

Chung-Yi Wu

List of Publications by Citations

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

81

papers

3,882

citations

35

h-index

62

g-index

88

ext. papers

4,350

ext. citations

9.2

avg, IF

5.14

L-index

#	Paper	IF	Citations
81	Small molecules targeting severe acute respiratory syndrome human coronavirus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 10012-7	11.5	368
80	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
79	Glycans on influenza hemagglutinin affect receptor binding and immune response. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 18137-42	11.5	240
78	Toward automated oligosaccharide synthesis. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 11872-6	20.23	215
77	Highly alpha-selective sialyl phosphate donors for efficient preparation of natural sialosides. <i>Chemistry - A European Journal</i> , 2010 , 16, 1754-60	4.8	143
76	Glycan arrays: biological and medical applications. <i>Current Opinion in Chemical Biology</i> , 2008 , 12, 86-92	9.7	140
75	A common glycan structure on immunoglobulin G for enhancement of effector functions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 10611-6	11.5	137
74	Glycan microarray of Globo H and related structures for quantitative analysis of breast cancer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 11661-6	11.5	131
73	Carbohydrate-based vaccines with a glycolipid adjuvant for breast cancer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 2517-22	11.5	122
72	Rapid diversity-oriented synthesis in microtiter plates for in situ screening: discovery of potent and selective alpha-fucosidase inhibitors. <i>Angewandte Chemie - International Edition</i> , 2003 , 42, 4661-4	16.4	97
71	Stable benzotriazole esters as mechanism-based inactivators of the severe acute respiratory syndrome 3CL protease. <i>Chemistry and Biology</i> , 2006 , 13, 261-8		96
70	Modular synthesis of N-glycans and arrays for the hetero-ligand binding analysis of HIV antibodies. <i>Nature Chemistry</i> , 2016 , 8, 338-46	17.6	80
69	Differential receptor binding affinities of influenza hemagglutinins on glycan arrays. <i>Journal of the American Chemical Society</i> , 2010 , 132, 14849-56	16.4	79
68	Iron oxide/gold core/shell nanoparticles for ultrasensitive detection of carbohydrate-protein interactions. <i>Analytical Chemistry</i> , 2009 , 81, 7750-6	7.8	79
67	Stage-specific embryonic antigen-4 as a potential therapeutic target in glioblastoma multiforme and other cancers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 2482-7	11.5	77
66	Efficient convergent synthesis of bi-, tri-, and tetra-antennary complex type N-glycans and their HIV-1 antigenicity. <i>Journal of the American Chemical Society</i> , 2013 , 135, 15382-91	16.4	74
65	Effective sugar nucleotide regeneration for the large-scale enzymatic synthesis of Globo H and SSEA4. <i>Journal of the American Chemical Society</i> , 2013 , 135, 14831-9	16.4	72

64	Chemistry and glycobiology. <i>Chemical Communications</i> , 2011 , 47, 6201-7	5.8	67
63	The SUMOylation of matrix protein M1 modulates the assembly and morphogenesis of influenza A virus. <i>Journal of Virology</i> , 2011 , 85, 6618-28	6.6	66
62	Effects of neighboring glycans on antibody-carbohydrate interaction. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 1608-12	16.4	60
61	Efficient and stereoselective synthesis of (2-9) oligosialic acids: from monomers to dodecamers. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 9391-5	16.4	59
60	Reactivity-based one-pot synthesis of the tumor-associated antigen N3 minor octasaccharide for the development of a photocleavable DIOS-MS sugar array. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 2753-7	16.4	58
59	Microtiter plate based chemistry and in situ screening: a useful approach for rapid inhibitor discovery. <i>Organic and Biomolecular Chemistry</i> , 2006 , 4, 1446-57	3.9	58
58	Synthetic carbohydrate-based vaccines: challenges and opportunities. <i>Journal of Biomedical Science</i> , 2020 , 27, 9	13.3	58
57	Glycan array on aluminum oxide-coated glass slides through phosphonate chemistry. <i>Journal of the American Chemical Society</i> , 2010 , 132, 13371-80	16.4	57
56	New development of glycan arrays. <i>Organic and Biomolecular Chemistry</i> , 2009 , 7, 2247-54	3.9	55
55	Downregulation of microRNA-15b by hepatitis B virus X enhances hepatocellular carcinoma proliferation via fucosyltransferase 2-induced Globo H expression. <i>International Journal of Cancer</i> , 2014 , 134, 1638-47	7.5	54
54	Auf dem Weg zur automatisierten Oligosaccharid- Synthese. <i>Angewandte Chemie</i> , 2011 , 123, 12076-12123	3.9	47
53	Influenza A surface glycosylation and vaccine design. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 280-285	11.5	46
52	Hierarchical and programmable one-pot synthesis of oligosaccharides. <i>Nature Communications</i> , 2018 , 9, 5202	17.4	44
51	Vaccination of monoglycosylated hemagglutinin induces cross-strain protection against influenza virus infections. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 2476-81	11.5	42
50	Immunogenicity study of Globo H analogues with modification at the reducing or nonreducing end of the tumor antigen. <i>Journal of the American Chemical Society</i> , 2014 , 136, 16844-53	16.4	42
49	Cancer-associated carbohydrate antigens as potential biomarkers for hepatocellular carcinoma. <i>PLoS ONE</i> , 2012 , 7, e39466	3.7	42
48	Synthesis of Neisseria meningitidis serogroup W135 capsular oligosaccharides for immunogenicity comparison and vaccine development. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 9157-61	16.4	42
47	Carbohydrate-based vaccines: challenges and opportunities. <i>Expert Review of Vaccines</i> , 2010 , 9, 1257-74	5.2	41

