Yanhong Li

List of Publications by Year in descending order

		186265	206112
52	2,454	28	48
papers	citations	h-index	g-index

54	54	54	2098
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Sialic acid metabolism and sialyltransferases: natural functions and applications. Applied Microbiology and Biotechnology, 2012, 94, 887-905.	3.6	214
2	An Infant-associated Bacterial Commensal Utilizes Breast Milk Sialyloligosaccharides. Journal of Biological Chemistry, 2011, 286, 11909-11918.	3.4	164
3	A Sialyltransferase Mutant with Decreased Donor Hydrolysis and Reduced Sialidase Activities for Directly Sialylating Lewis^x. ACS Chemical Biology, 2012, 7, 1232-1240.	3.4	135
4	Efficient one-pot multienzyme synthesis of UDP-sugars using a promiscuous UDP-sugar pyrophosphorylase from Bifidobacterium longum (BLUSP). Chemical Communications, 2012, 48, 2728.	4.1	114
5	Efficient chemoenzymatic synthesis of an N-glycan isomer library. Chemical Science, 2015, 6, 5652-5661.	7.4	114
6	Pasteurella multocida sialic acid aldolase: a promising biocatalyst. Applied Microbiology and Biotechnology, 2008, 79, 963-70.	3.6	108
7	Remodeling bacterial polysaccharides by metabolic pathway engineering. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 4207-4212.	7.1	107
8	One-pot three-enzyme synthesis of UDP-GlcNAc derivatives. Chemical Communications, 2011, 47, 10815.	4.1	97
9	Multifunctionality of Campylobacter jejuni sialyltransferase CstII: Characterization of GD3/GT3 oligosaccharide synthase, GD3 oligosaccharide sialidase, and trans-sialidase activities. Glycobiology, 2008, 18, 686-697.	2.5	80
10	Substrate Promiscuity of N-Acetylhexosamine 1-Kinases. Molecules, 2011, 16, 6396-6407.	3.8	74
11	Highly efficient chemoenzymatic synthesis of Î²1â€“3-linked galactosides. Chemical Communications, 2010, 46, 7507.	4.1	72
12	The one-pot multienzyme (OPME) synthesis of human blood group H antigens and a human milk oligosaccharide (HMOS) with highly active Thermosynechococcus elongatus Î±1â€“2-fucosyltransferase. Chemical Communications, 2016, 52, 3899-3902.	4.1	58
13	Sequential One-Pot Multienzyme Chemoenzymatic Synthesis of Glycosphingolipid Glycans. Journal of Organic Chemistry, 2016, 81, 10809-10824.	3.2	54
14	Identifying selective inhibitors against the human cytosolic sialidase NEU2 by substrate specificity studies. Molecular BioSystems, 2011, 7, 1060.	2.9	53
15	H. pylori Î±1â€“3/4-fucosyltransferase (Hp3/4FT)-catalyzed one-pot multienzyme (OPME) synthesis of Lewis antigens and human milk fucosides. Chemical Communications, 2017, 53, 11012-11015.	4.1	53
16	Decreasing the sialidase activity of multifunctional Pasteurella multocidaÎ±2â€“3-sialyltransferase 1 (PmST1) by site-directed mutagenesis. Molecular BioSystems, 2011, 7, 3021.	2.9	46
17	Donor substrate promiscuity of bacterial Î²1â€“3-N-acetylglucosaminyltransferases and acceptor substrate flexibility of Î²1â€“4-galactosyltransferases. Bioorganic and Medicinal Chemistry, 2016, 24, 1696-1705.	3.0	46
18	One-pot multi-enzyme (OPME) chemoenzymatic synthesis of sialyl-Tn-MUC1 and sialyl-T-MUC1 glycopeptides containing natural or non-natural sialic acid. Bioorganic and Medicinal Chemistry, 2013, 21, 4778-4785.	3.0	45

