

James C Paulson

List of Publications by Citations

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173
papers

18,570
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67
h-index

135
g-index

184
ext. papers

21,284
ext. citations

11.8
avg, IF

6.76
L-index

#	Paper	IF	Citations
173	Siglecs and their roles in the immune system. <i>Nature Reviews Immunology</i> , 2007 , 7, 255-66	36.5	1334
172	Printed covalent glycan array for ligand profiling of diverse glycan binding proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 17033-8	11.5	949
171	New world bats harbor diverse influenza A viruses. <i>PLoS Pathogens</i> , 2013 , 9, e1003657	7.6	825
170	Structure and receptor specificity of the hemagglutinin from an H5N1 influenza virus. <i>Science</i> , 2006 , 312, 404-10	33.3	786
169	Receptor determinants of human and animal influenza virus isolates: differences in receptor specificity of the H3 hemagglutinin based on species of origin. <i>Virology</i> , 1983 , 127, 361-73	3.6	720
168	Receptor specificity in human, avian, and equine H2 and H3 influenza virus isolates. <i>Virology</i> , 1994 , 205, 17-23	3.6	622
167	Symbol Nomenclature for Graphical Representations of Glycans. <i>Glycobiology</i> , 2015 , 25, 1323-4	5.8	585
166	Siglec-mediated regulation of immune cell function in disease. <i>Nature Reviews Immunology</i> , 2014 , 14, 653-66	36.5	571
165	Glycan microarray analysis of the hemagglutinins from modern and pandemic influenza viruses reveals different receptor specificities. <i>Journal of Molecular Biology</i> , 2006 , 355, 1143-55	6.5	519
164	Glycomics: an integrated systems approach to structure-function relationships of glycans. <i>Nature Methods</i> , 2005 , 2, 817-24	21.6	373
163	Glycan microarrays for decoding the glycome. <i>Annual Review of Biochemistry</i> , 2011 , 80, 797-823	29.1	350
162	Sweet spots in functional glycomics. <i>Nature Chemical Biology</i> , 2006 , 2, 238-48	11.7	327
161	Characterization of H7N9 influenza A viruses isolated from humans. <i>Nature</i> , 2013 , 501, 551-5	50.4	321
160	Broadly neutralizing HIV antibodies define a glycan-dependent epitope on the prefusion conformation of gp41 on cleaved envelope trimers. <i>Immunity</i> , 2014 , 40, 657-68	32.3	286
159	Glycan microarray technologies: tools to survey host specificity of influenza viruses. <i>Nature Reviews Microbiology</i> , 2006 , 4, 857-64	22.2	286
158	Supersite of immune vulnerability on the glycosylated face of HIV-1 envelope glycoprotein gp120. <i>Nature Structural and Molecular Biology</i> , 2013 , 20, 796-803	17.6	274
157	Structural delineation of a quaternary, cleavage-dependent epitope at the gp41-gp120 interface on intact HIV-1 Env trimers. <i>Immunity</i> , 2014 , 40, 669-80	32.3	267

