Chi-Huey Wong

List of Publications by Year
in descending order

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417 papers	38,517 citations	1701 104 h-index	3822 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. Nature, 2011, 477, 466-470.	13.7	1,397
2	Printed covalent glycan array for ligand profiling of diverse glycan binding proteins. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 17033-17038.	3.3	1,039
3	Enzymes for chemical synthesis. Nature, 2001, 409, 232-240.	13.7	841
4	The Catalytic Asymmetric Aldol Reaction. Angewandte Chemie - International Edition, 2000, 39, 1352-1375.	7.2	818
5	Programmable One-Pot Oligosaccharide Synthesis. Journal of the American Chemical Society, 1999, 121, 734-753.	6.6	817
6	A Potent and Broad Neutralizing Antibody Recognizes and Penetrates the HIV Glycan Shield. Science, 2011, 334, 1097-1103.	6.0	644
7	Natural killer T cells recognize diacylglycerol antigens from pathogenic bacteria. Nature Immunology, 2006, 7, 978-986.	7.0	567
8	Carbohydrate Mimetics: A New Strategy for Tackling the Problem of Carbohydrate-Mediated Biological Recognition. Angewandte Chemie - International Edition, 1999, 38, 2300-2324.	7.2	491
9	Synthesis of Sugar Arrays in Microtiter Plate. Journal of the American Chemical Society, 2002, 124, 14397-14402.	6.6	482
10	Synthesis of Complex Carbohydrates and Glycoconjugates:Â Enzyme-Based and Programmable One-Pot Strategies. Chemical Reviews, 2000, 100, 4465-4494.	23.0	466
11	Toward Automated Synthesis of Oligosaccharides and Glycoproteins. Science, 2001, 291, 2344-2350.	6.0	460
12	Small molecules targeting severe acute respiratory syndrome human coronavirus. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 10012-10017.	3.3	458
13	Selectinâ"Carbohydrate Interactions:â€‰ From Natural Ligands to Designed Mimics. Chemical Reviews, 1998, 98, 833-862.	23.0	452
14	Enzymes as Catalysts in Synthetic Organic Chemistry [New Synthetic Methods (53)]. Angewandte Chemie International Edition in English, 1985, 24, 617-638.	4.4	439
15	A Potent and Highly Selective Inhibitor of Human Î±-1,3-Fucosyltransferase via Click Chemistry. Journal of the American Chemical Society, 2003, 125, 9588-9589.	6.6	431
16	Recent Advances in the Chemoenzymatic Synthesis of Carbohydrates and Carbohydrate Mimetics. Chemical Reviews, 1996, 96, 443-474.	23.0	408
17	HIV-1 protease: mechanism and drug discovery. Organic and Biomolecular Chemistry, 2003, 1, 5-14.	1.5	398
18	Glycoproteomic probes for fluorescent imaging of fucosylated glycans in vivo. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 12371-12376.	3.3	387

#	Article	IF	Citations
19	Trimeric HIV-1-Env Structures Define Glycan Shields from Clades A, B, and G. Cell, 2016, 165, 813-826.	13.5	379
20	Sulfotransferases: Structure, Mechanism, Biological Activity, Inhibition, and Synthetic Utility. Angewandte Chemie - International Edition, 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. Proceedings of the National Academy of Sciences of the United States of America, 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. Immunity, 2014, 40, 657-668.	6.6	342
23	Sulfatases: Structure, Mechanism, Biological Activity, Inhibition, and Synthetic Utility. Angewandte Chemie - International Edition, 2004, 43, 5736-5763.	7.2	338
24	Metal catalyzed diazo transfer for the synthesis of azides from amines. Tetrahedron Letters, 1996, 37, 6029-6032.	0.7	331
25	Alkynyl sugar analogs for the labeling and visualization of glycoconjugates in cells. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 2614-2619.	3.3	302
26	Dissection of the carbohydrate specificity of the broadly neutralizing anti-HIV-1 antibody 2G12. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 13372-13377.	3.3	291
27	The Chemistry of Amineâ"Azide Interconversion:â€‰ Catalytic Diazotransfer and Regioselective Azide Reduction. Journal of the American Chemical Society, 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. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 3690-3695.	3.3	270
29	Observation of Covalent Intermediates in an Enzyme Mechanism at Atomic Resolution. Science, 2001, 294, 369-374.	6.0	268
30	Glycans on influenza hemagglutinin affect receptor binding and immune response. Proceedings of the National Academy of Sciences of the United States of America, 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. ChemBioChem, 2005, 6, 1167-1169.	1.3	262
32	Enzymes in Organic Synthesis: Application to the Problems of Carbohydrate Recognition(Part 1). Angewandte Chemie International Edition in English, 1995, 34, 412-432.	4.4	259
33	Solid-Phase Chemical-Enzymic Synthesis of Glycopeptides and Oligosaccharides. Journal of the American Chemical Society, 1994, 116, 1135-1136.	6.6	256
34	Enzymes in Organic Synthesis: Application to the Problems of Carbohydrate Recognition(Part 2). Angewandte Chemie International Edition in English, 1995, 34, 521-546.	4.4	254
35	Enzymes in the Synthesis of Glycoconjugates. Chemical Reviews, 2011, 111, 4259-4307.	23.0	246
36	Quantitative Analysis of Carbohydrateâ"Protein Interactions Using Glycan Microarrays:Â Determination of Surface and Solution Dissociation Constants. Journal of the American Chemical Society, 2007, 129, 11177-11184.	6.6	244

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37	Toward Automated Oligosaccharide Synthesis. Angewandte Chemie - International Edition, 2011, 50, 11872-11923.	7.2	242
38	Design and Synthesis of New Aminoglycoside Antibiotics Containing Neamine as an Optimal Core Structure:Â Correlation of Antibiotic Activity with in Vitro Inhibition of Translation. Journal of the American Chemical Society, 1999, 121, 6527-6541.	6.6	227
39	Chemical Selection for Catalysis in Combinatorial Antibody Libraries. Science, 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. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 8161-8166.	3.3	222
41	A Copper(I)-Catalyzed 1,2,3-Triazole Azideâ^'Alkyne Click Compound Is a Potent Inhibitor of a Multidrug-Resistant HIV-1 Protease Variant. Journal of Medicinal Chemistry, 2008, 51, 6263-6270.	2.9	219
42	Structure of the haemagglutinin-esterase-fusion glycoprotein of influenza C virus. Nature, 1998, 396, 92-96.	13.7	218
43	Bacterial glycolipids and analogs as antigens for CD1d-restricted NKT cells. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 1351-1356.	3.3	218
44	Carbohydrate microarray for profiling the antibodies interacting with Globo H tumor antigen. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 15-20.	3.3	214
45	Fucosyltransferase 8 as a functional regulator of nonsmall cell lung cancer. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 630-635.	3.3	214
46	Recent Advances in Aldolase-Catalyzed Asymmetric Synthesis. Advanced Synthesis and Catalysis, 2007, 349, 1308-1320.	2.1	209
47	Direct Observation of Aminoglycosideâ^'RNA Interactions by Surface Plasmon Resonance. Journal of the American Chemical Society, 1997, 119, 3641-3648.	6.6	208
48	The core trisaccharide of an N-linked glycoprotein intrinsically accelerates folding and enhances stability. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 3131-3136.	3.3	206
49	Advances in chemical ligation strategies for the synthesis of glycopeptides and glycoproteins. Chemical Communications, 2010, 46, 21-43.	2.2	204
50	O-GlcNAcylation regulates EZH2 protein stability and function. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 1355-1360.	3.3	188
51	Structural basis for CD1d presentation of a sulfatide derived from myelin and its implications for autoimmunity. Journal of Experimental Medicine, 2005, 202, 1517-1526.	4.2	187
52	Crystal structure of the membrane-bound bifunctional transglycosylase PBP1b from Escherichia coli. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 8824-8829.	3.3	180
53	A common glycan structure on immunoglobulin G for enhancement of effector functions. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 10611-10616.	3.3	179
54	Covalent Display of Oligosaccharide Arrays in Microtiter Plates. Journal of the American Chemical Society, 2004, 126, 8640-8641.	6.6	178

