Jeffrey C Gildersleeve

List of Publications by Year
in descending order

75 papers	3,476 citations	136950 32 h-index	144013 57 g-index
81 all docs	81 docs citations	81 times ranked	3857 citing authors

#	Article	IF	Citations
1	Carbohydrate microarrays. Chemical Society Reviews, 2013, 42, 4310-4326.	38.1	230
2	Glycan arrays: recent advances and future challenges. Current Opinion in Chemical Biology, 2009, 13, 406-413.	6.1	207
3	High-Throughput Carbohydrate Microarray Analysis of 24 Lectins. Angewandte Chemie - International Edition, 2006, 45, 3607-3610.	13.8	155
4	Microarrays with Varying Carbohydrate Density Reveal Distinct Subpopulations of Serum Antibodies. Journal of Proteome Research, 2009, 8, 3529-3538.	3.7	152
5	High-throughput carbohydrate microarray profiling of 27 antibodies demonstrates widespread specificity problems. Glycobiology, 2007, 17, 17C-23C.	2.5	144
6	Profiling Human Serum Antibodies with a Carbohydrate Antigen Microarray. Journal of Proteome Research, 2009, 8, 4301-4310.	3.7	144
7	Mechanistic Studies and Methods To Prevent Aglycon Transfer of Thioglycosides. Journal of the American Chemical Society, 2006, 128, 11612-11619.	13.7	137
8	GlyGen: Computational and Informatics Resources for Glycoscience. Glycobiology, 2020, 30, 72-73.	2.5	123
9	Cross-platform comparison of glycan microarray formats. Glycobiology, 2014, 24, 507-517.	2.5	114
10	Modifications of Glycans: Biological Significance and Therapeutic Opportunities. ACS Chemical Biology, 2012, 7, 31-43.	3.4	110
11	Perspectives on Anti-Glycan Antibodies Gleaned from Development of a Community Resource Database. ACS Chemical Biology, 2016, 11, 1773-1783.	3.4	110
12	Carbohydrate Array Analysis of Anti-Tn Antibodies and Lectins Reveals Unexpected Specificities: Implications for Diagnostic and Vaccine Development. ChemBioChem, 2005, 6, 2229-2241.	2.6	100
13	Improved Procedure for Direct Coupling of Carbohydrates to Proteins via Reductive Amination. Bioconjugate Chemistry, 2008, 19, 1485-1490.	3.6	86
14	An Array-Based Method To Identify Multivalent Inhibitors. Journal of the American Chemical Society, 2010, 132, 9653-9662.	13.7	85
15	Boosting Immunity to Small Tumor-Associated Carbohydrates with Bacteriophage QÎ² Capsids. ACS Chemical Biology, 2013, 8, 1253-1262.	3.4	81
16	A simple strategy for the creation of a recombinant lectin microarray. Molecular BioSystems, 2008, 4, 654.	2.9	77
17	Tobacco Mosaic Virus as a New Carrier for Tumor Associated Carbohydrate Antigens. Bioconjugate Chemistry, 2012, 23, 1694-1703.	3.6	72
18	Resolving conflicting data on expression of the Tn antigen and implications for clinical trials with cancer vaccines. Molecular Cancer Therapeutics, 2009, 8, 971-979.	4.1	57