46	Glycan array: a powerful tool for glycomics studies. <i>Expert Review of Proteomics</i> , 2009 , 6, 631-45	4.2	34
45	Programmable one-pot glycosylation. <i>Topics in Current Chemistry</i> , 2011 , 301, 223-52		33
44	Signaling pathway of globo-series glycosphingolipids and β 1,3-galactosyltransferase V (β GalT5) in breast cancer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 3518-3523	11.5	31
43	Glycans Function as Anchors for Antibodies and Help Drive HIV Broadly Neutralizing Antibody Development. <i>Immunity</i> , 2017 , 47, 524-537.e3	32.3	29
42	Chemical constituents of <i>Plectranthus amboinicus</i> and the synthetic analogs possessing anti-inflammatory activity. <i>Bioorganic and Medicinal Chemistry</i> , 2014 , 22, 1766-72	3.4	28
41	Synthesis of Sialidase-Resistant Oligosaccharide and Antibody Glycoform Containing β 2,6-Linked 3F-Neu5Ac. <i>Journal of the American Chemical Society</i> , 2019 , 141, 6484-6488	16.4	27
40	Structural basis for fragmenting the exopolysaccharide of <i>Acinetobacter baumannii</i> by bacteriophage Δ B6 tailspike protein. <i>Scientific Reports</i> , 2017 , 7, 42711	4.9	26
39	An Effective Bacterial Fucosidase for Glycoprotein Remodeling. <i>ACS Chemical Biology</i> , 2017 , 12, 63-72	4.9	25
38	Glycan arrays on aluminum-coated glass slides. <i>Chemistry - an Asian Journal</i> , 2008 , 3, 1395-405	4.5	22
37	Development of glycosynthases with broad glycan specificity for the efficient glyco-remodeling of antibodies. <i>Chemical Communications</i> , 2018 , 54, 6161-6164	5.8	21
36	Crystal Structure of a Homogeneous IgG-Fc Glycoform with the N-Glycan Designed to Maximize the Antibody Dependent Cellular Cytotoxicity. <i>ACS Chemical Biology</i> , 2017 , 12, 1335-1345	4.9	20
35	Investigation of SSEA-4 binding protein in breast cancer cells. <i>Journal of the American Chemical Society</i> , 2013 , 135, 5934-7	16.4	20
34	Tetrabutylammonium fluoride-mediated rapid alkylation reaction in microtiter plates for the discovery of enzyme inhibitors in situ. <i>ChemBioChem</i> , 2005 , 6, 2176-80	3.8	18
33	Development of a highly sensitive glycan microarray for quantifying AFP-L3 for early prediction of hepatitis B virus-related hepatocellular carcinoma. <i>PLoS ONE</i> , 2014 , 9, e99959	3.7	18
32	Pseudaminic Acid on Exopolysaccharide of <i>Acinetobacter baumannii</i> Plays a Critical Role in Phage-Assisted Preparation of Glycoconjugate Vaccine with High Antigenicity. <i>Journal of the American Chemical Society</i> , 2018 , 140, 8639-8643	16.4	17
31	Programmable one-pot synthesis of tumor-associated carbohydrate antigens Lewis X dimer and KH-1 epitopes. <i>Tetrahedron Letters</i> , 2011 , 52, 2132-2135	2	15
30	Programmable One-Pot Synthesis of Oligosaccharides. <i>Biochemistry</i> , 2020 , 59, 3078-3088	3.2	14
29	Effects of Neighboring Glycans on Antibody-Carbohydrate Interaction. <i>Angewandte Chemie</i> , 2011 , 123, 1646-1650	3.6	13

