

Chi-Huey Wong

List of Publications by Year in descending order

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417
papers

38,517
citations

1697

104
h-index

3815

178
g-index

455
all docs

455
docs citations

455
times ranked

26742
citing authors

#	ARTICLE	IF	CITATIONS
1	Broad neutralization coverage of HIV by multiple highly potent antibodies. <i>Nature</i> , 2011, 477, 466-470.	13.7	1,397
2	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, 17033-17038.	3.3	1,039
3	Enzymes for chemical synthesis. <i>Nature</i> , 2001, 409, 232-240.	13.7	841
4	The Catalytic Asymmetric Aldol Reaction. <i>Angewandte Chemie - International Edition</i> , 2000, 39, 1352-1375.	7.2	818
5	Programmable One-Pot Oligosaccharide Synthesis. <i>Journal of the American Chemical Society</i> , 1999, 121, 734-753.	6.6	817
6	A Potent and Broad Neutralizing Antibody Recognizes and Penetrates the HIV Glycan Shield. <i>Science</i> , 2011, 334, 1097-1103.	6.0	644
7	Natural killer T cells recognize diacylglycerol antigens from pathogenic bacteria. <i>Nature Immunology</i> , 2006, 7, 978-986.	7.0	567
8	Carbohydrate Mimetics: A New Strategy for Tackling the Problem of Carbohydrate-Mediated Biological Recognition. <i>Angewandte Chemie - International Edition</i> , 1999, 38, 2300-2324.	7.2	491
9	Synthesis of Sugar Arrays in Microtiter Plate. <i>Journal of the American Chemical Society</i> , 2002, 124, 14397-14402.	6.6	482
10	Synthesis of Complex Carbohydrates and Glycoconjugates: An Enzyme-Based and Programmable One-Pot Strategies. <i>Chemical Reviews</i> , 2000, 100, 4465-4494.	23.0	466
11	Toward Automated Synthesis of Oligosaccharides and Glycoproteins. <i>Science</i> , 2001, 291, 2344-2350.	6.0	460
12	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, 10012-10017.	3.3	458
13	Selectin-Carbohydrate Interactions: From Natural Ligands to Designed Mimics. <i>Chemical Reviews</i> , 1998, 98, 833-862.	23.0	452
14	Enzymes as Catalysts in Synthetic Organic Chemistry [New Synthetic Methods (53)]. <i>Angewandte Chemie International Edition in English</i> , 1985, 24, 617-638.	4.4	439
15	A Potent and Highly Selective Inhibitor of Human α -1,3-Fucosyltransferase via Click Chemistry. <i>Journal of the American Chemical Society</i> , 2003, 125, 9588-9589.	6.6	431
16	Recent Advances in the Chemoenzymatic Synthesis of Carbohydrates and Carbohydrate Mimetics. <i>Chemical Reviews</i> , 1996, 96, 443-474.	23.0	408
17	HIV-1 protease: mechanism and drug discovery. <i>Organic and Biomolecular Chemistry</i> , 2003, 1, 5-14.	1.5	398
18	Glycoproteomic probes for fluorescent imaging of fucosylated glycans in vivo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 12371-12376.	3.3	387

