

James C Paulson

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/9378635/james-c-paulson-publications-by-year.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

173
papers

18,570
citations

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	Improvement of Lipoplexes With a Sialic Acid Mimetic to Target the C1858T Variant for Immunotherapy in Endocrine Autoimmunity.. <i>Frontiers in Immunology</i> , 2022 , 13, 838331	8.4	0
172	Coordinated changes in glycosylation regulate the germinal center through CD22.. <i>Cell Reports</i> , 2022 , 38, 110512	10.6	0
171	Antigenic and virological properties of an H3N2 variant that continues to dominate the 2021/22 Northern Hemisphere influenza season. <i>Cell Reports</i> , 2022 , 39, 110897	10.6	4
170	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
169	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
168	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
167	Nanoparticles Displaying Allergen and Siglec-8 Ligands Suppress IgE-FcRI-Mediated Anaphylaxis and Desensitize Mast Cells to Subsequent Antigen Challenge. <i>Journal of Immunology</i> , 2021 , 206, 2290-2300	5.3	11
166	Genetically encoded multivalent liquid glycan array displayed on M13 bacteriophage. <i>Nature Chemical Biology</i> , 2021 , 17, 806-816	11.7	11
165	Tolerogenic Nanoparticles Impacting B and T Lymphocyte Responses Delay Autoimmune Arthritis in K/BxN Mice. <i>ACS Chemical Biology</i> , 2021 , 16, 1985-1993	4.9	5
164	SIGLEC-3 (CD33) serves as an immune checkpoint receptor for HBV infection. <i>Journal of Clinical Investigation</i> , 2021 , 131,	15.9	4
163	Adaptation of influenza viruses to human airway receptors. <i>Journal of Biological Chemistry</i> , 2021 , 296, 100017	5.4	18
162	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
161	Site-specific O-glycosylation analysis of SARS-CoV-2 spike protein produced in insect and human cells 2021 ,		2
160	Sialic Acid Ligands of CD28 Suppress Costimulation of T Cells. <i>ACS Central Science</i> , 2021 , 7, 1508-1515	16.8	10
159	Modulation of Siglec-7 Signaling Via In Situ-Created High-Affinity -Ligands. <i>ACS Central Science</i> , 2021 , 7, 1338-1346	16.8	7
158	DeGlyPHER: An Ultrasensitive Method for the Analysis of Viral Spike -Glycoforms. <i>Analytical Chemistry</i> , 2021 , 93, 13651-13657	7.8	2
157	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

156	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
155	Efficient Chemoenzymatic Synthesis of N-Glycans with a β ,4-Galactosylated Bisecting GlcNAc Motif. <i>ChemBioChem</i> , 2020 , 21, 3212-3215	3.8	6
154	Siglecs as Immune Cell Checkpoints in Disease. <i>Annual Review of Immunology</i> , 2020 , 38, 365-395	34.7	126
153	Structural analysis of full-length SARS-CoV-2 spike protein from an advanced vaccine candidate 2020 ,		8
152	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
151	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
150	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
149	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
148	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
147	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
146	Exploiting CD22 To Selectively Tolerize Autoantibody Producing B-Cells in Rheumatoid Arthritis. <i>ACS Chemical Biology</i> , 2019 , 14, 644-654	4.9	16
145	Virus recognition of glycan receptors. <i>Current Opinion in Virology</i> , 2019 , 34, 117-129	7.5	62
144	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
143	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
142	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
141	Repression of phagocytosis by human CD33 is not conserved with mouse CD33. <i>Communications Biology</i> , 2019 , 2, 450	6.7	34
140	Fluorescent Trimeric Hemagglutinins Reveal Multivalent Receptor Binding Properties. <i>Journal of Molecular Biology</i> , 2019 , 431, 842-856	6.5	24
139	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

138	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
137	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
136	Enhanced Human-Type Receptor Binding by Ferret-Transmissible H5N1 with a K193T Mutation. <i>Journal of Virology</i> , 2018 , 92,	6.6	13
135	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
134	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
133	Migration-based selections of antibodies that convert bone marrow into trafficking microglia-like cells that reduce brain amyloid β <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E372-E381	11.5	12
132	Global site-specific analysis of glycoprotein N-glycan processing. <i>Nature Protocols</i> , 2018 , 13, 1196-1212	18.8	40
131	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
130	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
129	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
128	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
127	Sialylated keratan sulfate proteoglycans are Siglec-8 ligands in human airways. <i>Glycobiology</i> , 2018 , 28, 786-801	5.8	30
126	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
125	Avenues to Characterize the Interactions of Extended N-Glycans with Proteins by NMR Spectroscopy: The Influenza Hemagglutinin Case. <i>Angewandte Chemie</i> , 2018 , 130, 15271-15275	3.6	5
124	Proximity Ligation-Based Fluorogenic Imaging Agents for Neuraminidases. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 13538-13541	16.4	12
123	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
122	Differential processing of HIV envelope glycans on the virus and soluble recombinant trimer. <i>Nature Communications</i> , 2018 , 9, 3693	17.4	87
121	Proximity Ligation-Based Fluorogenic Imaging Agents for Neuraminidases. <i>Angewandte Chemie</i> , 2018 , 130, 13726-13729	3.6	5