156	Global metabolic inhibitors of sialyl- and fucosyltransferases remodel the glycome. <i>Nature Chemical Biology</i> , 2012 , 8, 661-8	11.7	267
155	Broadly neutralizing antibody PGT121 allosterically modulates CD4 binding via recognition of the HIV-1 gp120 V3 base and multiple surrounding glycans. <i>PLoS Pathogens</i> , 2013 , 9, e1003342	7.6	235
154	Identification of sialic acid-binding function for the Middle East respiratory syndrome coronavirus spike glycoprotein. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E8508-E8517	11.5	216
153	Homomultimeric complexes of CD22 in B cells revealed by protein-glycan cross-linking. <i>Nature Chemical Biology</i> , 2005 , 1, 93-7	11.7	211
152	Recent avian H5N1 viruses exhibit increased propensity for acquiring human receptor specificity. <i>Journal of Molecular Biology</i> , 2008 , 381, 1382-94	6.5	176
151	Differential sensitivity of human, avian, and equine influenza A viruses to a glycoprotein inhibitor of infection: selection of receptor specific variants. <i>Virology</i> , 1983 , 131, 394-408	3.6	174
150	Contemporary North American influenza H7 viruses possess human receptor specificity: Implications for virus transmissibility. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 7558-63	11.5	171
149	Sialoside specificity of the siglec family assessed using novel multivalent probes: identification of potent inhibitors of myelin-associated glycoprotein. <i>Journal of Biological Chemistry</i> , 2003 , 278, 31007-19	5.4	170
148	Siglecs as targets for therapy in immune-cell-mediated disease. <i>Trends in Pharmacological Sciences</i> , 2009 , 30, 240-8	13.2	159
147	Microbial glycan microarrays define key features of host-microbial interactions. <i>Nature Chemical Biology</i> , 2014 , 10, 470-6	11.7	156
146	In vivo targeting of B-cell lymphoma with glycan ligands of CD22. <i>Blood</i> , 2010 , 115, 4778-86	2.2	155
145	Structural analysis of full-length SARS-CoV-2 spike protein from an advanced vaccine candidate. <i>Science</i> , 2020 , 370, 1089-1094	33.3	153
144	In vitro evolution of H5N1 avian influenza virus toward human-type receptor specificity. <i>Virology</i> , 2012 , 422, 105-13	3.6	149
143	Structural evolution of glycan recognition by a family of potent HIV antibodies. <i>Cell</i> , 2014 , 159, 69-79	56.2	147
142	A Broadly Neutralizing Antibody Targets the Dynamic HIV Envelope Trimer Apex via a Long, Rigidified, and Anionic E-Hairpin Structure. <i>Immunity</i> , 2017 , 46, 690-702	32.3	146
141	A structural explanation for the low effectiveness of the seasonal influenza H3N2 vaccine. <i>PLoS Pathogens</i> , 2017 , 13, e1006682	7.6	143
140	Systematic nomenclature for sialyltransferases. <i>Glycobiology</i> , 1996 , 6, v-vii	5.8	136
139	Antigenic liposomes displaying CD22 ligands induce antigen-specific B cell apoptosis. <i>Journal of Clinical Investigation</i> , 2013 , 123, 3074-83	15.9	136

138	Masking of CD22 by cis ligands does not prevent redistribution of CD22 to sites of cell contact. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 6104-9	11.5	134
137	Global site-specific N-glycosylation analysis of HIV envelope glycoprotein. <i>Nature Communications</i> , 2017 , 8, 14954	17.4	133
136	Structural characterization of the hemagglutinin receptor specificity from the 2009 H1N1 influenza pandemic. <i>Journal of Virology</i> , 2012 , 86, 982-90	6.6	132
135	Negative regulation of T cell receptor signaling by Siglec-7 (p70/AIRM) and Siglec-9. <i>Journal of Biological Chemistry</i> , 2004 , 279, 43117-25	5.4	132
134	Functional balance of the hemagglutinin and neuraminidase activities accompanies the emergence of the 2009 H1N1 influenza pandemic. <i>Journal of Virology</i> , 2012 , 86, 9221-32	6.6	130
133	Siglecs as Immune Cell Checkpoints in Disease. <i>Annual Review of Immunology</i> , 2020 , 38, 365-395	34.7	126
132	Hemagglutinin homologue from H17N10 bat influenza virus exhibits divergent receptor-binding and pH-dependent fusion activities. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 1458-63	11.5	125
131	Preferential recognition of avian-like receptors in human influenza A H7N9 viruses. <i>Science</i> , 2013 , 342, 1230-5	33.3	124
130	The N2 neuraminidase of human influenza virus has acquired a substrate specificity complementary to the hemagglutinin receptor specificity. <i>Virology</i> , 1991 , 180, 10-5	3.6	122
129	Recent H3N2 Viruses Have Evolved Specificity for Extended, Branched Human-type Receptors, Conferring Potential for Increased Avidity. <i>Cell Host and Microbe</i> , 2017 , 21, 23-34	23.4	121
128	Siglec-8 as a drugable target to treat eosinophil and mast cell-associated conditions. <i>Pharmacology & Therapeutics</i> , 2012 , 135, 327-36	13.9	120
127	High-affinity ligand probes of CD22 overcome the threshold set by cis ligands to allow for binding, endocytosis, and killing of B cells. <i>Journal of Immunology</i> , 2006 , 177, 2994-3003	5.3	118
126	Ablation of CD22 in ligand-deficient mice restores B cell receptor signaling. <i>Nature Immunology</i> , 2006 , 7, 199-206	19.1	118
125	An Atlas of Human Glycosylation Pathways Enables Display of the Human Glycome by Gene Engineered Cells. <i>Molecular Cell</i> , 2019 , 75, 394-407.e5	17.6	108
124	Distinct endocytic mechanisms of CD22 (Siglec-2) and Siglec-F reflect roles in cell signaling and innate immunity. <i>Molecular and Cellular Biology</i> , 2007 , 27, 5699-710	4.8	104
123	A Highly Pathogenic Avian H7N9 Influenza Virus Isolated from A Human Is Lethal in Some Ferrets Infected via Respiratory Droplets. <i>Cell Host and Microbe</i> , 2017 , 22, 615-626.e8	23.4	101
122	Transcriptional programs of lymphoid tissue capillary and high endothelium reveal control mechanisms for lymphocyte homing. <i>Nature Immunology</i> , 2014 , 15, 982-95	19.1	99
121	Activation of murine CD4+ and CD8+ T lymphocytes leads to dramatic remodeling of N-linked glycans. <i>Journal of Immunology</i> , 2006 , 177, 2431-40	5.3	98