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19	Trimeric HIV-1-Env Structures Define Glycan Shields from Clades A, B, and G. <i>Cell</i> , 2016, 165, 813-826.	13.5	379
20	Sulfotransferases: Structure, Mechanism, Biological Activity, Inhibition, and Synthetic Utility. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 3526-3548.	7.2	353
21	Sialylation and fucosylation of epidermal growth factor receptor suppress its dimerization and activation in lung cancer cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 11332-11337.	3.3	347
22	Broadly Neutralizing HIV Antibodies Define a Glycan-Dependent Epitope on the Prefusion Conformation of gp41 on Cleaved Envelope Trimers. <i>Immunity</i> , 2014, 40, 657-668.	6.6	342
23	Sulfatases: Structure, Mechanism, Biological Activity, Inhibition, and Synthetic Utility. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 5736-5763.	7.2	338
24	Metal catalyzed diazo transfer for the synthesis of azides from amines. <i>Tetrahedron Letters</i> , 1996, 37, 6029-6032.	0.7	331
25	Alkynyl sugar analogs for the labeling and visualization of glycoconjugates in cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 2614-2619.	3.3	302
26	Dissection of the carbohydrate specificity of the broadly neutralizing anti-HIV-1 antibody 2G12. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 13372-13377.	3.3	291
27	The Chemistry of Amine~Azide Interconversion:~Catalytic Diazotransfer and Regioselective Azide Reduction. <i>Journal of the American Chemical Society</i> , 2002, 124, 10773-10778.	6.6	276
28	Targeting the carbohydrates on HIV-1: Interaction of oligomannose dendrons with human monoclonal antibody 2G12 and DC-SIGN. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 3690-3695.	3.3	270
29	Observation of Covalent Intermediates in an Enzyme Mechanism at Atomic Resolution. <i>Science</i> , 2001, 294, 369-374.	6.0	268
30	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, 18137-18142.	3.3	268
31	1,2,3-Triazole as a Peptide Surrogate in the Rapid Synthesis of HIV-1 Protease Inhibitors. <i>ChemBioChem</i> , 2005, 6, 1167-1169.	1.3	262
32	Enzymes in Organic Synthesis: Application to the Problems of Carbohydrate Recognition(Part 1). <i>Angewandte Chemie International Edition in English</i> , 1995, 34, 412-432.	4.4	259
33	Solid-Phase Chemical-Enzymic Synthesis of Glycopeptides and Oligosaccharides. <i>Journal of the American Chemical Society</i> , 1994, 116, 1135-1136.	6.6	256
34	Enzymes in Organic Synthesis: Application to the Problems of Carbohydrate Recognition(Part 2). <i>Angewandte Chemie International Edition in English</i> , 1995, 34, 521-546.	4.4	254
35	Enzymes in the Synthesis of Glycoconjugates. <i>Chemical Reviews</i> , 2011, 111, 4259-4307.	23.0	246
36	Quantitative Analysis of Carbohydrate~Protein Interactions Using Glycan Microarrays:~Determination of Surface and Solution Dissociation Constants. <i>Journal of the American Chemical Society</i> , 2007, 129, 11177-11184.	6.6	244

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37	Toward Automated Oligosaccharide Synthesis. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 11872-11923.	7.2	242
38	Design and Synthesis of New Aminoglycoside Antibiotics Containing Neamine as an Optimal Core Structure: A Correlation of Antibiotic Activity with in Vitro Inhibition of Translation. <i>Journal of the American Chemical Society</i> , 1999, 121, 6527-6541.	6.6	227
39	Chemical Selection for Catalysis in Combinatorial Antibody Libraries. <i>Science</i> , 1997, 275, 945-948.	6.0	224
40	Expression of 5-lipoxygenase and leukotriene A4 hydrolase in human atherosclerotic lesions correlates with symptoms of plaque instability. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 8161-8166.	3.3	222
41	A Copper(I)-Catalyzed 1,2,3-Triazole Azide-Alkyne Click Compound Is a Potent Inhibitor of a Multidrug-Resistant HIV-1 Protease Variant. <i>Journal of Medicinal Chemistry</i> , 2008, 51, 6263-6270.	2.9	219
42	Structure of the haemagglutinin-esterase-fusion glycoprotein of influenza C virus. <i>Nature</i> , 1998, 396, 92-96.	13.7	218
43	Bacterial glycolipids and analogs as antigens for CD1d-restricted NKT cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 1351-1356.	3.3	218
44	Carbohydrate microarray for profiling the antibodies interacting with Globo H tumor antigen. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 15-20.	3.3	214
45	Fucosyltransferase 8 as a functional regulator of nonsmall cell lung cancer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 630-635.	3.3	214
46	Recent Advances in Aldolase-Catalyzed Asymmetric Synthesis. <i>Advanced Synthesis and Catalysis</i> , 2007, 349, 1308-1320.	2.1	209
47	Direct Observation of Aminoglycoside-RNA Interactions by Surface Plasmon Resonance. <i>Journal of the American Chemical Society</i> , 1997, 119, 3641-3648.	6.6	208
48	The core trisaccharide of an N-linked glycoprotein intrinsically accelerates folding and enhances stability. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 3131-3136.	3.3	206
49	Advances in chemical ligation strategies for the synthesis of glycopeptides and glycoproteins. <i>Chemical Communications</i> , 2010, 46, 21-43.	2.2	204
50	O-GlcNAcylation regulates EZH2 protein stability and function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 1355-1360.	3.3	188
51	Structural basis for CD1d presentation of a sulfatide derived from myelin and its implications for autoimmunity. <i>Journal of Experimental Medicine</i> , 2005, 202, 1517-1526.	4.2	187
52	Crystal structure of the membrane-bound bifunctional transglycosylase PBP1b from <i>Escherichia coli</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 8824-8829.	3.3	180
53	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, 10611-10616.	3.3	179
54	Covalent Display of Oligosaccharide Arrays in Microtiter Plates. <i>Journal of the American Chemical Society</i> , 2004, 126, 8640-8641.	6.6	178

