

Chung-Yi Wu

List of Publications by Year in Descending Order

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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	Glycan Based Vaccines 2022 ,		1
80	Structural and biological insights into Klebsiella pneumoniae surface polysaccharide degradation by a bacteriophage K1 lyase: implications for clinical use.. <i>Journal of Biomedical Science</i> , 2022 , 29, 9	13.3	0
79	Synthesis of Azido-Globo H Analogs for Immunogenicity Evaluation.. <i>ACS Central Science</i> , 2022 , 8, 77-85	16.8	
78	A cross-neutralizing antibody between HIV-1 and influenza virus. <i>PLoS Pathogens</i> , 2021 , 17, e1009407	7.6	9
77	Structural identification of N-glycan isomers using logically derived sequence tandem mass spectrometry. <i>Communications Chemistry</i> , 2021 , 4,	6.3	5
76	SIGLEC-3 (CD33) serves as an immune checkpoint receptor for HBV infection. <i>Journal of Clinical Investigation</i> , 2021 , 131,	15.9	4
75	Innovative finding of 266-nm laser regulating CD90 levels in SDSCs. <i>Scientific Reports</i> , 2021 , 11, 13932	4.9	1
74	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
73	Immunogenicity Evaluation of N-Glycans Recognized by HIV Broadly Neutralizing Antibodies. <i>ACS Chemical Biology</i> , 2021 , 16, 2016-2025	4.9	0
72	Synthetic carbohydrate-based vaccines: challenges and opportunities. <i>Journal of Biomedical Science</i> , 2020 , 27, 9	13.3	58
71	Enhancement of fucosylated N-glycan isomer separation with an ultrahigh column temperature in porous graphitic carbon liquid chromatography-mass spectrometry. <i>Journal of Chromatography A</i> , 2020 , 1632, 461610	4.5	0
70	A Synthetic Carbohydrate-Protein Conjugate Vaccine Candidate against Serotype K2. <i>Journal of Organic Chemistry</i> , 2020 , 85, 15964-15997	4.2	6
69	Synthesis of Asymmetric -Glycans as Common Core Substrates for Structural Diversification through Selective Enzymatic Glycosylation. <i>ACS Chemical Biology</i> , 2020 , 15, 2382-2394	4.9	5
68	Programmable One-Pot Synthesis of Oligosaccharides. <i>Biochemistry</i> , 2020 , 59, 3078-3088	3.2	14
67	Synthesis of Sialidase-Resistant Oligosaccharide and Antibody Glycoform Containing α ,6-Linked 3F-Neu5Ac. <i>Journal of the American Chemical Society</i> , 2019 , 141, 6484-6488	16.4	27
66	Signaling pathway of globo-series glycosphingolipids and β ,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
65	Chemo-enzymatic Synthesis of N-glycans for Array Development and HIV Antibody Profiling. <i>Journal of Visualized Experiments</i> , 2018 ,	1.6	1

64	Hierarchical and programmable one-pot synthesis of oligosaccharides. <i>Nature Communications</i> , 2018 , 9, 5202	17.4	44
63	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
62	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
61	Chemical Synthesis of Sialosides 2017 , 355-370		1
60	Structural basis for fragmenting the exopolysaccharide of <i>Acinetobacter baumannii</i> by bacteriophage Φ B6 tailspike protein. <i>Scientific Reports</i> , 2017 , 7, 42711	4.9	26
59	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
58	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
57	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		7
56	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
55	An Effective Bacterial Fucosidase for Glycoprotein Remodeling. <i>ACS Chemical Biology</i> , 2017 , 12, 63-72	4.9	25
54	DISCOVERIES AND APPLICATIONS OF GLYCAN ARRAYS 2016 , 407-424		1
53	Preparation of Aluminum Oxide-Coated Glass Slides for Glycan Microarrays. <i>ACS Omega</i> , 2016 , 1, 773-783.9		2
52	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
51	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
50	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
49	Preparation of Glycan Array and Its Applications 2015 , 35-43		
48	Automated Programmable One-Pot Synthesis of Glycans 2015 , 45-52		
47	Automation in Glycan Synthesis 2015 , 345-351		

46	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
45	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
44	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
43	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
42	Preparation of Glycan Array and Its Applications 2014 , 1-8		
41	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
40	Automation in Glycan Synthesis 2014 , 1-7		
39	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
38	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
37	Automated Programmable One-Pot Synthesis of Glycans 2014 , 1-7		
36	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
35	Synthesis of <i>Neisseria meningitidis</i> Serogroup W135 Capsular Oligosaccharides for Immunogenicity Comparison and Vaccine Development. <i>Angewandte Chemie</i> , 2013 , 125, 9327-9331	3.6	7
34	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
33	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
32	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
31	Synthesis of <i>Neisseria meningitidis</i> serogroup W135 capsular oligosaccharides for immunogenicity comparison and vaccine development. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 9157-61	16.4	42
30	Cancer-associated carbohydrate antigens as potential biomarkers for hepatocellular carcinoma. <i>PLoS ONE</i> , 2012 , 7, e39466	3.7	42
29	Effects of Neighboring Glycans on Antibody-Carbohydrate Interaction. <i>Angewandte Chemie</i> , 2011 , 123, 1646-1650	3.6	13

28	Auf dem Weg zur automatisierten Oligosaccharid- Synthese. <i>Angewandte Chemie</i> , 2011 , 123, 12076-12123	3.6	47
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	Effects of neighboring glycans on antibody-carbohydrate interaction. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 1608-12	16.4	60
25	Toward automated oligosaccharide synthesis. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 11872-11873	16.4	215
24	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
23	Programmable one-pot glycosylation. <i>Topics in Current Chemistry</i> , 2011 , 301, 223-52		33
22	Chemistry and glycobiology. <i>Chemical Communications</i> , 2011 , 47, 6201-7	5.8	67
21	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
20	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
19	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
18	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
17	Carbohydrate-based vaccines: challenges and opportunities. <i>Expert Review of Vaccines</i> , 2010 , 9, 1257-74	5.2	41
16	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
15	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
14	Iron oxide/gold core/shell nanoparticles for ultrasensitive detection of carbohydrate-protein interactions. <i>Analytical Chemistry</i> , 2009 , 81, 7750-6	7.8	79
13	Glycan array: a powerful tool for glycomics studies. <i>Expert Review of Proteomics</i> , 2009 , 6, 631-45	4.2	34
12	New development of glycan arrays. <i>Organic and Biomolecular Chemistry</i> , 2009 , 7, 2247-54	3.9	55
11	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

10	Glycan arrays: biological and medical applications. <i>Current Opinion in Chemical Biology</i> , 2008 , 12, 86-92	9.7	140
9	Glycan arrays on aluminum-coated glass slides. <i>Chemistry - an Asian Journal</i> , 2008 , 3, 1395-405	4.5	22
8	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
7	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
6	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
5	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
4	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
3	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
2	Rapid Diversity-Oriented Synthesis in Microtiter Plates for In Situ Screening: Discovery of Potent and Selective α -Fucosidase Inhibitors. <i>Angewandte Chemie</i> , 2003 , 115, 4809-4812	3.6	8
1	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