120	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
119	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
118	Encapsulating an Immunosuppressant Enhances Tolerance Induction by Siglec-Engaging Tolerogenic Liposomes. <i>ChemBioChem</i> , 2017 , 18, 1226-1233	3.8	23
117	Unique Structural Features of Influenza Virus H15 Hemagglutinin. <i>Journal of Virology</i> , 2017 , 91,	6.6	11
116	The 150-Loop Restricts the Host Specificity of Human H10N8 Influenza Virus. <i>Cell Reports</i> , 2017 , 19, 235-245	2.5	27
115	A Broadly Neutralizing Antibody Targets the Dynamic HIV Envelope Trimer Apex via a Long, Rigidified, and Anionic Hairpin Structure. <i>Immunity</i> , 2017 , 46, 690-702	32.3	146
114	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
113	Siglec-8 and Siglec-9 binding specificities and endogenous airway ligand distributions and properties. <i>Glycobiology</i> , 2017 , 27, 657-668	5.8	47
112	Global site-specific N-glycosylation analysis of HIV envelope glycoprotein. <i>Nature Communications</i> , 2017 , 8, 14954	17.4	133
111	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
110	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
109	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
108	Three mutations switch H7N9 influenza to human-type receptor specificity. <i>PLoS Pathogens</i> , 2017 , 13, e1006390	7.6	65
107	A structural explanation for the low effectiveness of the seasonal influenza H3N2 vaccine. <i>PLoS Pathogens</i> , 2017 , 13, e1006682	7.6	143
106	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
105	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
104	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
103	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

102	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
101	A vital sugar code for ricin toxicity. <i>Cell Research</i> , 2017 , 27, 1351-1364	24.7	15
100	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
99	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
98	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
97	Siglec-F is a novel intestinal M cell marker. <i>Biochemical and Biophysical Research Communications</i> , 2016 , 479, 1-4	3.4	23
96	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
95	Recognition of microbial glycans by human intelectin-1. <i>Nature Structural and Molecular Biology</i> , 2015 , 22, 603-10	17.6	96
94	Mammalian adaptation of influenza A(H7N9) virus is limited by a narrow genetic bottleneck. <i>Nature Communications</i> , 2015 , 6, 6553	17.4	70
93	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
92	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
91	Symbol Nomenclature for Graphical Representations of Glycans. <i>Glycobiology</i> , 2015 , 25, 1323-4	5.8	585
90	Identification of Stabilizing Mutations in an H5 Hemagglutinin Influenza Virus Protein. <i>Journal of Virology</i> , 2015 , 90, 2981-92	6.6	20
89	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
88	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
87	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
86	Microbial glycan microarrays define key features of host-microbial interactions. <i>Nature Chemical Biology</i> , 2014 , 10, 470-6	11.7	156
85	Hemagglutinin receptor specificity and structural analyses of respiratory droplet-transmissible H5N1 viruses. <i>Journal of Virology</i> , 2014 , 88, 768-73	6.6	54

84	Structural evolution of glycan recognition by a family of potent HIV antibodies. <i>Cell</i> , 2014 , 159, 69-79	56.2	147
83	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
82	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
81	Siglec-mediated regulation of immune cell function in disease. <i>Nature Reviews Immunology</i> , 2014 , 14, 653-66	36.5	571
80	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
79	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
78	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
77	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
76	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
75	Characterization of H7N9 influenza A viruses isolated from humans. <i>Nature</i> , 2013 , 501, 551-5	50.4	321
74	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
73	Preferential recognition of avian-like receptors in human influenza A H7N9 viruses. <i>Science</i> , 2013 , 342, 1230-5	33.3	124
72	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
71	H5N1 receptor specificity as a factor in pandemic risk. <i>Virus Research</i> , 2013 , 178, 99-113	6.4	50
70	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
69	Synthesis of biologically active N- and O-linked glycans with multisialylated poly-N-acetylglucosamine extensions using P. damsela β -6 sialyltransferase. <i>Journal of the American Chemical Society</i> , 2013 , 135, 18280-18283	16.4	48
68	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
67	New world bats harbor diverse influenza A viruses. <i>PLoS Pathogens</i> , 2013 , 9, e1003657	7.6	825