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55	Protein Glycosylation: A New Challenges and Opportunities. <i>Journal of Organic Chemistry</i> , 2005, 70, 4219-4225.	1.7	176
56	Development of Globo-H Cancer Vaccine. <i>Accounts of Chemical Research</i> , 2015, 48, 643-652.	7.6	176
57	Enzymatic Glycoprotein Synthesis: A Preparation of Ribonuclease Glycoforms via Enzymatic Glycopeptide Condensation and Glycosylation. <i>Journal of the American Chemical Society</i> , 1997, 119, 2114-2118.	6.6	174
58	Unprecedented Asymmetric Aldol Reactions with Three Aldehyde Substrates Catalyzed by 2-Deoxyribose-5-phosphate Aldolase. <i>Journal of the American Chemical Society</i> , 1994, 116, 8422-8423.	6.6	167
59	Anomeric Reactivity-Based One-Pot Oligosaccharide Synthesis: A Rapid Route to Oligosaccharide Libraries. <i>Journal of Organic Chemistry</i> , 2000, 65, 2410-2431.	1.7	164
60	A New Strategy for the Synthesis of Glycoproteins. <i>Science</i> , 2004, 303, 371-373.	6.0	163
61	Protein Native-State Stabilization by Placing Aromatic Side Chains in N-Glycosylated Reverse Turns. <i>Science</i> , 2011, 331, 571-575.	6.0	157
62	Electrophilic Fluorination Nucleophilic Addition Reaction Mediated by Selectfluor: Mechanistic Studies and New Applications. <i>Journal of Organic Chemistry</i> , 1999, 64, 5264-5279.	1.7	156
63	A New Method for the Synthesis of Fluoro-Carbohydrates and Glycosides Using Selectfluor. <i>Journal of the American Chemical Society</i> , 1997, 119, 11743-11746.	6.6	153
64	Intein-Mediated Synthesis of Proteins Containing Carbohydrates and Other Molecular Probes. <i>Journal of the American Chemical Society</i> , 2000, 122, 5421-5428.	6.6	152
65	Highly Alpha-Selective Sialyl Phosphate Donors for Efficient Preparation of Natural Sialosides. <i>Chemistry - A European Journal</i> , 2010, 16, 1754-1760.	1.7	152
66	Enzymatic/Chemical Synthesis and Biological Evaluation of Seven-Membered Iminocyclitols. <i>Journal of the American Chemical Society</i> , 1996, 118, 7647-7652.	6.6	151
67	Emerging themes in medicinal glycoscience. <i>Nature Biotechnology</i> , 2000, 18, 835-841.	9.4	151
68	Glycan arrays: biological and medical applications. <i>Current Opinion in Chemical Biology</i> , 2008, 12, 86-92.	2.8	150
69	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, 11661-11666.	3.3	148
70	Expression of Globo H and SSEA3 in breast cancer stem cells and the involvement of fucosyl transferases 1 and 2 in Globo H synthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 11667-11672.	3.3	147
71	Specificity of aminoglycoside antibiotics for the A-site of the decoding region of ribosomal RNA. <i>Chemistry and Biology</i> , 1998, 5, 397-406.	6.2	146
72	Directed evolution of D-2-keto-3-deoxy-6-phosphogluconate aldolase to new variants for the efficient synthesis of D- and L-sugars. <i>Chemistry and Biology</i> , 2000, 7, 873-883.	6.2	146