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55	Protein Glycosylation:Â New Challenges and Opportunities. Journal of Organic Chemistry, 2005, 70, 4219-4225.	1.7	176
56	Development of Globo-H Cancer Vaccine. Accounts of Chemical Research, 2015, 48, 643-652.	7.6	176
57	Enzymatic Glycoprotein Synthesis:Â Preparation of Ribonuclease Glycoforms via Enzymatic Glycopeptide Condensation and Glycosylation. Journal of the American Chemical Society, 1997, 119, 2114-2118.	6.6	174
58	Unprecedented Asymmetric Aldol Reactions with Three Aldehyde Substrates Catalyzed by 2-Deoxyribose-5-phosphate Aldolase. Journal of the American Chemical Society, 1994, 116, 8422-8423.	6.6	167
59	Anomeric Reactivity-Based One-Pot Oligosaccharide Synthesis:Â A Rapid Route to Oligosaccharide Libraries. Journal of Organic Chemistry, 2000, 65, 2410-2431.	1.7	164
60	A New Strategy for the Synthesis of Glycoproteins. Science, 2004, 303, 371-373.	6.0	163
61	Protein Native-State Stabilization by Placing Aromatic Side Chains in N-Glycosylated Reverse Turns. Science, 2011, 331, 571-575.	6.0	157
62	Electrophilic Fluorinationâ^'Nucleophilic Addition Reaction Mediated by Selectfluor: Mechanistic Studies and New Applications. Journal of Organic Chemistry, 1999, 64, 5264-5279.	1.7	156
63	A New Method for the Synthesis of Fluoro-Carbohydrates and Glycosides Using Selectfluor. Journal of the American Chemical Society, 1997, 119, 11743-11746.	6.6	153
64	Intein-Mediated Synthesis of Proteins Containing Carbohydrates and Other Molecular Probes. Journal of the American Chemical Society, 2000, 122, 5421-5428.	6.6	152
65	Highly Alphaâ€Selective Sialyl Phosphate Donors for Efficient Preparation of Natural Sialosides. Chemistry - A European Journal, 2010, 16, 1754-1760.	1.7	152
66	Enzymatic/Chemical Synthesis and Biological Evaluation of Seven-Membered Iminocyclitols. Journal of the American Chemical Society, 1996, 118, 7647-7652.	6.6	151
67	Emerging themes in medicinal glycoscience. Nature Biotechnology, 2000, 18, 835-841.	9.4	151
68	Glycan arrays: biological and medical applications. Current Opinion in Chemical Biology, 2008, 12, 86-92.	2.8	150
69	Glycan microarray of Globo H and related structures for quantitative analysis of breast cancer. Proceedings of the National Academy of Sciences of the United States of America, 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. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 11667-11672.	3.3	147
71	Specificity of aminoglycoside antibiotics for the A-site of the decoding region of ribosomal RNA. Chemistry and Biology, 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. Chemistry and Biology, 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. Journal of the American Chemical Society, 2000, 122, 5230-5231.	6.6	142
74	Synthesis of the Globo H Hexasaccharide Using the Programmable Reactivity-Based One-Pot Strategy. Angewandte Chemie - International Edition, 2001, 40, 1274-1277.	7.2	140
75	Assembly of Oligosaccharide Libraries with a Designed Building Block and an Efficient Orthogonal Protectionâ^'Deprotection Strategy. Journal of the American Chemical Society, 1998, 120, 7137-7138.	6.6	139
76	Carbohydrate-based vaccines with a glycolipid adjuvant for breast cancer. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 2517-2522.	3.3	139
77	A nanostructure-initiator mass spectrometry-based enzyme activity assay. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 3678-3683.	3.3	138
78	Anomeric Reactivity-Based One-Pot Synthesis of Heparin-Like Oligosaccharides. Journal of the American Chemical Society, 2007, 129, 12795-12800.	6.6	136
79	Rapid Diversity-Oriented Synthesis in Microtiter Plates for In Situ Screening of HIV Protease Inhibitors. ChemBioChem, 2003, 4, 1246-1248.	1.3	134
80	Sugar-Assisted Glycopeptide Ligation. Journal of the American Chemical Society, 2006, 128, 5626-5627.	6.6	132
81	<scp>d</scp>-Fructose-6-Phosphate Aldolase-Catalyzed One-Pot Synthesis of Iminocyclitols. Journal of the American Chemical Society, 2007, 129, 14811-14817.	6.6	132
82	Chemoenzymatic Solution- and Solid-Phase Synthesis ofO-Glycopeptides of the Mucin Domain of MAdCAM-1. A General Route toO-LacNAc,O-Sialyl-LacNAc, andO-Sialyl-Lewis-X Peptides. Journal of the American Chemical Society, 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).. Angewandte Chemie - International Edition, 2002, 41, 2171.	7.2	130
84	A Library Approach to the Discovery of Small Molecules That Recognize RNA:Â Use of a 1,3-Hydroxyamine Motif as Core. Journal of the American Chemical Society, 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. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 797-802.	3.3	129
86	Oligosaccharide Synthesis and Translational Innovation. Journal of the American Chemical Society, 2019, 141, 3735-3754.	6.6	129
87	Mechanism of Human Î±-1,3-Fucosyltransferase V:â€‰ Glycosidic Cleavage Occurs Prior to Nucleophilic Attack. Biochemistry, 1997, 36, 823-831.	1.2	128
88	A Method for the Generation of Glycoprotein Mimetics. Journal of the American Chemical Society, 2003, 125, 1702-1703.	6.6	125
89	Defining Criteria for Oligomannose Immunogens for HIV Using Icosahedral Virus Capsid Scaffolds. Chemistry and Biology, 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. Journal of the American Chemical Society, 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 theÎ±-Glycosylation of Primary Hydroxy Groups. Angewandte Chemie - International Edition, 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. Angewandte Chemie - International Edition, 2004, 43, 1000-1003.	7.2	122
93	Mechanism and Specificity of Human Î±-1,3-Fucosyltransferase Vâ€. Biochemistry, 1996, 35, 11183-11195.	1.2	121
94	Chemo-enzymatic synthesis of fluorinated sugar nucleotide: useful mechanistic Probes for glycosyltransferases. Bioorganic and Medicinal Chemistry, 2000, 8, 1937-1946.	1.4	120
95	Structure-Based mutagenesis approaches toward expanding the substrate specificity of d-2-Deoxyribose-5-phosphate aldolase. Bioorganic and Medicinal Chemistry, 2003, 11, 43-52.	1.4	118
96	Chemoenzymatic synthesis of oligosaccharides and glycoproteins. Trends in Biochemical Sciences, 2004, 29, 656-663.	3.7	117
97	Sugar-Assisted Ligation in Glycoprotein Synthesis. Journal of the American Chemical Society, 2007, 129, 7690-7701.	6.6	117
98	Extracellular sulfatases support cartilage homeostasis by regulating BMP and FGF signaling pathways. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 10202-10207.	3.3	114
99	Carbohydrate-Based Antibiotics: A New Approach to Tackling the Problem of Resistance. Angewandte Chemie - International Edition, 2001, 40, 3508.	7.2	112
100	Stable Benzotriazole Esters as Mechanism-Based Inactivators of the Severe Acute Respiratory Syndrome 3CL Protease. Chemistry and Biology, 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. Journal of Virology, 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. Journal of the American Chemical Society, 1995, 117, 3333-3339.	6.6	111
103	Rapid Diversity-Oriented Synthesis in Microtiter Plates for In Situ Screening: Discovery of Potent and SelectiveÎ±-Fucosidase Inhibitors. Angewandte Chemie - International Edition, 2003, 42, 4661-4664.	7.2	107
104	Understanding the Chemistry and Biology of Glycosylation with Glycan Synthesis. Annual Review of Biochemistry, 2016, 85, 599-630.	5.0	107
105	Stage-specific embryonic antigen-4 as a potential therapeutic target in glioblastoma multiforme and other cancers. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 2482-2487.	3.3	104
106	Effect of sialylation on EGFR phosphorylation and resistance to tyrosine kinase inhibition. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 6955-6960.	3.3	102
107	Small Molecules as Structural and Functional Mimics of Sialyl Lewis X Tetrasaccharide in Selectin Inhibition:Â A Remarkable Enhancement of Inhibition by Additional Negative Charge and/or Hydrophobic Group. Journal of the American Chemical Society, 1997, 119, 8152-8158.	6.6	100
108	Mimics of Complex Carbohydrates Recognized by Receptors. Accounts of Chemical Research, 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 Î±,Î²-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 Colonâ€“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	Î±-Glycosylation by <scp>d</scp>-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	Solidâ€Phase Synthesis of Peptide and Glycopeptide Thioesters through Sideâ€Chainâ€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	Cysteineâ€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 Î²-galactosidase and Î±(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. Journal of the American Chemical Society, 2006, 128, 15026-15033.	6.6	88
128	Differential Receptor Binding Affinities of Influenza Hemagglutinins on Glycan Arrays. Journal of the American Chemical Society, 2010, 132, 14849-14856.	6.6	87
129	Crystal structure of Staphylococcus aureus transglycosylase in complex with a lipid II analog and elucidation of peptidoglycan synthesis mechanism. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 6496-6501.	3.3	87
130	Hydroxyamines as a New Motif for the Molecular Recognition of Phosphodiesters: Implications for Aminoglycosideâ€“RNA Interactions. Angewandte Chemie International Edition in English, 1997, 36, 95-98.	4.4	86
131	Efficient Convergent Synthesis of Bi-, Tri-, and Tetra-antennary Complex Type N-Glycans and Their HIV-1 Antigenicity. Journal of the American Chemical Society, 2013, 135, 15382-15391.	6.6	86
132	Directed evolution of N-acetylneuraminic acid aldolase to catalyze enantiomeric aldol reactions. Bioorganic and Medicinal Chemistry, 2003, 11, 2091-2098.	1.4	85
133	Structural and Energetic Basis of Carbohydrateâ€“Aromatic Packing Interactions in Proteins. Journal of the American Chemical Society, 2013, 135, 9877-9884.	6.6	85
134	[7] Regeneration of sugar nucleotide for enzymatic oligosaccharide synthesis. Methods in Enzymology, 1994, 247, 107-127.	0.4	84
135	Sequential aldol condensation catalyzed by DERA mutant Ser238Asp and a formal total synthesis of atorvastatin. Tetrahedron Letters, 2004, 45, 2439-2441.	0.7	84
136	N-(Phenylthio)-Îµ-caprolactam:â€‰ A New Promoter for the Activation of Thioglycosides. Organic Letters, 2004, 6, 839-841.	2.4	84
137	Extended Sugar-Assisted Glycopeptide Ligations:â€‰ Development, Scope, and Applications. Journal of the American Chemical Society, 2007, 129, 13527-13536.	6.6	84
138	Chemoenzymatic approaches to glycoprotein synthesis. Chemical Society Reviews, 2007, 36, 1227.	18.7	83
139	Iron Oxide/Gold Core/Shell Nanoparticles for Ultrasensitive Detection of Carbohydrateâ^'Protein Interactions. Analytical Chemistry, 2009, 81, 7750-7756.	3.2	83
140	Advances in glycoprotein synthesis. Chemical Communications, 2006, , 21-33.	2.2	82
141	Glycoengineering of antibody (Herceptin) through yeast expression and in vitro enzymatic glycosylation. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 720-725.	3.3	80
142	One-Pot Synthesis ofl-Fructose Using Coupled Multienzyme Systems Based on Rhamnulose-1-phosphate Aldolase. Journal of Organic Chemistry, 2003, 68, 6828-6831.	1.7	78
143	A New Reactivity-Based One-Pot Synthesis of N-Acetyllactosamine Oligomers. Journal of Organic Chemistry, 2003, 68, 2135-2142.	1.7	78
144	Synthesis and High-Throughput Screening ofN-Acetyl-Î²-hexosaminidase Inhibitor Libraries Targeting Osteoarthritis. Journal of Organic Chemistry, 2004, 69, 6273-6283.	1.7	78

