myeloperoxidase. Journal of Biological Chemistry, 2021, 296, 100144.	3.4	31
60	Native Mass Spectrometry: Towards High-Throughput Structural Proteomics. Methods in Molecular Biology, 2015, 1261, 349-371.	0.9	31
61	The minimum information required for a glycomics experiment (MIRAGE) project: LC guidelines. Glycobiology, 2019, 29, 349-354.	2.5	30
62	N-Linked Glycan Structures of the Human FcÎ³ Receptors Produced in NS0 Cells. Journal of Proteome Research, 2013, 12, 3721-3737.	3.7	28
63	Travellingâ€wave ion mobility mass spectrometry and negative ion fragmentation of hybrid and complex Nâ€glycans. Journal of Mass Spectrometry, 2016, 51, 1064-1079.	1.6	28
64	EndoE from Enterococcus faecalis Hydrolyzes the Glycans of the Biofilm Inhibiting Protein Lactoferrin and Mediates Growth. PLoS ONE, 2014, 9, e91035.	2.5	28
65	The conserved oligomeric Golgi complex is required for fucosylation of N-glycans in Caenorhabditis elegans. Glycobiology, 2012, 22, 863-875.	2.5	26
66	Collision Cross Sections and Ion Mobility Separation of Fragment Ions from Complex N-Glycans. Journal of the American Society for Mass Spectrometry, 2018, 29, 1250-1261.	2.8	26
67	Glycosylation profiling to evaluate glycoprotein immunogens against HIV-1. Expert Review of Proteomics, 2017, 14, 881-890.	3.0	24
68	Integrity of Glycosylation Processing of a Glycan-Depleted Trimeric HIV-1 Immunogen Targeting Key B-Cell Lineages. Journal of Proteome Research, 2018, 17, 987-999.	3.7	23
69	Structural Studies of Fucosylated N-Glycans by Ion Mobility Mass Spectrometry and Collision-Induced Fragmentation of Negative Ions. Journal of the American Society for Mass Spectrometry, 2018, 29, 1179-1193.	2.8	22
70	Isomer Information from Ion Mobility Separation of High-Mannose Glycan Fragments. Journal of the American Society for Mass Spectrometry, 2018, 29, 972-988.	2.8	21
71	Separation of isomeric glycans by ion mobility spectrometry â€“ the impact of fluorescent labelling. Analyst, The, 2019, 144, 5292-5298.	3.5	21
72	Modeling a congenital disorder of glycosylation type I in C. elegans: A genome-wide RNAi screen for N-glycosylation-dependent loci. Glycobiology, 2009, 19, 1554-1562.	2.5	18

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73	Structural characterization and biological implications of sulfatedN-glycans in a serine protease from the neotropical mothHylesia metabus(Cramer [1775]) (Lepidoptera: Saturniidae). Glycobiology, 2015, 26, cwv096.	2.5	18
74	Label-free methods for optical‹i›in vitro‹/i›characterization of proteinâ€“protein interactions. Physical Chemistry Chemical Physics, 2021, 23, 16488-16500.	2.8	18
75	FingerabdrÃ¼cke fÃ¼r Glykane durch Spektroskopie kalter Ionen. Angewandte Chemie, 2017, 129, 11400-11404.	2.0	16
76	Stateâ€ofâ€theâ€art glycosaminoglycan characterization. Mass Spectrometry Reviews, 2022, 41, 1040-1071.	5.4	16
77	Antibody production using a ciliate generates unusual antibody glycoforms displaying enhanced cell-killing activity. MAbs, 2016, 8, 1498-1511.	5.2	14
78	High-Throughput RNAi Screening for N-Glycosylation Dependent Loci in Caenorhabditis elegans. Methods in Enzymology, 2010, 480, 477-493.	1.0	12
79	Correlating Glycoforms of DCâ€SIGN with Stability Using a Combination of Enzymatic Digestion and Ion Mobility Mass Spectrometry. Angewandte Chemie - International Edition, 2020, 59, 15560-15564.	13.8	12
80	Native Mass Spectrometry Meets Glycomics: Resolving Structural Detail and Occupancy of Glycans on Intact Glycoproteins. Analytical Chemistry, 2021, 93, 10435-10443.	6.5	12
81	Ejection of structural zinc leads to inhibition of Î³-butyrobetaine hydroxylase. Bioorganic and Medicinal Chemistry Letters, 2014, 24, 4954-4957.	2.2	11
82	Quantifying Proteinâ€“Protein Interactions by Molecular Counting with Mass Photometry. Angewandte Chemie, 2020, 132, 10866-10871.	2.0	11
83	Expression, Purification, and Biochemical Characterization of Human Afamin. Journal of Proteome Research, 2018, 17, 1269-1277.	3.7	8
84	Structural Insights into the Broad-Spectrum Antiviral Target Endoplasmic Reticulum Alpha-Glucosidase II. Advances in Experimental Medicine and Biology, 2018, 1062, 265-276.	1.6	8
85	Fucoseâ€Migration in intakten protonierten Glykanâ€Ionen â€“ ein universelles PhÃnomen in der Massenspektrometrie. Angewandte Chemie, 2018, 130, 7562-7565.	2.0	7
86	Aminoquinolines as fluorescent labels for hydrophilic interaction liquid chromatography of oligosaccharides. Biological Chemistry, 2012, 393, 757-765.	2.5	6
87	Custom Design of Protein Particles as Multifunctional Biomaterials. Advanced Functional Materials, 2022, 32, 2108039.	14.9	6
88	A Massâ€Spectrometryâ€Based Modelling Workflow for Accurate Prediction of IgG Antibody Conformations in the Gas Phase. Angewandte Chemie, 2018, 130, 17440-17445.	2.0	5
89	Ion Mobility-Mass Spectrometry of Glycoconjugates. Methods in Molecular Biology, 2020, 2084, 203-219.	0.9	4
90	Correlating Glycoforms of DCâ€SIGN with Stability Using a Combination of Enzymatic Digestion and Ion Mobility Mass Spectrometry. Angewandte Chemie, 2020, 132, 15690-15694.	2.0	3

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91	Identification of N-glycans with GalNAc-containing antennae from recombinant HIV trimers by ion mobility and negative ion fragmentation. Analytical and Bioanalytical Chemistry, 2021, 413, 7229-7240.	3.7	1
92	Glycoproteomics in Health and Disease. , 2010, , 1-38.		1
93	Probing the Effect of Lipid Binding on the Monomer-Dimer Equilibrium of a Prokaryotic Sugar Transporter by Native Mass Spectrometry. Biophysical Journal, 2016, 110, 423a.	0.5	0
94	Frontispiz: Quantifying Proteinâ€“Protein Interactions by Molecular Counting with Mass Photometry. Angewandte Chemie, 2020, 132, .	2.0	0
95	Frontispiece: Quantifying Proteinâ€“Protein Interactions by Molecular Counting with Mass Photometry. Angewandte Chemie - International Edition, 2020, 59, .	13.8	0
96	Formation and fragmentation of doubly and triply charged ions in the negative ion spectra of neutral N-glycans from viral and other glycoproteins. Analytical and Bioanalytical Chemistry, 2021, 413, 7277-7294.	3.7	0