120	Influenza virus neuraminidases with reduced enzymatic activity that avidly bind sialic Acid receptors. <i>Journal of Virology</i> , 2012 , 86, 13371-83	6.6	97
119	Recognition of microbial glycans by human intelectin-1. <i>Nature Structural and Molecular Biology</i> , 2015 , 22, 603-10	17.6	96
118	Differential processing of HIV envelope glycans on the virus and soluble recombinant trimer. <i>Nature Communications</i> , 2018 , 9, 3693	17.4	87
117	Structure, receptor binding, and antigenicity of influenza virus hemagglutinins from the 1957 H2N2 pandemic. <i>Journal of Virology</i> , 2010 , 84, 1715-21	6.6	85
116	Sialoside analogue arrays for rapid identification of high affinity siglec ligands. <i>Journal of the American Chemical Society</i> , 2008 , 130, 6680-1	16.4	83
115	Glycan-targeted virus-like nanoparticles for photodynamic therapy. <i>Biomacromolecules</i> , 2012 , 13, 2333-86.9	8.0	
114	Targeted delivery of lipid antigen to macrophages via the CD169/sialoadhesin endocytic pathway induces robust invariant natural killer T cell activation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 7826-31	11.5	78
113	Siglecs as sensors of self in innate and adaptive immune responses. <i>Annals of the New York Academy of Sciences</i> , 2012 , 1253, 37-48	6.5	77
112	Recognition of sialylated poly-N-acetyllactosamine chains on N- and O-linked glycans by human and avian influenza A virus hemagglutinins. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 4860-3	16.4	76
111	Antigen delivery to macrophages using liposomal nanoparticles targeting sialoadhesin/CD169. <i>PLoS ONE</i> , 2012 , 7, e39039	3.7	74
110	Receptor specificity of influenza A H3N2 viruses isolated in mammalian cells and embryonated chicken eggs. <i>Journal of Virology</i> , 2010 , 84, 8287-99	6.6	72
109	CD22 is a recycling receptor that can shuttle cargo between the cell surface and endosomal compartments of B cells. <i>Journal of Immunology</i> , 2011 , 186, 1554-63	5.3	72
108	Mammalian adaptation of influenza A(H7N9) virus is limited by a narrow genetic bottleneck. <i>Nature Communications</i> , 2015 , 6, 6553	17.4	70
107	On-virus construction of polyvalent glycan ligands for cell-surface receptors. <i>Journal of the American Chemical Society</i> , 2008 , 130, 4578-9	16.4	69
106	Systemic blockade of sialylation in mice with a global inhibitor of sialyltransferases. <i>Journal of Biological Chemistry</i> , 2014 , 289, 35149-58	5.4	67
105	Click and pick: identification of sialoside analogues for siglec-based cell targeting. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 11014-8	16.4	66
104	Three mutations switch H7N9 influenza to human-type receptor specificity. <i>PLoS Pathogens</i> , 2017 , 13, e1006390	7.6	65
103	Efficient preparation of natural and synthetic galactosides with a recombinant beta-1,4-galactosyltransferase-/UDP-4Ugal epimerase fusion protein. <i>Journal of Organic Chemistry</i> , 2001 , 66, 2442-8	4.2	64