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19	Enhanced Epimerization of Glycosylated Amino Acids During Solid-Phase Peptide Synthesis. Journal of the American Chemical Society, 2012, 134, 6316-6325.	13.7	55
20	Discovery of sialyl Lewis A and Lewis X modified protein cancer biomarkers using high density antibody arrays. Journal of Proteomics, 2014, 96, 291-299.	2.4	55
21	Factors Affecting Anti-Glycan IgG and IgM Repertoires in Human Serum. Scientific Reports, 2016, 6, 19509.	3.3	53
22	Sugar-Binding Proteins from Fish: Selection of High Affinity â€œLambodiesâ€•That Recognize Biomedically Relevant Glycans. ACS Chemical Biology, 2013, 8, 152-160.	3.4	51
23	Serum Antibodies to Blood Group A Predict Survival on PROSTVAC-VF. Clinical Cancer Research, 2013, 19, 1290-1299.	7.0	50
24	Significant Impact of Immunogen Design on the Diversity of Antibodies Generated by Carbohydrate-Based Anticancer Vaccine. ACS Chemical Biology, 2015, 10, 2364-2372.	3.4	50
25	Whole-Cell Cancer Vaccines Induce Large Antibody Responses to Carbohydrates and Glycoproteins. Cell Chemical Biology, 2016, 23, 1515-1525.	5.2	45
26	Enterotoxigenic Escherichia coliâ€“blood group A interactions intensify diarrheal severity. Journal of Clinical Investigation, 2018, 128, 3298-3311.	8.2	45
27	Glycan microarrays: Powerful tools for biomarker discovery. Cancer Biomarkers, 2014, 14, 29-41.	1.7	43
28	Construction and Use of Glycan Microarrays. Current Protocols in Chemical Biology, 2010, 2, 37-53.	1.7	42
29	Humoral response to a viral glycan correlates with survival on PROSTVAC-VF. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E1749-58.	7.1	41
30	Multidimensional glycan arrays for enhanced antibody profiling. Molecular BioSystems, 2010, 6, 1583.	2.9	39
31	Recognition of the Thomsen-Friedenreich Pancarcinoma Carbohydrate Antigen by a Lamprey Variable Lymphocyte Receptor. Journal of Biological Chemistry, 2013, 288, 23597-23606.	3.4	37
32	Competition between Serum IgG, IgM, and IgA Anti-Glycan Antibodies. PLoS ONE, 2015, 10, e0119298.	2.5	35
33	GalNAcÎ±1â€³Gal, a new prognostic marker for cervical cancer. International Journal of Cancer, 2010, 126, 459-468.	5.1	32
34	Factors contributing to variability of glycan microarray binding profiles. Faraday Discussions, 2019, 219, 90-111.	3.2	32
35	Application of carbohydrate array technology to antigen discovery and vaccine development. Expert Review of Vaccines, 2007, 6, 957-969.	4.4	31
36	Effects of Hapten Density on the Induced Antibody Repertoire. ChemBioChem, 2010, 11, 1686-1691.	2.6	26

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37	Structural analysis and unique molecular recognition properties of a BauhiniaÂforficata lectin that inhibits cancer cell growth. FEBS Journal, 2017, 284, 429-450.	4.7	26
38	Development of a Multiplex Glycan Microarray Assay and Comparative Analysis of Human Serum Anti-Glycan IgA, IgG, and IgM Repertoires. ACS Omega, 2018, 3, 16882-16891.	3.5	24
39	GalNAc-Tyrosine Is a Ligand of Plant Lectins, Antibodies, and Human and Murine Macrophage Galactose-Type Lectins. ACS Chemical Biology, 2017, 12, 2172-2182.	3.4	23
40	An armedâ€“disarmed approach for blocking aglycon transfer of thioglycosides. Tetrahedron Letters, 2007, 48, 559-562.	1.4	22
41	Anti-glycan antibodies: roles in human disease. Biochemical Journal, 2021, 478, 1485-1509.	3.7	22
42	Biodistribution and Excretion of Monosaccharideâ^'Albumin Conjugates Measured with in Vivo Near-Infrared Fluorescence Imaging. Bioconjugate Chemistry, 2010, 21, 1925-1932.	3.6	21
43	General Procedure for the Synthesis of Neoglycoproteins and Immobilization on Epoxide-Modified Glass Slides. Methods in Molecular Biology, 2012, 808, 155-165.	0.9	21
44	Diverse molecular recognition properties of blood group A binding monoclonal antibodies. Glycobiology, 2016, 26, 443-448.	2.5	21
45	Chemoenzymatic Synthesis of 9NHAcâ€GD2 Antigen to Overcome the Hydrolytic Instability of Oâ€Acetylatedâ€GD2 for Anticancer Conjugate Vaccine Development. Angewandte Chemie - International Edition, 2021, 60, 24179-24188.	13.8	21
46	The Glycan Array Platform as a Tool to Identify Carbohydrate Antigens. Methods in Molecular Biology, 2015, 1331, 27-40.	0.9	21
47	Evaluation of human antibody responses to keyhole limpet hemocyanin on a carbohydrate microarray. Proteomics - Clinical Applications, 2010, 4, 285-294.	1.6	20
48	ABO blood type correlates with survival on prostate cancer vaccine therapy. Oncotarget, 2015, 6, 32244-32256.	1.8	18
49	Evaluation of Riproximin Binding Properties Reveals a Novel Mechanism for Cellular Targeting*. Journal of Biological Chemistry, 2012, 287, 35873-35886.	3.4	17
50	A Tumor-Selective Monoclonal Antibody from Immunization with a Tumor-Associated Mucin Glycopeptide. Scientific Reports, 2019, 9, 5662.	3.3	17
51	Activation of glycosyl trichloroacetimidates with perchloric acid on silica (HClO4â€“SiO2) provides enhanced Î±-selectivity. Carbohydrate Research, 2010, 345, 2074-2078.	2.3	16
52	Divergent Behavior of Glycosylated Threonine and Serine Derivatives in Solid Phase Peptide Synthesis. Organic Letters, 2012, 14, 3958-3961.	4.6	16
53	Therapeutic Antibodies to Ganglioside GD2 Evolved from Highly Selective Germline Antibodies. Cell Reports, 2017, 20, 1681-1691.	6.4	16
54	Enterotoxigenic Escherichia coli Degrades the Host MUC2 Mucin Barrier To Facilitate Critical Pathogen-Enterocyte Interactions in Human Small Intestine. Infection and Immunity, 2022, 90, IAI0057221.	2.2	16