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145	Influenza A surface glycosylation and vaccine design. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 280-285.	3.3	76
146	Secondâ€Generation Sugarâ€Assisted Ligation: A Method for the Synthesis of Cysteineâ€Containing Glycopeptides. Angewandte Chemie - International Edition, 2007, 46, 5975-5979.	7.2	75
147	Glycosylation of Threonine of the Repeating Unit of RNA Polymerase II with Î²-LinkedN-Acetylglucosame Leads to a Turnlike Structure. Journal of the American Chemical Society, 1998, 120, 11567-11575.	6.6	73
148	Chemistry and glycobiology. Chemical Communications, 2011, 47, 6201.	2.2	73
149	E339â€¦R416 salt bridge of nucleoprotein as a feasible target for influenza virus inhibitors. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 16515-16520.	3.3	73
150	Acyl and Silyl Group Effects in Reactivity-Based One-Pot Glycosylation: Synthesis of Embryonic Stem Cell Surface Carbohydrates Lc₄ and IV²Fuc-Lc₄. Journal of the American Chemical Society, 2012, 134, 4549-4552.	6.6	70
151	A Quick Diversity-Oriented Amide-Forming Reaction to Optimize P-Subsite Residues of HIV Protease Inhibitors. Chemistry and Biology, 2002, 9, 891-896.	6.2	69
152	Novel Efficient Routes to Heparin Monosaccharides and Disaccharides Achieved via Regio- and Stereoselective Glycosidation. Organic Letters, 2004, 6, 723-726.	2.4	68
153	O -GlcNAcylation regulates the stability and enzymatic activity of the histone methyltransferase EZH2. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 7302-7307.	3.3	68
154	Vaccination with SARS-CoV-2 spike protein lacking glycan shields elicits enhanced protective responses in animal models. Science Translational Medicine, 2022, 14, eabm0899.	5.8	68
155	Design of Small Molecules That Recognize RNA: Development of Aminoglycosides as Potential Antitumor Agents That Target Oncogenic RNA Sequences. Angewandte Chemie - International Edition, 2000, 39, 1080-1084.	7.2	67
156	Hexosaminidase inhibitors as new drug candidates for the therapy of osteoarthritis. Chemistry and Biology, 2001, 8, 701-711.	6.2	67
157	An Efficient Modular One-Pot Synthesis of Heparin-Based Anticoagulant Idraparinux. Journal of the American Chemical Society, 2019, 141, 10309-10314.	6.6	67
158	Sequential One-Pot Aldol Reactions Catalyzed by 2-Deoxyribose-5-phosphate Aldolase and Fructose-1,6-diphosphate Aldolase. Journal of the American Chemical Society, 1995, 117, 2947-2948.	6.6	66
159	Solid-Phase Synthesis of Oligosaccharides and On-Resin Quantitative Monitoring Using Gated Decoupling13C NMRâ€. Journal of the American Chemical Society, 2002, 124, 3591-3599.	6.6	66
160	Programmable reactivity-based one-pot oligosaccharide synthesis. Nature Protocols, 2006, 1, 3143-3152.	5.5	66
161	Borate as a Phosphate Ester Mimic in Aldolase-Catalyzed Reactions: Practical Synthesis ofL-Fructose andL-Iminocyclitols. Advanced Synthesis and Catalysis, 2006, 348, 2555-2559.	2.1	66
162	Domain requirement of moenomycin binding to bifunctional transglycosylases and development of high-throughput discovery of antibiotics. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 431-436.	3.3	66

#	Article	IF	Citations
163	A Neutralizing Antibody Recognizing Primarily N-Linked Glycan Targets the Silent Face of the HIV Envelope. Immunity, 2018, 48, 500-513.e6.	6.6	66
164	Hierarchical and programmable one-pot synthesis of oligosaccharides. Nature Communications, 2018, 9, 5202.	5.8	66
165	Syntheses of C-3-Modified Sialylglycosides as Selective Inhibitors of Influenza Hemagglutinin and Neuraminidase. European Journal of Organic Chemistry, 2000, 2000, 2643-2653.	1.2	65
166	Cell-Wall Engineering of Living Bacteria. Journal of the American Chemical Society, 2002, 124, 9018-9019.	6.6	65
167	Three-Step Synthesis of Sialic Acids and Derivatives. Angewandte Chemie - International Edition, 2006, 45, 7417-7421.	7.2	65
168	A Versatile Synthetic Strategy for the Preparation and Discovery of New Iminocyclitols as Inhibitors of Glycosidases. Journal of Organic Chemistry, 1999, 64, 5280-5291.	1.7	64
169	An O-glycoside of sialic acid derivative that inhibits both hemagglutinin and sialidase activities of influenza viruses. Glycobiology, 2002, 12, 183-190.	1.3	64
170	Dual Effect of Synthetic Aminoglycosides: Antibacterial Activity againstBacillus anthracis and Inhibition of Anthrax Lethal Factor. Angewandte Chemie - International Edition, 2005, 44, 447-452.	7.2	63
171	Effects of Neighboring Glycans on Antibodyâ€“Carbohydrate Interaction. Angewandte Chemie - International Edition, 2011, 50, 1608-1612.	7.2	63
172	Efficient and Stereoselective Synthesis of Î±(2â†'9) Oligosialic Acids: From Monomers to Dodecamers. Angewandte Chemie - International Edition, 2011, 50, 9391-9395.	7.2	63
173	Chemoenzymatic Synthesis of a PSGL-1 N-Terminal Glycopeptide Containing Tyrosine Sulfate and Î±-O-Linked Sialyl Lewis X. Journal of the American Chemical Society, 2000, 122, 4241-4242.	6.6	62
174	Directed evolution of D-sialic acid aldolase to L-3-deoxy-manno-2-octulosonic acid (L-KDO) aldolase. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 9122-9126.	3.3	62
175	Reactivity-Based One-Pot Synthesis of the Tumor-Associated Antigen N3 Minor Octasaccharide for the Development of a Photocleavable DIOS-MS Sugar Array. Angewandte Chemie - International Edition, 2006, 45, 2753-2757.	7.2	61
176	Cell-permeable probe for identification and imaging of sialidases. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 2466-2471.	3.3	61
177	A General Strategy toward S-Linked Glycopeptides. Angewandte Chemie - International Edition, 2005, 44, 4596-4599.	7.2	60
178	Microtiter plate based chemistry and in situ screening: a useful approach for rapid inhibitor discovery. Organic and Biomolecular Chemistry, 2006, 4, 1446.	1.5	60
179	Concise Synthesis of Iminocyclitols via Petasis-Type Aminocyclization. Journal of the American Chemical Society, 2009, 131, 8352-8353.	6.6	60
180	Antibacterial cyclic d,l-Î±-glycopeptides. Chemical Communications, 2009, , 3693.	2.2	60