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73	Design of Bifunctional Antibiotics that Target Bacterial rRNA and Inhibit Resistance-Causing Enzymes. <i>Journal of the American Chemical Society</i> , 2000, 122, 5230-5231.	6.6	142
74	Synthesis of the Globo H Hexasaccharide Using the Programmable Reactivity-Based One-Pot Strategy. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 1274-1277.	7.2	140
75	Assembly of Oligosaccharide Libraries with a Designed Building Block and an Efficient Orthogonal Protection/Deprotection Strategy. <i>Journal of the American Chemical Society</i> , 1998, 120, 7137-7138.	6.6	139
76	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, 2517-2522.	3.3	139
77	A nanostructure-initiator mass spectrometry-based enzyme activity assay. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 3678-3683.	3.3	138
78	Anomeric Reactivity-Based One-Pot Synthesis of Heparin-Like Oligosaccharides. <i>Journal of the American Chemical Society</i> , 2007, 129, 12795-12800.	6.6	136
79	Rapid Diversity-Oriented Synthesis in Microtiter Plates for In Situ Screening of HIV Protease Inhibitors. <i>ChemBioChem</i> , 2003, 4, 1246-1248.	1.3	134
80	Sugar-Assisted Glycopeptide Ligation. <i>Journal of the American Chemical Society</i> , 2006, 128, 5626-5627.	6.6	132
81	Fructose-6-Phosphate Aldolase-Catalyzed One-Pot Synthesis of Iminocyclitols. <i>Journal of the American Chemical Society</i> , 2007, 129, 14811-14817.	6.6	132
82	Chemoenzymatic Solution- and Solid-Phase Synthesis of O-Glycopeptides of the Mucin Domain of MAdCAM-1. A General Route to O-LacNAc, O-Sialyl-LacNAc, and O-Sialyl-Lewis-X Peptides. <i>Journal of the American Chemical Society</i> , 1997, 119, 8766-8776.	6.6	131
83	New Methods for Proteomic Research: Preparation of Proteins with N-Terminal Cysteines for Labeling and Conjugation This research was supported by the NIH (R37 GM44154). <i>Angewandte Chemie - International Edition</i> , 2002, 41, 2171.	7.2	130
84	A Library Approach to the Discovery of Small Molecules That Recognize RNA: Use of a 1,3-Hydroxyamine Motif as Core. <i>Journal of the American Chemical Society</i> , 1998, 120, 8319-8327.	6.6	129
85	Reactivity-based one-pot total synthesis of fucose GM1 oligosaccharide: A sialylated antigenic epitope of small-cell lung cancer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 797-802.	3.3	129
86	Oligosaccharide Synthesis and Translational Innovation. <i>Journal of the American Chemical Society</i> , 2019, 141, 3735-3754.	6.6	129
87	Mechanism of Human α -1,3-Fucosyltransferase V: Glycosidic Cleavage Occurs Prior to Nucleophilic Attack. <i>Biochemistry</i> , 1997, 36, 823-831.	1.2	128
88	A Method for the Generation of Glycoprotein Mimetics. <i>Journal of the American Chemical Society</i> , 2003, 125, 1702-1703.	6.6	125
89	Defining Criteria for Oligomannose Immunogens for HIV Using Icosahedral Virus Capsid Scaffolds. <i>Chemistry and Biology</i> , 2010, 17, 357-370.	6.2	125
90	Chemoenzymatic Preparation of Novel Cyclic Imine Sugars and Rapid Biological Activity Evaluation Using Electrospray Mass Spectrometry and Kinetic Analysis. <i>Journal of the American Chemical Society</i> , 1997, 119, 8146-8151.	6.6	123