102	Virus recognition of glycan receptors. <i>Current Opinion in Virology</i> , 2019 , 34, 117-129	7.5	62
101	The human naive B cell repertoire contains distinct subclasses for a germline-targeting HIV-1 vaccine immunogen. <i>Science Translational Medicine</i> , 2018 , 10,	17.5	62
100	Conformational analysis of sialyloligosaccharides. <i>Carbohydrate Research</i> , 1991 , 218, 27-54	2.9	62
99	Kinetic analysis of the influenza A virus HA/NA balance reveals contribution of NA to virus-receptor binding and NA-dependent rolling on receptor-containing surfaces. <i>PLoS Pathogens</i> , 2018 , 14, e1007233	7.6	61
98	Bifunctional CD22 ligands use multimeric immunoglobulins as protein scaffolds in assembly of immune complexes on B cells. <i>Journal of the American Chemical Society</i> , 2008 , 130, 7736-45	16.4	61
97	Disubstituted Sialic Acid Ligands Targeting Siglecs CD33 and CD22 Associated with Myeloid Leukaemias and B Cell Lymphomas. <i>Chemical Science</i> , 2014 , 5, 2398-2406	9.4	60
96	Copresentation of antigen and ligands of Siglec-G induces B cell tolerance independent of CD22. <i>Journal of Immunology</i> , 2013 , 191, 1724-31	5.3	57
95	Circulating avian influenza viruses closely related to the 1918 virus have pandemic potential. <i>Cell Host and Microbe</i> , 2014 , 15, 692-705	23.4	56
94	Hemagglutinin receptor specificity and structural analyses of respiratory droplet-transmissible H5N1 viruses. <i>Journal of Virology</i> , 2014 , 88, 768-73	6.6	54
93	On-chip synthesis and screening of a sialoside library yields a high affinity ligand for Siglec-7. <i>ACS Chemical Biology</i> , 2013 , 8, 1417-22	4.9	54
92	H5N1 receptor specificity as a factor in pandemic risk. <i>Virus Research</i> , 2013 , 178, 99-113	6.4	50
91	A human-infecting H10N8 influenza virus retains a strong preference for avian-type receptors. <i>Cell Host and Microbe</i> , 2015 , 17, 377-384	23.4	48
90	In silico-aided design of a glycan ligand of sialoadhesin for in vivo targeting of macrophages. <i>Journal of the American Chemical Society</i> , 2012 , 134, 15696-9	16.4	48
89	Synthesis of biologically active N- and O-linked glycans with multisialylated poly-N-acetyllactosamine extensions using P. damsela α -6 sialyltransferase. <i>Journal of the American Chemical Society</i> , 2013 , 135, 18280-18283	16.4	48
88	Constitutively unmasked CD22 on B cells of ST6Gal I knockout mice: novel sialoside probe for murine CD22. <i>Glycobiology</i> , 2002 , 12, 563-71	5.8	48
87	CD33 recruitment inhibits IgE-mediated anaphylaxis and desensitizes mast cells to allergen. <i>Journal of Clinical Investigation</i> , 2019 , 129, 1387-1401	15.9	48
86	Siglec-8 and Siglec-9 binding specificities and endogenous airway ligand distributions and properties. <i>Glycobiology</i> , 2017 , 27, 657-668	5.8	47
85	The minimum information required for a glycomics experiment (MIRAGE) project: sample preparation guidelines for reliable reporting of glycomics datasets. <i>Glycobiology</i> , 2016 , 26, 907-910	5.8	44

