

Hongzhi Cao

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8932834/publications.pdf>

Version: 2024-02-01

62
papers

3,349
citations

159358

30
h-index

143772

57
g-index

63
all docs

63
docs citations

63
times ranked

3924
citing authors

#	ARTICLE	IF	CITATIONS
1	Enzymatic modular assembly of hybrid Lewis antigens. <i>Organic and Biomolecular Chemistry</i> , 2021, 19, 8041-8048.	1.5	4
2	Improve Stability of Bioactive Peptides by Enzymatic Modular Synthesis of Peptides with <i>O</i> -Linked Sialyl Lewis x. <i>ACS Catalysis</i> , 2021, 11, 8042-8048.	5.5	2
3	Synthesis of Rare 6-Deoxy- <i>D</i> -Heptopyranosyl Fluorides: Assembly of a Hexasaccharide Corresponding to <i>Campylobacter jejuni</i> Strain CG8486 Capsular Polysaccharide. <i>Journal of the American Chemical Society</i> , 2021, 143, 11171-11179.	6.6	19
4	Chemoenzymatic Synthesis of 9NHAcGD2 Antigen to Overcome the Hydrolytic Instability of <i>O</i> -AcetylatedGD2 for Anticancer Conjugate Vaccine Development. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 24179-24188.	7.2	21
5	Installation of high-affinity Siglec-1 ligand on tumor surface for macrophage-engaged tumor suppression. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2021, 50, 128328.	1.0	0
6	Highly efficient biocatalytic cascade for the diversity-oriented synthesis of complex blood group Sd antigens. <i>Green Chemistry</i> , 2020, 22, 8002-8011.	4.6	7
7	Liquid-Phase and Ultrahigh-Frequency-Acoustofluidics-Based Solid-Phase Synthesis of Biotin-Tagged 6-Sialyl-N-Acetylglucosamine by Sequential One-Pot Multienzyme System. <i>Catalysts</i> , 2020, 10, 1347.	1.6	3
8	Enzymatic modular synthesis and microarray assay of poly- <i>N</i> -acetylactosamine derivatives. <i>Chemical Communications</i> , 2020, 56, 7549-7552.	2.2	15
9	Glycoengineering of Natural Killer Cells with CD22 Ligands for Enhanced Anticancer Immunotherapy. <i>ACS Central Science</i> , 2020, 6, 382-389.	5.3	49
10	Reprogramming the enzymatic assembly line for site-specific fucosylation. <i>Nature Catalysis</i> , 2019, 2, 514-522.	16.1	52
11	Redox-Controlled Site-Specific α -6-Sialylation. <i>Journal of the American Chemical Society</i> , 2019, 141, 4547-4552.	6.6	31
12	Chemoenzymatic Synthesis of <i>O</i> -Mannose Glycans Containing Sulfated or Nonsulfated HNK-1 Epitope. <i>Journal of the American Chemical Society</i> , 2019, 141, 19351-19359.	6.6	22
13	Chemoenzymatic Assembly of Mammalian α -Mannose Glycans. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 9003-9007.	7.2	44
14	Successfully Engineering a Bacterial Sialyltransferase for Regioselective α -2,6-sialylation. <i>ACS Catalysis</i> , 2018, 8, 7222-7227.	5.5	24
15	Regioselective One-Pot Benzoylation of Triol and Tetraol Arrays in Carbohydrates. <i>Organic Letters</i> , 2018, 20, 3862-3865.	2.4	10
16	Enzymatic synthesis of human blood group P1 pentasaccharide antigen. <i>Carbohydrate Research</i> , 2017, 438, 39-43.	1.1	9
17	Detection and differentiation of influenza viruses with glycan-functionalized gold nanoparticles. <i>Biosensors and Bioelectronics</i> , 2017, 91, 46-52.	5.3	49
18	Synthesis of Sialic Acids, Their Derivatives, and Analogs by Using a Whole-Cell Catalyst. <i>Chemistry - A European Journal</i> , 2017, 23, 15143-15149.	1.7	13