66	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
65	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
64	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
63	Antigenic liposomes displaying CD22 ligands induce antigen-specific B cell apoptosis. <i>Journal of Clinical Investigation</i> , 2013 , 123, 3074-83	15.9	136
62	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
61	In vitro evolution of H5N1 avian influenza virus toward human-type receptor specificity. <i>Virology</i> , 2012 , 422, 105-13	3.6	149
60	Click and Pick: Identification of Sialoside Analogues for Siglec-Based Cell Targeting. <i>Angewandte Chemie</i> , 2012 , 124, 11176-11180	3.6	16
59	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
58	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
57	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
56	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
55	Glycan-targeted virus-like nanoparticles for photodynamic therapy. <i>Biomacromolecules</i> , 2012 , 13, 2333-86.9		80
54	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
53	Recognition of Sialylated Poly-N-acetyllactosamine Chains on N- and O-Linked Glycans by Human and Avian Influenza A Virus Hemagglutinins. <i>Angewandte Chemie</i> , 2012 , 124, 4944-4947	3.6	4
52	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
51	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
50	Global metabolic inhibitors of sialyl- and fucosyltransferases remodel the glycome. <i>Nature Chemical Biology</i> , 2012 , 8, 661-8	11.7	267
49	<i>Helicobacter pylori</i> 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

48	Antigen delivery to macrophages using liposomal nanoparticles targeting sialoadhesin/CD169. <i>PLoS ONE</i> , 2012 , 7, e39039	3.7	74
47	Recognition of Sialylated Poly-N-acetyllactosamine Chains on N- and O-Linked Glycans by Human and Avian Influenza A Virus Hemagglutinins 2012 , 51, 4860		1
46	Glycan microarrays for decoding the glycome. <i>Annual Review of Biochemistry</i> , 2011 , 80, 797-823	29.1	350
45	High-Throughput Screening for Inhibitors of Sialyl- and Fucosyltransferases. <i>Angewandte Chemie</i> , 2011 , 123, 12742-12745	3.6	9
44	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
43	CD22 regulates adaptive and innate immune responses of B cells. <i>Journal of Innate Immunity</i> , 2011 , 3, 411-9	6.9	37
42	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
41	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
40	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
39	In vivo targeting of B-cell lymphoma with glycan ligands of CD22. <i>Blood</i> , 2010 , 115, 4778-86	2.2	155
38	Noninvasive Imaging of Dendrimer-Type N-Glycan Clusters: In Vivo Dynamics Dependence on Oligosaccharide Structure. <i>Angewandte Chemie</i> , 2010 , 122, 8371-8376	3.6	6
37	Siglecs as targets for therapy in immune-cell-mediated disease. <i>Trends in Pharmacological Sciences</i> , 2009 , 30, 240-8	13.2	159
36	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
35	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
34	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
33	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
32	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
31	Protein Scaffolds for Multivalent Display of High-Affinity CD22 Ligands. <i>FASEB Journal</i> , 2008 , 22, 810.1	0.9	

30	Synthesis of 9-Substituted Sialic Acids as Probes for CD22-Ligand Interactions on B Cells. <i>ACS Symposium Series</i> , 2007 , 2-14	0.4	1
29	Siglecs and their roles in the immune system. <i>Nature Reviews Immunology</i> , 2007 , 7, 255-66	36.5	1334
28	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
27	Innate immune response triggers lupus-like autoimmune disease. <i>Cell</i> , 2007 , 130, 589-91	56.2	23
26	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
25	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
24	Structure and receptor specificity of the hemagglutinin from an H5N1 influenza virus. <i>Science</i> , 2006 , 312, 404-10	33.3	786
23	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
22	Sweet spots in functional glycomics. <i>Nature Chemical Biology</i> , 2006 , 2, 238-48	11.7	327
21	Ablation of CD22 in ligand-deficient mice restores B cell receptor signaling. <i>Nature Immunology</i> , 2006 , 7, 199-206	19.1	118
20	Glycan microarray technologies: tools to survey host specificity of influenza viruses. <i>Nature Reviews Microbiology</i> , 2006 , 4, 857-64	22.2	286
19	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
18	Glycomics: an integrated systems approach to structure-function relationships of glycans. <i>Nature Methods</i> , 2005 , 2, 817-24	21.6	373
17	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
16	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
15	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
14	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
13	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

12	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
11	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
10	Systematic nomenclature for sialyltransferases. <i>Glycobiology</i> , 1996 , 6, v-vii	5.8	136
9	Receptor specificity in human, avian, and equine H2 and H3 influenza virus isolates. <i>Virology</i> , 1994 , 205, 17-23	3.6	622
8	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
7	Conformational analysis of sialyloligosaccharides. <i>Carbohydrate Research</i> , 1991 , 218, 27-54	2.9	62
6	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
5	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
4	Glycoengineering of NK cells with glycan ligands of CD22 and selectins for B-cell lymphoma therapy		2
3	Genetically Encoded, Multivalent Liquid Glycan Array (LiGA)		2
2	Visualization of the HIV-1 Env Glycan Shield Across Scales		3
1	Sialic acid ligands of CD28 block co-stimulation of T cells		2