84	CD22 Ligands on a Natural N-Glycan Scaffold Efficiently Deliver Toxins to B-Lymphoma Cells. <i>Journal of the American Chemical Society</i> , 2017 , 139, 12450-12458	16.4	41
83	Diversity of Functionally Permissive Sequences in the Receptor-Binding Site of Influenza Hemagglutinin. <i>Cell Host and Microbe</i> , 2017 , 21, 742-753.e8	23.4	40
82	Global site-specific analysis of glycoprotein N-glycan processing. <i>Nature Protocols</i> , 2018 , 13, 1196-1212	18.8	40
81	Targeted delivery of mycobacterial antigens to human dendritic cells via Siglec-7 induces robust T cell activation. <i>Journal of Immunology</i> , 2014 , 193, 1560-6	5.3	40
80	Mechanistic Investigation and Multiplexing of Liposome-Assisted Metabolic Glycan Labeling. <i>Journal of the American Chemical Society</i> , 2018 , 140, 3592-3602	16.4	39
79	A complex epistatic network limits the mutational reversibility in the influenza hemagglutinin receptor-binding site. <i>Nature Communications</i> , 2018 , 9, 1264	17.4	38
78	CD22 regulates adaptive and innate immune responses of B cells. <i>Journal of Innate Immunity</i> , 2011 , 3, 411-9	6.9	37
77	Helicobacter pylori β ,3-N-acetylglucosaminyltransferase for versatile synthesis of type 1 and type 2 poly-LacNAcs on N-linked, O-linked and I-antigen glycans. <i>Glycobiology</i> , 2012 , 22, 1453-64	5.8	37
76	Co-evolution of HIV Envelope and Apex-Targeting Neutralizing Antibody Lineage Provides Benchmarks for Vaccine Design. <i>Cell Reports</i> , 2018 , 23, 3249-3261	10.6	36
75	Transitional and marginal zone B cells have a high proportion of unmasked CD22: implications for BCR signaling. <i>International Immunology</i> , 2003 , 15, 1137-47	4.9	36
74	Structure and receptor binding of the hemagglutinin from a human H6N1 influenza virus. <i>Cell Host and Microbe</i> , 2015 , 17, 369-376	23.4	35
73	Siglecs induce tolerance to cell surface antigens by BIM-dependent deletion of the antigen-reactive B cells. <i>Journal of Immunology</i> , 2014 , 193, 4312-21	5.3	35
72	Unmasking of CD22 Co-receptor on Germinal Center B-cells Occurs by Alternative Mechanisms in Mouse and Man. <i>Journal of Biological Chemistry</i> , 2015 , 290, 30066-77	5.4	35
71	Repression of phagocytosis by human CD33 is not conserved with mouse CD33. <i>Communications Biology</i> , 2019 , 2, 450	6.7	34
70	Mutation of the Second Sialic Acid-Binding Site, Resulting in Reduced Neuraminidase Activity, Preceded the Emergence of H7N9 Influenza A Virus. <i>Journal of Virology</i> , 2017 , 91,	6.6	33
69	Evolution of the hemagglutinin protein of the new pandemic H1N1 influenza virus: maintaining optimal receptor binding by compensatory substitutions. <i>Journal of Virology</i> , 2013 , 87, 13868-77	6.6	33
68	The virulence factor LecB varies in clinical isolates: consequences for ligand binding and drug discovery. <i>Chemical Science</i> , 2016 , 7, 4990-5001	9.4	33
67	Amino acid residues at positions 222 and 227 of the hemagglutinin together with the neuraminidase determine binding of H5 avian influenza viruses to sialyl Lewis X. <i>Archives of Virology</i> , 2016 , 161, 307-16	2.6	32