#	Article	IF	Citations
181	High-throughput identification of antibacterials against methicillin-resistant Staphylococcus aureus (MRSA) and the transglycosylase. Bioorganic and Medicinal Chemistry, 2010, 18, 8512-8529.	1.4	60
182	Enzymic Synthesis and Regeneration of 3'-Phosphoadenosine 5'-Phosphosulfate (PAPS) for Regioselective Sulfation of Oligosaccharides. Journal of the American Chemical Society, 1995, 117, 8031-8032.	6.6	59
183	Homogenous Enzymatic Synthesis Using a Thermo-Responsive Water-Soluble Polymer Support. Advanced Synthesis and Catalysis, 2001, 343, 675-681.	2.1	59
184	Sugar-Assisted Glycopeptide Ligation with Complex Oligosaccharides: Scope and Limitations. Journal of the American Chemical Society, 2008, 130, 11945-11952.	6.6	59
185	New development of glycan arrays. Organic and Biomolecular Chemistry, 2009, 7, 2247.	1.5	59
186	Enzymic Synthesis of Hyaluronic Acid with Regeneration of Sugar Nucleotides. Journal of the American Chemical Society, 1995, 117, 5869-5870.	6.6	58
187	Samarium Diiodide Mediated Coupling of Glycosyl Phosphates with Carbon Radical or Anion Acceptorsâ€"Synthesis of C-Glycosides. Angewandte Chemie International Edition in English, 1996, 35, 2671-2674.	4.4	58
188	Exploitation of Subtilisin BPNâ€˜ as Catalyst for the Synthesis of Peptides Containing Noncoded Amino Acids, Peptide Mimetics and Peptide Conjugates. Journal of the American Chemical Society, 1997, 119, 3942-3947.	6.6	58
189	Aldolase-Catalyzed Asymmetric Synthesis of Novel Pyranose Synthons as a New Entry to Heterocycles and Epothilones. Angewandte Chemie - International Edition, 2002, 41, 1404-1407.	7.2	58
190	Synthesis and Evaluation of Transition-State Analogue Inhibitors of ÃŽÂ±-1,3-Fucosyltransferase This work was supported by the NIH and the Skaggs Institute. M.L.M. acknowledges fellowships from UNCFÃ¢Â‹Â…Merck Science Initiative and Skaggs Predoctoral Fellows Program.. Angewandte Chemie - International Edition, 2002, 41, 3041.	7.2	58
191	Glycan Array on Aluminum Oxide-Coated Glass Slides through Phosphonate Chemistry. Journal of the American Chemical Society, 2010, 132, 13371-13380.	6.6	58
192	Nâ€glycosylation of enhanced aromatic sequons to increase glycoprotein stability. Biopolymers, 2012, 98, 195-211.	1.2	58
193	Vaccination of monoglycosylated hemagglutinin induces cross-strain protection against influenza virus infections. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 2476-2481.	3.3	58
194	Stage-specific embryonic antigen-3 (SSEA-3) and Î²3GalT5 are cancer specific and significant markers for breast cancer stem cells. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 960-965.	3.3	55
195	Discovery of Picomolar Slow Tight-Binding Inhibitors of Îą-Fucosidase. Chemistry and Biology, 2004, 11, 1301-1306.	6.2	54
196	Programmable one-pot synthesis of heparin pentasaccharides enabling access to regiodefined sulfate derivatives. Chemical Science, 2018, 9, 6685-6691.	3.7	53
197	Convergent Glycopeptide Synthesis by Traceless Staudinger Ligation and Enzymatic Coupling. ChemBioChem, 2006, 7, 429-432.	1.3	52
198	Synthesis of Neisseria meningitidis Serogroup W135 Capsular Oligosaccharides for Immunogenicity Comparison and Vaccine Development. Angewandte Chemie - International Edition, 2013, 52, 9157-9161.	7.2	51

#	Article	IF	Citations
199	Immunogenicity Study of Globo H Analogues with Modification at the Reducing or Nonreducing End of the Tumor Antigen. Journal of the American Chemical Society, 2014, 136, 16844-16853.	6.6	50
200	Chemical constituents of Plectranthus amboinicus and the synthetic analogs possessing anti-inflammatory activity. Bioorganic and Medicinal Chemistry, 2014, 22, 1766-1772.	1.4	50
201	Chemoenzymatic synthesis of PSGL-1 glycopeptides: sulfation on tyrosine affects glycosyltransferase-catalyzed synthesis of the O -glycan. Bioorganic and Medicinal Chemistry, 2000, 8, 1017-1025.	1.4	49
202	Synthesis and Evaluation of a New Fluorescent Transglycosylase Substrate: Lipid II-Based Molecule Possessing a Dansyl-C20 Polyprenyl Moiety. Organic Letters, 2010, 12, 1608-1611.	2.4	49
203	Combinatorial library of five-membered iminocyclitol and the inhibitory activities against glyco-enzymes. Chemistry and Biology, 2001, 8, 1061-1070.	6.2	48
204	Solution- and Solid-Phase Synthesis of N-Protected Glycopeptide Esters of the Benzyl Type as Substrates for Subtilisin-Catalyzed Glycopeptide Couplings. Journal of the American Chemical Society, 1998, 120, 1979-1989.	6.6	47
205	An efficient synthesis of CMP-3-fluoroneuraminic acid. Chemical Communications, 1999, , 1525-1526.	2.2	47
206	A Potent and Highly Selective Sulfotransferase Inhibitor. Journal of the American Chemical Society, 2002, 124, 14524-14525.	6.6	47
207	Development of Oseltamivir Phosphonate Congeners as Anti-influenza Agents. Journal of Medicinal Chemistry, 2012, 55, 8657-8670.	2.9	47
208	Signaling pathway of globo-series glycosphingolipids and Î²1,3-galactosyltransferase V (Î²3GalT5) in breast cancer. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 3518-3523.	3.3	46
209	Ligand Recognition by E- and P-Selectin:Â Chemoenzymatic Synthesis and Inhibitory Activity of Bivalent Sialyl Lewis x Derivatives and Sialyl Lewis x Carboxylic Acids. Journal of Organic Chemistry, 1998, 63, 5137-5143.	1.7	45
210	Quantitative Monitoring of Solid-Phase Synthesis Using Gated Decoupling13C NMR Spectroscopy with a13C-Enriched Protecting Group and an Internal Standard in the Synthesis of Sialyl LewisX Tetrasaccharide. Angewandte Chemie - International Edition, 1998, 37, 3415-3418.	7.2	44
211	Asymmetric Aldol Reactions Using Aldolases. Topics in Stereochemistry, 2003, , 267-342.	2.0	44
212	Synthesis and Vaccine Evaluation of the Tumor-Associated Carbohydrate Antigen RM2 from Prostate Cancer. Journal of the American Chemical Society, 2013, 135, 11140-11150.	6.6	44
213	The Dependence of Carbohydrateâ€“Aromatic Interaction Strengths on the Structure of the Carbohydrate. Journal of the American Chemical Society, 2016, 138, 7636-7648.	6.6	44
214	A Practical Method for the Synthesis ofN-Acetyl-D-lactosamine Derivatives by the Tandem Use of Galactose Oxidase andÎ²-Galactosidase. Angewandte Chemie International Edition in English, 1996, 35, 2348-2350.	4.4	43
215	Sugar-Assisted Ligation for the Synthesis of Glycopeptides. Chemistry - A European Journal, 2007, 13, 5670-5675.	1.7	43
216	A New Synthetic Approach toward Bacterial Transglycosylase Substrates, Lipid II and Lipid IV. Organic Letters, 2011, 13, 4600-4603.	2.4	43