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91	The Thioglycoside and Glycosyl Phosphite of 5-Azido Sialic Acid: Excellent Donors for the α -Glycosylation of Primary Hydroxy Groups. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 2900-2903.	7.2	122
92	Reactivity-Based One-Pot Synthesis of Oligomannoses: Defining Antigens Recognized by 2G12, a Broadly Neutralizing Anti-HIV-1 Antibody. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 1000-1003.	7.2	122
93	Mechanism and Specificity of Human α -1,3-Fucosyltransferase V α . <i>Biochemistry</i> , 1996, 35, 11183-11195.	1.2	121
94	Chemo-enzymatic synthesis of fluorinated sugar nucleotide: useful mechanistic Probes for glycosyltransferases. <i>Bioorganic and Medicinal Chemistry</i> , 2000, 8, 1937-1946.	1.4	120
95	Structure-Based mutagenesis approaches toward expanding the substrate specificity of d-2-Deoxyribose-5-phosphate aldolase. <i>Bioorganic and Medicinal Chemistry</i> , 2003, 11, 43-52.	1.4	118
96	Chemoenzymatic synthesis of oligosaccharides and glycoproteins. <i>Trends in Biochemical Sciences</i> , 2004, 29, 656-663.	3.7	117
97	Sugar-Assisted Ligation in Glycoprotein Synthesis. <i>Journal of the American Chemical Society</i> , 2007, 129, 7690-7701.	6.6	117
98	Extracellular sulfatases support cartilage homeostasis by regulating BMP and FGF signaling pathways. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 10202-10207.	3.3	114
99	Carbohydrate-Based Antibiotics: A New Approach to Tackling the Problem of Resistance. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 3508.	7.2	112
100	Stable Benzotriazole Esters as Mechanism-Based Inactivators of the Severe Acute Respiratory Syndrome 3CL Protease. <i>Chemistry and Biology</i> , 2006, 13, 261-268.	6.2	112
101	A Glycoconjugate Antigen Based on the Recognition Motif of a Broadly Neutralizing Human Immunodeficiency Virus Antibody, 2G12, Is Immunogenic but Elicits Antibodies Unable To Bind to the Self Glycans of gp120. <i>Journal of Virology</i> , 2008, 82, 6359-6368.	1.5	112
102	Recombinant 2-Deoxyribose-5-phosphate Aldolase in Organic Synthesis: Use of Sequential Two-Substrate and Three-Substrate Aldol Reactions. <i>Journal of the American Chemical Society</i> , 1995, 117, 3333-3339.	6.6	111
103	Rapid Diversity-Oriented Synthesis in Microtiter Plates for In Situ Screening: Discovery of Potent and Selective α -Fucosidase Inhibitors. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 4661-4664.	7.2	107
104	Understanding the Chemistry and Biology of Glycosylation with Glycan Synthesis. <i>Annual Review of Biochemistry</i> , 2016, 85, 599-630.	5.0	107
105	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, 2482-2487.	3.3	104
106	Effect of sialylation on EGFR phosphorylation and resistance to tyrosine kinase inhibition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 6955-6960.	3.3	102
107	Small Molecules as Structural and Functional Mimics of Sialyl Lewis X Tetrasaccharide in Selectin Inhibition: A Remarkable Enhancement of Inhibition by Additional Negative Charge and/or Hydrophobic Group. <i>Journal of the American Chemical Society</i> , 1997, 119, 8152-8158.	6.6	100
108	Mimics of Complex Carbohydrates Recognized by Receptors. <i>Accounts of Chemical Research</i> , 1999, 32, 376-385.	7.6	100

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109	Glycoprotein B7-H3 overexpression and aberrant glycosylation in oral cancer and immune response. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 13057-13062.	3.3	100
110	Novel Five-Membered Iminocyclitol Derivatives as Selective and Potent Glycosidase Inhibitors: New Structures for Antivirals and Osteoarthritis. ChemBioChem, 2006, 7, 165-173.	1.3	99
111	Inhibition of the severe acute respiratory syndrome 3CL protease by peptidomimetic $\hat{1}\pm, \hat{1}^2$ -unsaturated esters. Bioorganic and Medicinal Chemistry, 2005, 13, 5240-5252.	1.4	97
112	Modular synthesis of N-glycans and arrays for the hetero-ligand binding analysis of HIV antibodies. Nature Chemistry, 2016, 8, 338-346.	6.6	97
113	Reactivity-Based One-Pot Synthesis of a Lewis Y Carbohydrate Hapten: A Colon Rectal Cancer Antigen Determinant. Angewandte Chemie - International Edition, 2002, 41, 4087-4090.	7.2	96
114	High-throughput identification of compounds targeting influenza RNA-dependent RNA polymerase activity. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 19151-19156.	3.3	96
115	$\hat{1}\pm$ -Glycosylation by $\langle \text{scp} \rangle \text{d} \langle / \text{scp} \rangle$ -Glucosamine-Derived Donors: Synthesis of Heparosan and Heparin Analogues That Interact with Mycobacterial Heparin-Binding Hemagglutinin. Journal of the American Chemical Society, 2012, 134, 8988-8995.	6.6	95
116	Regeneration of PAPS for the Enzymatic Synthesis of Sulfated Oligosaccharides. Journal of Organic Chemistry, 2000, 65, 5565-5574.	1.7	94
117	Solution- and Solid-Phase Synthesis of Inhibitors of H. pylori Attachment and E-Selectin-Mediated Leukocyte Adhesion. Journal of the American Chemical Society, 1994, 116, 11315-11322.	6.6	92
118	Effective Sugar Nucleotide Regeneration for the Large-Scale Enzymatic Synthesis of Globo H and SSEA4. Journal of the American Chemical Society, 2013, 135, 14831-14839.	6.6	92
119	Conserved and Heterogeneous Lipid Antigen Specificities of CD1d-Restricted NKT Cell Receptors. Journal of Immunology, 2006, 176, 3625-3634.	0.4	91
120	Solid-Phase Synthesis of Peptide and Glycopeptide Thioesters through Side-Chain-Anchoring Strategies. Chemistry - A European Journal, 2008, 14, 3620-3629.	1.7	91
121	A Programmable One-Pot Oligosaccharide Synthesis for Diversifying the Sugar Domains of Natural Products: A Case Study of Vancomycin. Angewandte Chemie - International Edition, 2003, 42, 4657-4660.	7.2	90
122	Cysteine-Free Peptide and Glycopeptide Ligation by Direct Aminolysis. Angewandte Chemie - International Edition, 2008, 47, 4411-4415.	7.2	90
123	An Azido-BODIPY Probe for Glycosylation: Initiation of Strong Fluorescence upon Triazole Formation. Journal of the American Chemical Society, 2014, 136, 9953-9961.	6.6	90
124	A new multi-enzyme system for a one-pot synthesis of sialyl oligosaccharides: Combined use of $\hat{1}^2$ -galactosidase and $\hat{1}\pm(26)$ -sialyltransferase coupled with regeneration in situ of CMP-sialic acid. Tetrahedron Letters, 1993, 34, 3091-3094.	0.7	89
125	Saccharide Display on Microtiter Plates. Chemistry and Biology, 2002, 9, 713-720.	6.2	88
126	High-throughput identification of fucosyltransferase inhibitors using carbohydrate microarrays. Bioorganic and Medicinal Chemistry Letters, 2004, 14, 3185-3188.	1.0	88