28	Rapid Identification of Terminal Sialic Acid Linkage Isomers by Pseudo-MS3 Mass Spectrometry. <i>Israel Journal of Chemistry</i> , 2015 , 55, 412-422	3.4	12
27	Efficient and Stereoselective Synthesis of (2-9) Oligosialic Acids: From Monomers to Dodecamers. <i>Angewandte Chemie</i> , 2011 , 123, 9563-9567	3.6	12
26	A cross-neutralizing antibody between HIV-1 and influenza virus. <i>PLoS Pathogens</i> , 2021 , 17, e1009407	7.6	9
25	Rapid Diversity-Oriented Synthesis in Microtiter Plates for In Situ Screening: Discovery of Potent and Selective β -Fucosidase Inhibitors. <i>Angewandte Chemie</i> , 2003 , 115, 4809-4812	3.6	8
24	Synthesis of Neisseria meningitidis Serogroup W135 Capsular Oligosaccharides for Immunogenicity Comparison and Vaccine Development. <i>Angewandte Chemie</i> , 2013 , 125, 9327-9331	3.6	7
23	Design of Disaccharide Modules for a Programmable One-Pot Synthesis of Building Blocks with LacNAc Repeating Units for Asymmetric N-Glycans. <i>Asian Journal of Organic Chemistry</i> , 2017 , 6, 1800-1807	3.7	7
22	Reactivity-Based One-Pot Synthesis of the Tumor-Associated Antigen N3 Minor Octasaccharide for the Development of a Photocleavable DIOS-MS Sugar Array. <i>Angewandte Chemie</i> , 2006 , 118, 2819-2823	3.6	7
21	A Synthetic Carbohydrate-Protein Conjugate Vaccine Candidate against Serotype K2. <i>Journal of Organic Chemistry</i> , 2020 , 85, 15964-15997	4.2	6
20	Synthesis of Asymmetric α -Glycans as Common Core Substrates for Structural Diversification through Selective Enzymatic Glycosylation. <i>ACS Chemical Biology</i> , 2020 , 15, 2382-2394	4.9	5
19	Structural identification of N-glycan isomers using logically derived sequence tandem mass spectrometry. <i>Communications Chemistry</i> , 2021 , 4,	6.3	5
18	SIGLEC-3 (CD33) serves as an immune checkpoint receptor for HBV infection. <i>Journal of Clinical Investigation</i> , 2021 , 131,	15.9	4
17	Preparation of Aluminum Oxide-Coated Glass Slides for Glycan Microarrays. <i>ACS Omega</i> , 2016 , 1, 773-783	3.9	2
16	Chemical Synthesis of Sialosides 2017 , 355-370		1
15	Chemo-enzymatic Synthesis of N-glycans for Array Development and HIV Antibody Profiling. <i>Journal of Visualized Experiments</i> , 2018 ,	1.6	1
14	DISCOVERIES AND APPLICATIONS OF GLYCAN ARRAYS 2016 , 407-424		1
13	Glycan Based Vaccines 2022 ,		1
12	Innovative finding of 266-nm laser regulating CD90 levels in SDSCs. <i>Scientific Reports</i> , 2021 , 11, 13932	4.9	1
11	Development of biotinylated and magnetic bead-immobilized enzymes for efficient glyco-engineering and isolation of antibodies. <i>Bioorganic Chemistry</i> , 2021 , 112, 104863	5.1	1

- 10 Structural and biological insights into *Klebsiella pneumoniae* surface polysaccharide degradation by a bacteriophage K1 lyase: implications for clinical use.. *Journal of Biomedical Science*, **2022**, 29, 9 13.3 ○
- 9 Enhancement of fucosylated N-glycan isomer separation with an ultrahigh column temperature in porous graphitic carbon liquid chromatography-mass spectrometry. *Journal of Chromatography A*, **2020**, 1632, 461610 4.5 ○
- 8 Immunogenicity Evaluation of N-Glycans Recognized by HIV Broadly Neutralizing Antibodies. *ACS Chemical Biology*, **2021**, 16, 2016-2025 4.9 ○
- 7 Preparation of Glycan Array and Its Applications **2014**, 1-8
- 6 Automation in Glycan Synthesis **2014**, 1-7
- 5 Preparation of Glycan Array and Its Applications **2015**, 35-43
- 4 Automated Programmable One-Pot Synthesis of Glycans **2015**, 45-52
- 3 Automation in Glycan Synthesis **2015**, 345-351
- 2 Automated Programmable One-Pot Synthesis of Glycans **2014**, 1-7
- 1 Synthesis of Azido-Globo H Analogs for Immunogenicity Evaluation.. *ACS Central Science*, **2022**, 8, 77-85 16.8