#	Article	IF	Citations
217	Chemoenzymatic Synthesis of Sialyl-Trimeric-Lewis X. Chemistry - A European Journal, 2000, 6, 1243-1251.	1.7	43
218	Enzymatic Regeneration of 3â€²-Phosphoadenosine-5â€²-Phosphosulfate Using Aryl Sulfotransferase for the Preparative Enzymatic Synthesis of Sulfated Carbohydrates. Angewandte Chemie - International Edition, 1999, 38, 2747-2750.	7.2	42
219	Macrolactamization of Glycosylated Peptide Thioesters by the Thioesterase Domain of Tyrocidine Synthetase. Chemistry and Biology, 2004, 11, 1635-1642.	6.2	42
220	Inhibition of the Proteolytic Activity of Anthrax Lethal Factor by Aminoglycosides. Journal of the American Chemical Society, 2004, 126, 4774-4775.	6.6	42
221	Strategies for the preparation of homogenous glycoproteins. Current Opinion in Chemical Biology, 2006, 10, 638-644.	2.8	42
222	Automated Quantification of Hydroxyl Reactivities: Prediction of Glycosylation Reactions. Angewandte Chemie - International Edition, 2021, 60, 12413-12423.	7.2	42
223	Synthesis of Glycans from the Glycodelins: Two Undeca-, Two Deca-, Three Nona-, an Octa- and a Heptasaccharide. Chemistry - A European Journal, 1999, 5, 3326-3340.	1.7	41
224	Tyrosine Sulfation on a PSGL-1 Glycopeptide Influences the Reactivity of Glycosyltransferases Responsible for Synthesis of the AttachedO-Glycan. Journal of the American Chemical Society, 2000, 122, 742-743.	6.6	41
225	Enzymatic Synthesis of Lipidâ€...II and Analogues. Angewandte Chemie - International Edition, 2014, 53, 8060-8065.	7.2	41
226	A new strategy for the cloning, overexpression and one step purification of three DHAP-dependent aldolases: Rhamnulose-1-phosphate aldolase, fuculose-1-phosphate aldolase and tagatose-1,6-diphosphate aldolase1. Bioorganic and Medicinal Chemistry, 1995, 3, 945-953.	1.4	40
227	Synthesis and evaluation of general mechanism-based inhibitors of sulfatases based on (difluoro)methyl phenyl sulfate and cyclic phenyl sulfamate motifs. Bioorganic and Medicinal Chemistry, 2006, 14, 8386-8395.	1.4	40
228	New Continuous Fluorometric Assay for Bacterial Transglycosylase Using FÃ¶rster Resonance Energy Transfer. Journal of the American Chemical Society, 2013, 135, 17078-17089.	6.6	40
229	Substrate Preference and Interplay of FucosyltransferaseÂ8 and N-Acetylglucosaminyltransferases. Journal of the American Chemical Society, 2017, 139, 9431-9434.	6.6	39
230	Programmable One-Pot Synthesis of Heparin Pentasaccharide Fondaparinux. Organic Letters, 2020, 22, 4638-4642.	2.4	39
231	Combinatorial approach toward synthesis of small molecule libraries as bacterial transglycosylase inhibitors. Organic and Biomolecular Chemistry, 2010, 8, 2586.	1.5	38
232	Title is missing!. Angewandte Chemie, 2002, 114, 4261-4264.	1.6	37
233	Problems of Acyl Migration in Lipase-Catalyzed Enantioselecttve Transformation of Meso-1,3-Diol Systems. Biocatalysis, 1990, 3, 169-177.	0.9	36
234	A Continuous Assay for the Spectrophotometric Analysis of Sulfotransferases Using Aryl Sulfotransferase IV. Analytical Biochemistry, 1999, 274, 131-137.	1.1	36

#	Article	IF	Citations
235	Conversion of the carboxy group of sialic acid donors to a protected hydroxymethyl group yields an efficient reagent for the synthesis of the unnatural beta-linkage. Chemical Communications, 2001, , 974-975.	2.2	36
236	An Efficient Chemoenzymatic Strategy for the Synthesis of Wild-Type and Vancomycin-Resistant Bacterial Cell-Wall Precursors:Â UDP-N-acetylmuramyl-peptides. Journal of the American Chemical Society, 2001, 123, 9916-9917.	6.6	36
237	Engineering Enzymes for Bioorganic Synthesis: Peptide Bond Formation. Biotechnology Progress, 1996, 12, 423-433.	1.3	35
238	Why Is CMP-Ketodeoxyoctonate Highly Unstable?. Biochemistry, 1997, 36, 780-785.	1.2	35
239	In vivo selection for the directed evolution of l-rhamnulose aldolase from l-rhamnulose-1-phosphate aldolase (RhaD). Bioorganic and Medicinal Chemistry, 2007, 15, 5905-5911.	1.4	35
240	Programmable One-Pot Glycosylation. Topics in Current Chemistry, 2010, 301, 223-252.	4.0	35
241	Synthesis of Sialidase-Resistant Oligosaccharide and Antibody Glycoform Containing Î±2,6-Linked 3Fax-Neu5Ac. Journal of the American Chemical Society, 2019, 141, 6484-6488.	6.6	35
242	Remarkable Stereoselectivity in the Inhibition of ?-Galactosidase from Coffee Bean by a New Polyhydroxypyrrolidine Inhibitor. Angewandte Chemie International Edition in English, 1994, 33, 1242-1244.	4.4	34
243	Tetrabutylammonium fluoride-assisted rapid N9-alkylation on purine ring: Application to combinatorial reactions in microtiter plates for the discovery of potent sulfotransferase inhibitors in situ. Bioorganic and Medicinal Chemistry, 2005, 13, 4622-4626.	1.4	34
244	Enhanced Anti-influenza Agents Conjugated with Anti-inflammatory Activity. Journal of Medicinal Chemistry, 2012, 55, 8493-8501.	2.9	34
245	An Effective Bacterial Fucosidase for Glycoprotein Remodeling. ACS Chemical Biology, 2017, 12, 63-72.	1.6	34
246	Synthesis of lactosamine derivatives using Î²-d-galactosidase from Bacillus circulans. Bioorganic and Medicinal Chemistry Letters, 1996, 6, 1123-1126.	1.0	33
247	Mechanistic studies of Â-arylsulfotransferase IV. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 910-915.	3.3	33
248	Rapid Discovery of Potent Sulfotransferase Inhibitors by Diversity-Oriented Reaction in Microplates Followed by in situ Screening. ChemBioChem, 2004, 5, 811-819.	1.3	33
249	Identification of Novel Anthrax Lethal Factor Inhibitors Generated by Combinatorial Pictet-Spengler Reaction Followed by Screening in situ. ChemBioChem, 2005, 6, 1002-1006.	1.3	33
250	Unprecedented Role of Hybrid N-Glycans as Ligands for HIV-1 Broadly Neutralizing Antibodies. Journal of the American Chemical Society, 2018, 140, 5202-5210.	6.6	33
251	Programmable One-Pot Synthesis of Oligosaccharides. Biochemistry, 2020, 59, 3078-3088.	1.2	33
252	Structural studies of FIV and HIV-1 proteases complexed with an efficient inhibitor of FIV protease. , 2000, 38, 29-40.		32

#	Article	IF	Citations
253	Desorption Ionization of Biomolecules on Metals. Analytical Chemistry, 2008, 80, 5203-5210.	3.2	32
254	Recombinant Whole Cells as Catalysts for the Enzymatic Synthesis of Oligosaccharides and Glycopeptides. Angewandte Chemie International Edition in English, 1994, 33, 1241-1242.	4.4	31
255	Alteration of Substrate and Inhibitor Specificity of Feline Immunodeficiency Virus Protease. Journal of Virology, 2000, 74, 4710-4720.	1.5	31
256	Vancomycin Analogues Containing Monosaccharides Exhibit Improved Antibiotic Activity: A Combined One-Pot Enzymatic Glycosylation and Chemical Diversification Strategy. Chemistry - an Asian Journal, 2006, 1, 445-452.	1.7	31
257	Development of trifunctional probes for glycoproteomic analysis. Chemical Communications, 2010, 46, 5575.	2.2	31
258	Crystal Structure of a Homogeneous IgG-Fc Glycoform with the N-Glycan Designed to Maximize the Antibody Dependent Cellular Cytotoxicity. ACS Chemical Biology, 2017, 12, 1335-1345.	1.6	31
259	Development of glycosynthases with broad glycan specificity for the efficient glyco-remodeling of antibodies. Chemical Communications, 2018, 54, 6161-6164.	2.2	31
260	Egg-based influenza split virus vaccine with monoglycosylation induces cross-strain protection against influenza virus infections. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 4200-4205.	3.3	31
261	Synthesis of Solid-Supported Mirror-Image Sugars: A Novel Method for Selecting Receptors for Cellular-Surface Carbohydrates. ChemBioChem, 2001, 2, 741.	1.3	30
262	Acceptor Specificity and Inhibition of the Bacterial Cell-Wall Glycosyltransferase MurG. ChemBioChem, 2003, 4, 603-609.	1.3	30
263	Aminoglycoside array for the high-throughput analysis of small moleculeâ€“RNA interactions. Tetrahedron Letters, 2004, 45, 3639-3642.	0.7	30
264	A strategy for the one-pot synthesis of sialylated oligosaccharides. Canadian Journal of Chemistry, 2002, 80, 1051-1054.	0.6	29
265	Probing Glycans With the Copper(I)â€Catalyzed [3+2] Azideâ€“Alkyne Cycloaddition. QSAR and Combinatorial Science, 2007, 26, 1243-1252.	1.5	29
266	Purine-Type Compounds Induce Microtubule Fragmentation and Lung Cancer Cell Death through Interaction with Katanin. Journal of Medicinal Chemistry, 2016, 59, 8521-8534.	2.9	29
267	Viral Evolution in Response to the Broad-Based Retroviral Protease Inhibitor TL-3. Journal of Virology, 2001, 75, 9502-9508.	1.5	28
268	Model System for High-Throughput Screening of Novel Human Immunodeficiency Virus Protease Inhibitors in Escherichia coli. Antimicrobial Agents and Chemotherapy, 2004, 48, 2437-2447.	1.4	28
269	Targeting RNAs with Tobramycin Analogues. Angewandte Chemie - International Edition, 2004, 43, 6496-6500.	7.2	27
270	Effect of the Peptide Moiety of Lipidâ€...II on Bacterial Transglycosylase. Angewandte Chemie - International Edition, 2012, 51, 10123-10126.	7.2	26