66	Sialylated keratan sulfate proteoglycans are Siglec-8 ligands in human airways. <i>Glycobiology</i> , 2018 , 28, 786-801	5.8	30
65	A single mutation in Taiwanese H6N1 influenza hemagglutinin switches binding to human-type receptors. <i>EMBO Molecular Medicine</i> , 2017 , 9, 1314-1325	12	30
64	Exploiting CD22 on antigen-specific B cells to prevent allergy to the major peanut allergen Ara h 2. <i>Journal of Allergy and Clinical Immunology</i> , 2017 , 139, 366-369.e2	11.5	29
63	Visualization of the HIV-1 Env glycan shield across scales. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 28014-28025	11.5	29
62	Structural Basis of Protection against H7N9 Influenza Virus by Human Anti-N9 Neuraminidase Antibodies. <i>Cell Host and Microbe</i> , 2019 , 26, 729-738.e4	23.4	29
61	Targeted Delivery of Antigen to Activated CD169 Macrophages Induces Bias for Expansion of CD8 T Cells. <i>Cell Chemical Biology</i> , 2019 , 26, 131-136.e4	8.2	28
60	The 150-Loop Restricts the Host Specificity of Human H10N8 Influenza Virus. <i>Cell Reports</i> , 2017 , 19, 235-245	14.5	27
59	Preventing an Antigenically Disruptive Mutation in Egg-Based H3N2 Seasonal Influenza Vaccines by Mutational Incompatibility. <i>Cell Host and Microbe</i> , 2019 , 25, 836-844.e5	23.4	27
58	CD22-antagonists with nanomolar potency: the synergistic effect of hydrophobic groups at C-2 and C-9 of sialic acid scaffold. <i>Bioorganic and Medicinal Chemistry</i> , 2011 , 19, 1966-71	3.4	27
57	Probing the binding specificities of human Siglecs by cell-based glycan arrays. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	26
56	Bacterial Polysaccharide Specificity of the Pattern Recognition Receptor Langerin Is Highly Species-dependent. <i>Journal of Biological Chemistry</i> , 2017 , 292, 862-871	5.4	25
55	Human CD22 Inhibits Murine B Cell Receptor Activation in a Human CD22 Transgenic Mouse Model. <i>Journal of Immunology</i> , 2017 , 199, 3116-3128	5.3	24
54	Fluorescent Trimeric Hemagglutinins Reveal Multivalent Receptor Binding Properties. <i>Journal of Molecular Biology</i> , 2019 , 431, 842-856	6.5	24
53	Encapsulating an Immunosuppressant Enhances Tolerance Induction by Siglec-Engaging Tolerogenic Liposomes. <i>ChemBioChem</i> , 2017 , 18, 1226-1233	3.8	23
52	A Sulfonamide Sialoside Analogue for Targeting Siglec-8 and -F on Immune Cells. <i>Journal of the American Chemical Society</i> , 2019 , 141, 14032-14037	16.4	23
51	Innate immune response triggers lupus-like autoimmune disease. <i>Cell</i> , 2007 , 130, 589-91	56.2	23
50	Site-Specific O-Glycosylation Analysis of SARS-CoV-2 Spike Protein Produced in Insect and Human Cells. <i>Viruses</i> , 2021 , 13,	6.2	23
49	Siglec-F is a novel intestinal M cell marker. <i>Biochemical and Biophysical Research Communications</i> , 2016 , 479, 1-4	3.4	23

48	In vivo tropism of Salmonella Typhi toxin to cells expressing a multiantennal glycan receptor. <i>Nature Microbiology</i> , 2018 , 3, 155-163	26.6	23
47	Identification of Stabilizing Mutations in an H5 Hemagglutinin Influenza Virus Protein. <i>Journal of Virology</i> , 2015 , 90, 2981-92	6.6	20
46	Avenues to Characterize the Interactions of Extended N-Glycans with Proteins by NMR Spectroscopy: The Influenza Hemagglutinin Case. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 15051-15055	16.4	19
45	Adaptation of influenza viruses to human airway receptors. <i>Journal of Biological Chemistry</i> , 2021 , 296, 100017	5.4	18
44	Flexibility of Amino Acid 226 in the Receptor-Binding Site of an H9 Subtype Influenza A Virus and Its Effect on Virus Replication, Tropism, and Transmission. <i>Journal of Virology</i> , 2019 , 93,	6.6	17
43	Exploiting CD22 To Selectively Tolerize Autoantibody Producing B-Cells in Rheumatoid Arthritis. <i>ACS Chemical Biology</i> , 2019 , 14, 644-654	4.9	16
42	Click and Pick: Identification of Sialoside Analogues for Siglec-Based Cell Targeting. <i>Angewandte Chemie</i> , 2012 , 124, 11176-11180	3.6	16
41	A vital sugar code for ricin toxicity. <i>Cell Research</i> , 2017 , 27, 1351-1364	24.7	15
40	Salmonella Typhoid Toxin PltB Subunit and Its Non-typhoidal Salmonella Ortholog Confer Differential Host Adaptation and Virulence. <i>Cell Host and Microbe</i> , 2020 , 27, 937-949.e6	23.4	14
39	Enhanced Human-Type Receptor Binding by Ferret-Transmissible H5N1 with a K193T Mutation. <i>Journal of Virology</i> , 2018 , 92,	6.6	13
38	Glycoengineering of NK Cells with Glycan Ligands of CD22 and Selectins for B-Cell Lymphoma Therapy. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 3603-3610	16.4	13
37	Migration-based selections of antibodies that convert bone marrow into trafficking microglia-like cells that reduce brain amyloid \square <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E372-E381	11.5	12
36	Human Influenza Virus Hemagglutinins Contain Conserved Oligomannose N-Linked Glycans Allowing Potent Neutralization by Lectins. <i>Cell Host and Microbe</i> , 2020 , 27, 725-735.e5	23.4	12
35	Proximity Ligation-Based Fluorogenic Imaging Agents for Neuraminidases. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 13538-13541	16.4	12
34	Unique Structural Features of Influenza Virus H15 Hemagglutinin. <i>Journal of Virology</i> , 2017 , 91,	6.6	11
33	Hemagglutinin Traits Determine Transmission of Avian A/H10N7 Influenza Virus between Mammals. <i>Cell Host and Microbe</i> , 2020 , 28, 602-613.e7	23.4	11
32	Nanoparticles Displaying Allergen and Siglec-8 Ligands Suppress IgE-Fc β I-Mediated Anaphylaxis and Desensitize Mast Cells to Subsequent Antigen Challenge. <i>Journal of Immunology</i> , 2021 , 206, 2290-2300	5.3	11
31	Genetically encoded multivalent liquid glycan array displayed on M13 bacteriophage. <i>Nature Chemical Biology</i> , 2021 , 17, 806-816	11.7	11