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19	Characterization of Receptor Binding Profiles of Influenza A Viruses Using An Ellipsometry-Based Label-Free Glycan Microarray Assay Platform. Biomolecules, 2015, 5, 1480-1498.	4.0	44
20	Efficient chemoenzymatic synthesis of sialyl Tn-antigens and derivatives. Chemical Communications, 2011, 47, 8691.	4.1	43
21	Identification of the binding roles of terminal and internal glycan epitopes using enzymatically synthesized N-glycans containing tandem epitopes. Organic and Biomolecular Chemistry, 2016, 14, 11106-11116.	2.8	42
22	Streamlined chemoenzymatic total synthesis of prioritized ganglioside cancer antigens. Organic and Biomolecular Chemistry, 2018, 16, 4076-4080.	2.8	41
23	Probe sialidase substrate specificity using chemoenzymatically synthesized sialosides containing C9-modified sialic acid. Chemical Communications, 2012, 48, 3357.	4.1	40
24	PmST3 from Pasteurella multocida encoded by Pm1174 gene is a monofunctional Î±2â€“3-sialyltransferase. Applied Microbiology and Biotechnology, 2012, 94, 977-985.	3.6	37
25	Pasteurella multocida CMP-sialic acid synthetase and mutants of Neisseria meningitidis CMP-sialic acid synthetase with improved substrate promiscuity. Applied Microbiology and Biotechnology, 2012, 93, 2411-2423.	3.6	37
26	Chemical preparation of sialyl Lewis x using an enzymatically synthesized sialoside building block. Carbohydrate Research, 2008, 343, 2863-2869.	2.3	36
27	High-throughput neuraminidase substrate specificity study of human and avian influenza A viruses. Virology, 2011, 415, 12-19.	2.4	32
28	Systematic chemoenzymatic synthesis of O-sulfated sialyl Lewis x antigens. Chemical Science, 2016, 7, 2827-2831.	7.4	31
29	Cloning and characterization of a viral Î±2â€“3-sialyltransferase (vST3Gal-I) for the synthesis of sialyl Lewisx. Glycobiology, 2011, 21, 387-396.	2.5	30
30	A Diazido Mannose Analogue as a Chemoenzymatic Synthon for Synthesizing Diâ€‹Nâ€acetyllegionaminic Acidâ€Containing Glycosides. Angewandte Chemie - International Edition, 2018, 57, 2929-2933.	13.8	28
31	Chemoenzymatic synthesis of sialosides containing C7-modified sialic acids and their application in sialidase substrate specificity studies. Carbohydrate Research, 2014, 389, 100-111.	2.3	26
32	Chemoenzymatic synthesis of Neu5Ac9NAc-containing Î±2â€“3- and Î±2â€“6-linked sialosides and their use for sialidase substrate specificity studies. Carbohydrate Research, 2017, 451, 51-58.	2.3	26
33	Highly efficient chemoenzymatic synthesis and facile purification of Î±-Gal pentasaccharyl ceramide GalÎ±3nLc₄Î²Cer. Chemical Communications, 2017, 53, 8280-8283.	4.1	24
34	High-throughput pyrosequencing used for the discovery of a novel cellulase from a thermophilic cellulose-degrading microbial consortium. Biotechnology Letters, 2017, 39, 123-131.	2.2	23
35	Biochemical characterization of Helicobacter pylori Î±1â€“3-fucosyltransferase and its application in the synthesis of fucosylated human milk oligosaccharides. Carbohydrate Research, 2019, 480, 1-6.	2.3	23
36	Effective one-pot multienzyme (OPME) synthesis of monotreme milk oligosaccharides and other sialosides containing 4-O-acetyl sialic acid. Organic and Biomolecular Chemistry, 2016, 14, 8586-8597.	2.8	22

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37	Crystal structures of sialyltransferase from Photobacterium damselae. FEBS Letters, 2014, 588, 4720-4729.	2.8	21
38	A Photobacterium sp. Î±2â€“6-sialyltransferase (Psp2,6ST) mutant with an increased expression level and improved activities in sialylating Tn antigens. Carbohydrate Research, 2015, 408, 127-133.	2.3	21
39	Donor substrate promiscuity of the N-acetylglucosaminyltransferase activities of Pasteurella multocida heparosan synthase 2 (PmHS2) and Escherichia coli K5 KfiA. Applied Microbiology and Biotechnology, 2014, 98, 1127-1134.	3.6	20
40	Chemoenzymatic synthesis of para-nitrophenol (pNP)-tagged Î±2â€“8-sialosides and high-throughput substrate specificity studies of Î±2â€“8-sialidases. Organic and Biomolecular Chemistry, 2017, 15, 160-167.	2.8	20
41	Oneâ€Pot Multienzyme Synthesis of Lewis x and Sialyl Lewis x Antigens. Current Protocols in Chemical Biology, 2012, 4, 233-247.	1.7	19
42	Sialidase-Catalyzed One-Pot Multienzyme (OPME) Synthesis of Sialidase Transition-State Analogue Inhibitors. ACS Catalysis, 2018, 8, 43-47.	11.2	19
43	Regioselective One-Pot Multienzyme (OPME) Chemoenzymatic Strategies for Systematic Synthesis of Sialyl Core 2 Glycans. ACS Catalysis, 2019, 9, 211-215.	11.2	18
44	The Hd0053 gene of Haemophilus ducreyi encodes an Î±2,3-sialyltransferase. Biochemical and Biophysical Research Communications, 2007, 361, 555-560.	2.1	16
45	Triazole-linked transition state analogs as selective inhibitors against V. cholerae sialidase. Bioorganic and Medicinal Chemistry, 2018, 26, 5751-5757.	3.0	14
46	Streptococcus pneumoniae Sialidase SpNanB-Catalyzed One-Pot Multienzyme (OPME) Synthesis of 2,7-Anhydro-Sialic Acids as Selective Sialidase Inhibitors. Journal of Organic Chemistry, 2018, 83, 10798-10804.	3.2	14
47	EnterococcusÂfaecalis Î±1â€“2â€mannosidase (EfManâ€): an efficient catalyst for glycoprotein Nâ€glycan modification. FEBS Letters, 2020, 594, 439-451.	2.8	9
48	Production of Glycopeptide Derivatives for Exploring Substrate Specificity of Human OGA Toward Sugar Moiety. Frontiers in Chemistry, 2018, 6, 646.	3.6	8
49	A Diazido Mannose Analogue as a Chemoenzymatic Synthon for Synthesizing Diâ€Nâ€acetyllegionaminic Acidâ€Containing Glycosides. Angewandte Chemie, 2018, 130, 2979-2983.	2.0	7
50	Catalytic Cycle of Neisseria meningitidis CMP-Sialic Acid Synthetase Illustrated by High-Resolution Protein Crystallography. Biochemistry, 2020, 59, 3157-3168.	2.5	5
51	Labeling glycans on living cells by a chemoenzymatic glycoengineering approach. Biology Open, 2017, 6, 923-927.	1.2	4
52	Glycoproteins: Chemical Features and Biological Roles. , 2015, , 3-33.		0