#	Article	IF	Citations
271	Iminosugar C-Glycoside Analogues of Î±-<scp>d</scp>-GlcNAc-1-Phosphate: Synthesis and Bacterial Transglycosylase Inhibition. Journal of Organic Chemistry, 2014, 79, 8629-8637.	1.7	26
272	Glycosite-deleted mRNA of SARS-CoV-2 spike protein as a broad-spectrum vaccine. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	26
273	Opening of Thiiranes:Â Preparation of Orthogonal Protected 2-Thioglyceraldehyde. Journal of Organic Chemistry, 2001, 66, 910-914.	1.7	25
274	Glycosylated Natural Products. , 2005, , 685-711.		25
275	Breaking the low barrier hydrogen bond in a serine protease. Protein Science, 1999, 8, 410-417.	3.1	25
276	Investigation of SSEA-4 Binding Protein in Breast Cancer Cells. Journal of the American Chemical Society, 2013, 135, 5934-5937.	6.6	25
277	Tamiphosphor monoesters as effective anti-influenza agents. European Journal of Medicinal Chemistry, 2014, 81, 106-118.	2.6	25
278	Assembly of sugars on polystyrene plates: a new facile microarray fabrication technique. Tetrahedron Letters, 2004, 45, 2689-2692.	0.7	24
279	Affinity-Based Screen for Inhibitors of Bacterial Transglycosylase. Journal of the American Chemical Society, 2018, 140, 2752-2755.	6.6	24
280	Chimeric hemagglutinin vaccine elicits broadly protective CD4 and CD8 T cell responses against multiple influenza strains and subtypes. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 17757-17763.	3.3	23
281	Chemical, Enzymatic and Structural Studies in Molecular Glycobiology. Liebigs Annalen, 1997, 1997, 1059-1074.	0.8	22
282	Synthesis of N-Acetyllactosamine Derivatives with Variation in the Aglycon Moiety for the Study of Inhibition of Sialyl Lewis x Expression. ChemBioChem, 2003, 4, 835-840.	1.3	22
283	Glycan Arrays on Aluminumâ€Coated Glass Slides. Chemistry - an Asian Journal, 2008, 3, 1395-1405.	1.7	22
284	Colocalization of a CD1d-Binding Glycolipid with a Radiation-Attenuated Sporozoite Vaccine in Lymph Nodeâ€“Resident Dendritic Cells for a Robust Adjuvant Effect. Journal of Immunology, 2015, 195, 2710-2721.	0.4	22
285	Synthesis of N-acetylglucosamine thiazoline/lipid II hybrids. Tetrahedron Letters, 2001, 42, 615-618.	0.7	21
286	Rapid Preparation of Glycolipid Libraries by Cross Metathesis. Advanced Synthesis and Catalysis, 2002, 344, 622.	2.1	21
287	Synthetic Carbohydrate Chemistry and Translational Medicine. Journal of Organic Chemistry, 2020, 85, 15780-15800.	1.7	21
288	Randomized phase II/III trial of active immunotherapy with OPT-822/OPT-821 in patients with metastatic breast cancer.. Journal of Clinical Oncology, 2016, 34, 1003-1003.	0.8	21

#	Article	IF	Citations
289	Tetrabutylammonium Fluoride-Mediated Rapid Alkylation Reaction in Microtiter Plates for the Discovery of Enzyme Inhibitors in Situ. ChemBioChem, 2005, 6, 2176-2180.	1.3	20
290	Residues Comprising the Enhanced Aromatic Sequon Influence Protein N-Glycosylation Efficiency. Journal of the American Chemical Society, 2017, 139, 12947-12955.	6.6	20
291	Enzymatic Synthesis of Chiral Hydroxy Compounds Using Immobilized Glucose Dehydrogenase from Bacillus cereus for NAD(P)H Regeneration. Nature Biotechnology, 1985, 3, 649-651.	9.4	19
292	Probing the inhibition of leukotriene A4 hydrolase based on its aminopeptidase activity. Bioorganic and Medicinal Chemistry Letters, 1991, 1, 551-556.	1.0	19
293	Chemoenzymatic Synthesis and Fluorescent Visualization of Cell-Surface Selectin-Bound Sialyl Lewis X Derivatives. Chemistry - A European Journal, 2000, 6, 162-171.	1.7	19
294	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).. Angewandte Chemie, 2002, 114, 2275.	1.6	19
295	Altered Gag Polyprotein Cleavage Specificity of Feline Immunodeficiency Virus/Human Immunodeficiency Virus Mutant Proteases as Demonstrated in a Cell-Based Expression System. Journal of Virology, 2006, 80, 7832-7843.	1.5	19
296	Exploring human glycosylation for better therapies. Molecular Aspects of Medicine, 2016, 51, 125-143.	2.7	19
297	Autoreactivity to Sulfatide by Human Invariant NKT Cells. Journal of Immunology, 2017, 199, 97-106.	0.4	19
298	Development of bacterial transglycosylase inhibitors as new antibiotics: Moenomycin A treatment for drug-resistant Helicobacter pylori. Bioorganic and Medicinal Chemistry Letters, 2014, 24, 2412-2414.	1.0	18
299	Microbial Sialyltransferases for Carbohydrate Synthesis.. Trends in Glycoscience and Glycotechnology, 2001, 13, 345-360.	0.0	18
300	Chemoenzymatic synthesis of l-galactosylated dimeric Sialyl Lewis X structures employing Î±-1,3-fucosyltransferase V. Bioorganic and Medicinal Chemistry, 2000, 8, 2519-2525.	1.4	17
301	Directed Evolution of Aldolases. Methods in Enzymology, 2004, 388, 224-238.	0.4	17
302	A cell-permeable and triazole-forming fluorescent probe for glycoconjugate imaging in live cells. Chemical Communications, 2017, 53, 1490-1493.	2.2	17
303	Targeting the Bacterial Transglycosylase: Antibiotic Development from a Structural Perspective. ACS Infectious Diseases, 2019, 5, 1493-1504.	1.8	17
304	Cloning and Overexpression of a Tagged CMP-N-Acetylneuraminic Acid Synthetase from E.coliUsing a Lambda Phage System and Application of the Enzyme to the Synthesis of CMP-N-Acetylneuraminic Acid. Biocatalysis, 1992, 6, 31-42.	0.9	16
305	Development of a universal influenza vaccine using hemagglutinin stem protein produced from Pichia pastoris. Virology, 2019, 526, 125-137.	1.1	16
306	Practical Remdesivir Synthesis through One-Pot Organocatalyzed Asymmetric (S)-P-Phosphoramidation. Journal of Organic Chemistry, 2021, 86, 4977-4985.	1.7	16