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127	Sugar-Assisted Ligation of N-Linked Glycopeptides with Broad Sequence Tolerance at the Ligation Junction. <i>Journal of the American Chemical Society</i> , 2006, 128, 15026-15033.	6.6	88
128	Differential Receptor Binding Affinities of Influenza Hemagglutinins on Glycan Arrays. <i>Journal of the American Chemical Society</i> , 2010, 132, 14849-14856.	6.6	87
129	Crystal structure of <i>Staphylococcus aureus</i> transglycosylase in complex with a lipid II analog and elucidation of peptidoglycan synthesis mechanism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 6496-6501.	3.3	87
130	Hydroxyamines as a New Motif for the Molecular Recognition of Phosphodiester: Implications for Aminoglycoside-RNA Interactions. <i>Angewandte Chemie International Edition in English</i> , 1997, 36, 95-98.	4.4	86
131	Efficient Convergent Synthesis of Bi-, Tri-, and Tetra-antennary Complex Type <i>N</i> -Glycans and Their HIV-1 Antigenicity. <i>Journal of the American Chemical Society</i> , 2013, 135, 15382-15391.	6.6	86
132	Directed evolution of N-acetylneuraminic acid aldolase to catalyze enantiomeric aldol reactions. <i>Bioorganic and Medicinal Chemistry</i> , 2003, 11, 2091-2098.	1.4	85
133	Structural and Energetic Basis of Carbohydrate-Aromatic Packing Interactions in Proteins. <i>Journal of the American Chemical Society</i> , 2013, 135, 9877-9884.	6.6	85
134	[7] Regeneration of sugar nucleotide for enzymatic oligosaccharide synthesis. <i>Methods in Enzymology</i> , 1994, 247, 107-127.	0.4	84
135	Sequential aldol condensation catalyzed by DERA mutant Ser238Asp and a formal total synthesis of atorvastatin. <i>Tetrahedron Letters</i> , 2004, 45, 2439-2441.	0.7	84
136	N-(Phenylthio)- μ -caprolactam: A New Promoter for the Activation of Thioglycosides. <i>Organic Letters</i> , 2004, 6, 839-841.	2.4	84
137	Extended Sugar-Assisted Glycopeptide Ligations: Development, Scope, and Applications. <i>Journal of the American Chemical Society</i> , 2007, 129, 13527-13536.	6.6	84
138	Chemoenzymatic approaches to glycoprotein synthesis. <i>Chemical Society Reviews</i> , 2007, 36, 1227.	18.7	83
139	Iron Oxide/Gold Core/Shell Nanoparticles for Ultrasensitive Detection of Carbohydrate-Protein Interactions. <i>Analytical Chemistry</i> , 2009, 81, 7750-7756.	3.2	83
140	Advances in glycoprotein synthesis. <i>Chemical Communications</i> , 2006, , 21-33.	2.2	82
141	Glycoengineering of antibody (Herceptin) through yeast expression and in vitro enzymatic glycosylation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 720-725.	3.3	80
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