30	Potential for Low-Pathogenic Avian H7 Influenza A Viruses To Replicate and Cause Disease in a Mammalian Model. <i>Journal of Virology</i> , 2017 , 91,	6.6	10
29	Sialic Acid Ligands of CD28 Suppress Costimulation of T Cells. <i>ACS Central Science</i> , 2021 , 7, 1508-1515	16.8	10
28	High-Throughput Screening for Inhibitors of Sialyl- and Fucosyltransferases. <i>Angewandte Chemie</i> , 2011 , 123, 12742-12745	3.6	9
27	A Miniaturized Glycan Microarray Assay for Assessing Avidity and Specificity of Influenza A Virus Hemagglutinins. <i>Journal of Visualized Experiments</i> , 2016 ,	1.6	9
26	Murine Red Blood Cells Lack Ligands for B Cell Siglecs, Allowing Strong Activation by Erythrocyte Surface Antigens. <i>Journal of Immunology</i> , 2018 , 200, 949-956	5.3	8
25	Structural analysis of full-length SARS-CoV-2 spike protein from an advanced vaccine candidate 2020 ,		8
24	Plasticity of Amino Acid Residue 145 Near the Receptor Binding Site of H3 Swine Influenza A Viruses and Its Impact on Receptor Binding and Antibody Recognition. <i>Journal of Virology</i> , 2019 , 93,	6.6	8
23	Changes to the dynamic nature of hemagglutinin and the emergence of the 2009 pandemic H1N1 influenza virus. <i>Scientific Reports</i> , 2015 , 5, 12828	4.9	7
22	Modulation of Siglec-7 Signaling Via In Situ-Created High-Affinity -Ligands. <i>ACS Central Science</i> , 2021 , 7, 1338-1346	16.8	7
21	Efficient Chemoenzymatic Synthesis of N-Glycans with a β ,4-Galactosylated Bisecting GlcNAc Motif. <i>ChemBioChem</i> , 2020 , 21, 3212-3215	3.8	6
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13	Phenotypic Effects of Substitutions within the Receptor Binding Site of Highly Pathogenic Avian Influenza H5N1 Virus Observed during Human Infection. <i>Journal of Virology</i> , 2020 , 94,	6.6	3

12	Visualization of the HIV-1 Env Glycan Shield Across Scales		3
11	Glycoengineering of NK cells with glycan ligands of CD22 and selectins for B-cell lymphoma therapy		2
10	Genetically Encoded, Multivalent Liquid Glycan Array (LiGA)		2
9	Sialic acid ligands of CD28 block co-stimulation of T cells		2
8	Site-specific O-glycosylation analysis of SARS-CoV-2 spike protein produced in insect and human cells 2021 ,		2
7	DeGlyPHER: An Ultrasensitive Method for the Analysis of Viral Spike -Glycoforms. <i>Analytical Chemistry</i> , 2021 , 93, 13651-13657	7.8	2
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4	Glycoengineering of NK Cells with Glycan Ligands of CD22 and Selectins for B-Cell Lymphoma Therapy. <i>Angewandte Chemie</i> , 2021 , 133, 3647-3654	3.6	0
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