#	Article	IF	Citations
307	The Synthesis of Novel 6-Amido-6-Deoxy-L-Galactose Derivatives as Potent Sialyl Lewisx Mimetics. Angewandte Chemie International Edition in English, 1996, 35, 2346-2348.	4.4	15
308	Probing the Activities and Mechanisms of Leukotriene A4 Hydrolase with Synthetic Inhibitors. Chemistry - A European Journal, 1998, 4, 1698-1713.	1.7	15
309	Surface Plasmon Resonance Study of RNAâ€“Aminoglycoside Interactions. Methods in Enzymology, 2003, 362, 340-353.	0.4	15
310	Glucosamineâ€6â€sulfamate Analogues of Heparan Sulfate as Inhibitors of Endosulfatases. ChemBioChem, 2010, 11, 2393-2397.	1.3	15
311	Programmable one-pot synthesis of tumor-associated carbohydrate antigens Lewis X dimer and KH-1 epitopes. Tetrahedron Letters, 2011, 52, 2132-2135.	0.7	15
312	Asymmetric epoxidation of allyl alcohol derivatives by Ï‰â€hydroxylase from Pseudomonas oleovorans. Recueil Des Travaux Chimiques Des Pays-Bas, 1991, 110, 167-170.	0.0	14
313	A Synthetic Retrotransition (Backward Reading) Sequence of the Right-Handed Three-Helix Bundle Domain (10-53) of Protein A Shows Similarity in Confomation as Predicted by Computation. Journal of the American Chemical Society, 1998, 120, 13042-13045.	6.6	13
314	Epoxide opening in water and screening in situ for rapid discovery of enzyme inhibitors in microtiter plates. Bioorganic and Medicinal Chemistry, 2006, 14, 1058-1062.	1.4	13
315	Enzymatic Synthesis of Glycopeptides and Glycoproteins. , 2006, , 37-63.		13
316	Hydroxyamine als neues Motiv fÃ¼r die molekulare Erkennung von Phosphodiestern: Hinweise auf Aminoglycosidâ€RNAâ€Wechselwirkungen. Angewandte Chemie, 1997, 109, 119-122.	1.6	12
317	Conjugation of Glycopeptide Thioesters to Expressed Protein Fragments: Semisynthesis of Glycosylated Interleukin-2. , 2004, 283, 255-266.		12
318	Undecaprenyl Phosphate Phosphatase Activity of Undecaprenol Kinase Regulates the Lipid Pool in Gram-Positive Bacteria. Biochemistry, 2017, 56, 5417-5427.	1.2	12
319	Synthesis of Asymmetric N-Glycans as Common Core Substrates for Structural Diversification through Selective Enzymatic Glycosylation. ACS Chemical Biology, 2020, 15, 2382-2394.	1.6	12
320	Homogeneous antibody and CAR-T cells with improved effector functions targeting SSEA-4 glycan on pancreatic cancer. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	12
321	Chemo-enzymatic Approach to Carbohydrate Recognition. Current Organic Chemistry, 1997, 1, 109-126.	0.9	12
322	Characterization of a transglycosylase domain of Streptococcus pneumoniae PBP1b. Bioorganic and Medicinal Chemistry, 2006, 14, 7187-7195.	1.4	11
323	Recent Advances in Aldolase-Catalyzed Synthesis of Unnatural Sugars and Iminocyclitols. Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry, 2008, 66, 605-615.	0.0	11
324	Free-electron-laser coherent diffraction images of individual drug-carrying liposome particles in solution. Nanoscale, 2018, 10, 2820-2824.	2.8	11

#	Article	IF	Citations
325	Trisaccharide Sulfate and Its Sulfonamide as an Effective Substrate and Inhibitor of Human Endo-O-sulfatase-1. Journal of the American Chemical Society, 2020, 142, 5282-5292.	6.6	11
326	Suppression of Drug-Resistant Non-Small-Cell Lung Cancer with Inhibitors Targeting Minichromosomal Maintenance Protein. Journal of Medicinal Chemistry, 2020, 63, 3172-3187.	2.9	11
327	The Chemistry of Sialic Acid. , 2005, , 55-102.		10
328	Disrupting the Conserved Salt Bridge in the Trimerization of Influenza A Nucleoprotein. Journal of Medicinal Chemistry, 2020, 63, 205-215.	2.9	10
329	Evaluation of sulfatase-directed quinone methide traps for proteomics. Bioorganic and Medicinal Chemistry, 2012, 20, 622-627.	1.4	9
330	XFEL coherent diffraction imaging for weakly scattering particles using heterodyne interference. AIP Advances, 2020, 10, .	0.6	9
331	Crystallization and preliminary crystallographic data for class I deoxyribose-5-phosphate aldolase fromEscherichia coli: An Application of Reverse Screening. Proteins: Structure, Function and Bioinformatics, 1995, 22, 67-72.	1.5	8
332	Structure-based rationalization of aldolase-catalyzed asymmetric synthesis. Canadian Journal of Chemistry, 2002, 80, 643-645.	0.6	8
333	Synthesis and Evaluation of Transition-State Analogue Inhibitors of ÃŽÂ±-1,3-Fucosyltransferase This work was supported by the NIH and the Skaggs Institute. M.L.M. acknowledges fellowships from UNCFÃ¢Â‹Â…Merck Science Initiative and Skaggs Predoctoral Fellows Program.. Angewandte Chemie, 2002, 114, 3167.	1.6	8
334	Sugar Arrays in Microtiter Plates. Methods in Enzymology, 2003, 362, 218-225.	0.4	8
335	Evaluation of RNA-binding specificity of aminoglycosides with DNA microarrays. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 12311-12316.	3.3	8
336	Design of Disaccharide Modules for a Programmable Oneâ€Pot Synthesis of Building Blocks with LacNAc Repeating Units for Asymmetric Nâ€Glycans. Asian Journal of Organic Chemistry, 2017, 6, 1800-1807.	1.3	8
337	Synthesis of modular building blocks using glycosyl phosphate donors for the construction of asymmetric N-glycans. Tetrahedron, 2018, 74, 6003-6011.	1.0	8
338	Automated Quantification of Hydroxyl Reactivities: Prediction of Glycosylation Reactions. Angewandte Chemie, 2021, 133, 12521-12531.	1.6	8
339	Synthesis of Oligosaccharides Using Glycosyltransferases.. Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry, 1992, 50, 441-450.	0.0	8
340	Studies on Angiotensinâ€Converting Enzyme Inhibitors: Protease Catalyzed Resolution of Aryl 3â€Mercaptoâ€2â€Methylpropionic Ester. Journal of the Chinese Chemical Society, 1989, 36, 451-458.	0.8	7
341	Biologically Relevant Glycopeptides: Synthesis and Applications. , 2008, , 1795-1857.		7
342	Glycopeptide Mimetics Recapitulate Highâ€Mannoseâ€Type Oligosaccharide Binding and Function. Angewandte Chemie - International Edition, 2015, 54, 5603-5608.	7.2	7

#	Article	IF	Citations
343	Towards new antibiotics targeting bacterial transglycosylase: Synthesis of a Lipid II analog as stable transition-state mimic inhibitor. Bioorganic and Medicinal Chemistry Letters, 2018, 28, 2708-2712.	1.0	7
344	Enzymatic Synthesis of Oligopeptide. Part I. Papainâ€Catalyzed Synthesis of Dipeptide, Tripeptide and Tetrapeptide. Journal of the Chinese Chemical Society, 1978, 25, 215-218.	0.8	6
345	Bemerkenswerte StereoselektivitÃt bei der Inhibierung von Î±â€Galactosidase aus Kaffeebohnen durch einen neuen Polyhydroxypyrrolidinâ€Inhibitor. Angewandte Chemie, 1994, 106, 1343-1345.	1.6	6
346	Rekombinante ganze Zellen als Katalysatoren fÃ¼r die enzymatische Synthese von Oligosacchariden und Glycopeptiden. Angewandte Chemie, 1994, 106, 1346-1347.	1.6	6
347	Synthese neuartiger 6â€Amidoâ€6â€desoxyâ€<scp>L</scp>â€galactoseâ€Derivate als potente Sialylâ€Lewis^xâ€Mimetica. Angewandte Chemie, 1996, 108, 2501-2503.	1.6	6
348	Synthesis of Biologically Active Glycopeptides. Journal of the Chinese Chemical Society, 1999, 46, 659-685.	0.8	6
349	Conformational Analysis of C-Glycosides and Related Compounds: Programming Conformational Profiles of C- and O-Glycosides. , 2005, , 305-340.		6
350	Glycosyltransferase Inhibitors. , 2005, , 609-659.		6
351	Synthetic Carbohydrate-Based Vaccines. , 2005, , 381-406.		6
352	Synthetic Multivalent Carbohydrate Ligands as Effectors or Inhibitors of Biological Processes. , 2005, , 575-608.		6
353	Design and Synthesis of Carbohydrate Mimetics: A New Strategy for Tackling the Problem of Carbohydrateâ€Mediated Biological Recognition. Journal of the Chinese Chemical Society, 1999, 46, 271-281.	0.8	5
354	Chemistry, Biochemistry, and Pharmaceutical Potentials of Glycosaminoglycans and Related Saccharides. , 2005, , 407-439.		5
355	Thermodynamic Models of the Multivalency Effect. , 2005, , 541-574.		5
356	Solid-Phase Oligosaccharide Synthesis. , 2005, , 103-127.		5
357	Enzymatic Synthesis of Oligosaccharides. , 2005, , 137-167.		5
358	Iminosugar-Based Glycosyltransferase Inhibitors. , 0, , 153-176.		5
359	Combined Effect of Anti-SSEA4 and Anti-Globo H Antibodies on Breast Cancer Cells. ACS Chemical Biology, 2021, 16, 1526-1537.	1.6	5
360	Electrochemistry in Organic Synthesis.: I. Largeâ€Scale Preparation of Cysteine From Cystine. Journal of the Chinese Chemical Society, 1978, 25, 149-151.	0.8	4