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55	Anti-glycan IgM repertoires in newborn human cord blood. PLoS ONE, 2019, 14, e0218575.	2.5	15
56	Glycan array analysis of the antigen repertoire targeted by tumor-binding antibodies. Bioorganic and Medicinal Chemistry Letters, 2012, 22, 6839-6843.	2.2	14
57	Photo- and Biophysical Studies of Lectin-Conjugated Fluorescent Nanoparticles: Reduced Sensitivity in High Density Assaysâ€. Journal of Physical Chemistry B, 2010, 114, 14487-14494.	2.6	13
58	Serum glycan-binding IgG antibodies in HIV-1 infection and during the development of broadly neutralizing responses. Aids, 2017, 31, 2199-2209.	2.2	13
59	High-Throughput Profiling of Anti-Glycan Humoral Responses to SIV Vaccination and Challenge. PLoS ONE, 2013, 8, e75302.	2.5	11
60	Development and validation of a Luminex assay for detection of a predictive biomarker for PROSTVAC-VF therapy. PLoS ONE, 2017, 12, e0182739.	2.5	11
61	Anti-Human Embryonic Stem Cell Monoclonal Antibody Hesca-2 Binds to a Glycan Epitope Commonly Found on Carcinomas. Stem Cells and Development, 2011, 20, 515-525.	2.1	8
62	Synthesis and Immunological Study of N-Glycan-Bacteriophage QÎ² Conjugates Reveal Dominant Antibody Responses to the Conserved Chitobiose Core. Bioconjugate Chemistry, 2022, 33, 1350-1362.	3.6	6
63	General Strategies for Glycan Microarray Data Processing and Analysis. Methods in Molecular Biology, 2022, 2460, 67-87.	0.9	5
64	Abnormal antibodies to self-carbohydrates in SARS-CoV-2-infected patients. , 2022, 1, .		5
65	Supplier-dependent antiglycan monoclonal antibody specificities: Comment on "High-throughput carbohydrate microarray profiling of 27 antibodies demonstrates widespread specificity problems". Glycobiology, 2008, 18, 746-746.	2.5	4
66	MAb L9E10 to Blood Group H2 Antigen Binds to Colon Cancer Stem Cells and Inhibits Tumor Cell Migration and Invasion. Hybridoma, 2010, 29, 355-359.	0.4	4
67	Profiling natural serum antibodies of nonâ€human primates with a carbohydrate antigen microarray. Xenotransplantation, 2020, 27, e12567.	2.8	4
68	Selective Recognition of Carbohydrate Antigens by Germline Antibodies Isolated from AID Knockout Mice. Journal of the American Chemical Society, 2022, 144, 4925-4941.	13.7	4
69	Carbohydrate antigen microarray analysis of serum IgG and IgM antibodies before and after adult porcine islet xenotransplantation in cynomolgus macaques. PLoS ONE, 2021, 16, e0253029.	2.5	3
70	Carb loading strategy is spot on. Nature Chemical Biology, 2012, 8, 741-742.	8.0	2
71	Insights into Antibody-Carbohydrate Recognition from Neoglycoprotein Microarrays. ACS Symposium Series, 2020, , 23-37.	0.5	2
72	Glycan Arrays: Construction, Detection, and Analysis. , 2021, , 116-133.		2

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73	Chemoenzymatic Synthesis of 9NHAcâ€GD2 Antigen to Overcome the Hydrolytic Instability of Oâ€Acetylatedâ€GD2 for Anticancer Conjugate Vaccine Development. Angewandte Chemie, 2021, 133, 24381.	2.0	2
74	Enhanced Binding and Reduced Immunogenicity of Glycoconjugates Prepared via Solid-State Photoactivation of Aliphatic Diazirine Carbohydrates. Bioconjugate Chemistry, 2021, 32, 133-142.	3.6	1
75	Glycan interactions on glycocalyx mimetic surfaces: general discussion. Faraday Discussions, 2019, 219, 183-188.	3.2	0