#	Article	IF	Citations
361	Solution and Polymer-Supported Synthesis of Carbohydrates. , 2005, , 129-136.		4
362	Modified and Modifying Sugars as a New Tool for the Development of Therapeutic Agents - Glycosidated Phospholipids as a New Type of Antiproliferative Agents. , 2005, , 875-882.		4
363	New Developments in Biocatalysis. Advanced Synthesis and Catalysis, 2007, 349, 1287-1287.	2.1	4
364	Influenza virus neuraminidase regulates host CD8+ T-cell response in mice. Communications Biology, 2020, 3, 748.	2.0	4
365	Design and synthesis of glyco-peptides as anti-cancer agents targeting thrombin-protease activated receptor-1 interaction. Chemical Communications, 2020, 56, 5827-5830.	2.2	4
366	Enzymatic Synthesis of Oligopeptide. Part II. Synthesis of Bis(N-Protected Amino Acid) Hydrazides by Papain. Journal of the Chinese Chemical Society, 1979, 26, 11-15.	0.8	3
367	RNA-Aminoglycoside Interactions. , 2005, , 661-683.		3
368	Glycopeptides and Glycoproteins: Synthetic Chemistry and Biology. , 2005, , 169-214.		3
369	Polysialic Acid Vaccines. , 2005, , 357-380.		3
370	A Preamble to Aglycone Reconstruction for Membrane-Presented Glycolipid Mimics. , 2005, , 761-779.		3
371	Carbohydrate-Based Treatment of Cancer Metastasis. , 2005, , 803-829.		3
372	Toward a Carbohydrate-Based HIV-1 Vaccine. ACS Symposium Series, 2006, , 161-185.	0.5	3
373	Toward a Carbohydrate-Based HIV-1 Vaccine. ACS Symposium Series, 2012, , 187-215.	0.5	3
374	Refinement of covalent EGFR inhibitor AZD9291 to eliminate off-target activity. Tetrahedron Letters, 2021, 74, 153178.	0.7	3
375	Synthesis of Azido-Globo H Analogs for Immunogenicity Evaluation. ACS Central Science, 2022, 8, 77-85.	5.3	3
376	Design and Synthesis of 6â€Oâ€Phosphorylated Heparan Sulfate Oligosaccharides to Inhibit Amyloid Î² Aggregation. ChemBioChem, 2022, 23, .	1.3	3
377	Sequencing of Oligosaccharides and Glycoproteins. , 2005, , 461-482.		2
378	N-Acetylneuraminic Acid Derivatives and Mimetics as Anti-Influenza Agents. , 2005, , 831-861.		2

#	Article	IF	Citations
379	Complex Carbohydrate Synthesis. , 2005, , 37-54.		2
380	Synthetic Lipid A Antagonists for Sepsis Treatment. , 2005, , 341-355.		2
381	Immunogenicity Evaluation of N-Glycans Recognized by HIV Broadly Neutralizing Antibodies. ACS Chemical Biology, 2021, 16, 2016-2025.	1.6	2
382	Carbohydrate Mimetics: A New Strategy for Tackling the Problem of Carbohydrate-Mediated Biological Recognition. , 1999, 38, 2300.		2
383	The Resolution of Amino Acids by Enzymes Part 1: Proteolytic Enzyme Bromelain for Hydrolysis of <scp>L</scp>â€Amino Acid Methyl Esters. Journal of the Chinese Chemical Society, 1977, 24, 129-133.	0.8	1
384	The Resolution of RSâ€Mandelic Acid. Journal of the Chinese Chemical Society, 1979, 26, 75-78.	0.8	1
385	Synthetic Methodologies. , 2005, , 1-36.		1
386	Carbohydrate-Based Drug Discovery in the Battle against Bacterial Infections: New Opportunities Arising from Programmable One-Pot Oligosaccharide Synthesis. , 2005, , 899-932.		1
387	Small Molecule Inhibitors of the Sulfotransferases. , 2005, , 781-801.		1
388	Synthesis of Complex Carbohydrates: Everninomicin. , 2005, , 215-252.		1
389	Chemistry and Biochemistry of Asparagine-Linked Protein Glycosylation. , 2005, , 281-303.		1
390	Analytical Techniques for the Characterization and Sequencing of Glycosaminoglycans. , 2005, , 517-539.		1
391	Highlights in Chemical Glycobiology. Israel Journal of Chemistry, 2019, 59, 18-22.	1.0	1
392	Chemoenzymatic Synthesis Chemo-enzymatic synthesis of Glycans Glycans : Overview. , 2015, , 293-294.		1
393	Synthesis of Taiwan Cobra Venom Cardiotoxin II Synthesis of Protected Hexapeptide, Sequence 44â€49 and Protected Tripeptide, Sequence 50â€52. Journal of the Chinese Chemical Society, 1976, 23, 155-164.	0.8	0
394	The Mutual Resoluton of Dlâ€ephedrine and Nâ€Benzyloxycarbonylâ€Dlâ€Amino Acids. Journal of the Chinese Chemical Society, 1978, 25, 209-214.	0.8	0
395	Enantioselective Syntheses of Plate Letâ€Activating Factor and a Phospholipase A₂ Inhibitor from Chiral Synthons Prepared Enzymatically. Journal of the Chinese Chemical Society, 1989, 36, 463-468.	0.8	0
396	New Developments in Biocatalysis. Advanced Synthesis and Catalysis, 2003, 345, 651-651.	2.1	0

#	Article	IF	Citations
397	Sulfotransferases: Structure, Mechanism, Biological Activity, Inhibition, and Synthetic Utility. ChemInform, 2004, 35, no.	0.1	0
398	Strategies for Creating the Diversity of Oligosaccharides. , 2004, , 706-722.		0
399	A Wide Range of Strategies Yields New Enzymatic Reactions and Processes. Advanced Synthesis and Catalysis, 2005, 347, 901-901.	2.1	0
400	Sulfatases: Structure, Mechanism, Biological Activity, Inhibition, and Synthetic Utility. ChemInform, 2005, 36, no.	0.1	0
401	Enzyme Inhibitors. , 2005, , 356-368.		0
402	Chemical Synthesis of Asparagine-Linked Glycoprotein Oligosaccharides: Recent Examples. , 2005, , 253-280.		0
403	Novel Enzymatic Mechanisms in the Biosynthesis of Unusual Sugars. , 2005, , 713-745.		0
404	Glycosylation Analysis of a Recombinant P-Selectin Antagonist by High-pH Anion-Exchange Chromatography with Pulsed Electrochemical Detection (HPAEC/PED). , 2005, , 501-516.		0
405	Neoglycolipids: Identification of Functional Carbohydrate Epitopes. , 2005, , 747-760.		0
406	A New Generation of Antithrombotics Based on Synthetic Oligosaccharides. , 2005, , 441-459.		0
407	Preparation of Heterocyclic 2-Deoxystreptamine Aminoglycoside Analogues and Characterization of Their Interaction with RNAs by Use of Electrospray Ionization Mass Spectrometry. , 2005, , 483-499.		0
408	Glycoside Primers and Inhibitors of Glycosylation. , 2005, , 883-898.		0
409	Modified and Modifying Sugars as a New Tool for the Development of Therapeutic Agents - The Biochemically Engineered N-Acyl Side Chain of Sialic Acid: Biological Implications and Possible Uses in Medicine. , 2005, , 863-873.		0
410	CARBOHYDRATE CHEMISTRY AND BIOLOGY. , 2014, , .		0
411	Automation in Glycan Synthesis. , 2014, , 1-7.		0
412	Prologue: Biological Glycosylation - From Understanding to Problem Solving. Israel Journal of Chemistry, 2015, 55, 254-255.	1.0	0
413	Hierarchical and Programmable One-Pot Oligosaccharide Synthesis. Journal of Visualized Experiments, 2019, , .	0.2	0
414	Carbohydrates | Carbohydrate Chains: Enzymatic and Chemical Synthesis. , 2021, , 604-609.		0

#	Article	IF	Citations
415	Automated Programmable One-Pot Synthesis of Glycans. , 2014, , 1-7.		0
416	Automated Programmable One-Pot Synthesis of Glycans. , 2015, , 45-52.		0
417	Automation in Glycan Synthesis. , 2015, , 345-351.		0