#	ARTICLE	IF	CITATIONS
19	The 2nd National Conference on Synthetic Carbohydrate Chemistry, Chinese Chemical Society (CARB) Tj ETQq1 1 0,784314 0,4	0,4	1
20	Chemoenzymatic synthesis of tumor-associated antigen N3 minor octasaccharide. Journal of Carbohydrate Chemistry, 2016, 35, 412-422.	0.4	1
21	Diversity-Oriented Enzymatic Modular Assembly of ABO Histo-blood Group Antigens. ACS Catalysis, 2016, 6, 8140-8144.	5.5	30
22	Sequential one-pot multienzyme (OPME) synthesis of lacto-N-neotetraose and its sialyl and fucosyl derivatives. Chemical Communications, 2015, 51, 7689-7692.	2.2	71
23	Anti-tumor activity and the mechanism of SIP-S: A sulfated polysaccharide with anti-metastatic effect. Carbohydrate Polymers, 2015, 129, 50-54.	5.1	30
24	A novel pentapeptide originated from calf thymus named TIPP shows an inhibitory effect on lung allergic inflammation. International Immunopharmacology, 2015, 24, 256-266.	1.7	6
25	Synthesis of unsymmetrical 3,6-branched Man5 oligosaccharide: a comparison between one-pot sequential glycosylation and stepwise synthesis. Carbohydrate Research, 2015, 401, 109-114.	1.1	12
26	Structural characterization and antioxidant activities of $\hat{\text{I}}^{\text{S}}$ -carrageenan oligosaccharides degraded by different methods. Food Chemistry, 2015, 178, 311-318.	4.2	121
27	Chemoenzymatic synthesis of $\hat{\text{I}}^{\text{S}}$ -dystroglycan core M1 O-mannose glycans. Chemical Communications, 2015, 51, 11654-11657.	2.2	19
28	Chemoenzymatic synthesis of lacto-N-tetrasaccharide and sialyl lacto-N-tetrasaccharides. Carbohydrate Research, 2015, 401, 5-10.	1.1	45
29	Sulphation pattern analysis of chemically sulphated polysaccharide LbGp1 from Lycium barbarum by GC-MS. Food Chemistry, 2015, 170, 22-29.	4.2	28
30	The Cost-Efficiency Realization in the Escherichia coli-Based Cell-Free Protein Synthesis Systems. Applied Biochemistry and Biotechnology, 2014, 174, 2351-2367.	1.4	13
31	Regioselective Chemoenzymatic Synthesis of Ganglioside Disialyl Tetrasaccharide Epitopes. Journal of the American Chemical Society, 2014, 136, 5205-5208.	6.6	51
32	Anti-metastatic and anti-angiogenic activities of sulfated polysaccharide of Sepiella maindroni ink. Carbohydrate Polymers, 2013, 91, 403-409.	5.1	46
33	Quantum Dot Nanometal Surface Energy Transfer Based Biosensing of Sialic Acid Compositions and Linkages in Biological Samples. Analytical Chemistry, 2013, 85, 3864-3870.	3.2	35
34	Chemoenzymatic synthesis of mono- and di-fluorinated Thomsen-Friedenreich (T) antigens and their sialylated derivatives. Organic and Biomolecular Chemistry, 2013, 11, 842-848.	1.5	23
35	Structural Basis for Substrate Specificity and Mechanism of <i>N</i> -Acetyl-neuraminic Acid Lyase from <i>Pasteurella multocida</i> . Biochemistry, 2013, 52, 8570-8579.	1.2	20
36	General Consideration on Sialic Acid Chemistry. Methods in Molecular Biology, 2012, 808, 31-56.	0.4	16

#	ARTICLE	IF	CITATIONS
37	Synthesis of selective inhibitors against <i>V. cholerae</i> sialidase and human cytosolic sialidase NEU2. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 6112.	1.5	25
38	Probe sialidase substrate specificity using chemoenzymatically synthesized sialosides containing C9-modified sialic acid. <i>Chemical Communications</i> , 2012, 48, 3357.	2.2	40
39	Anticancer polysaccharides from natural resources: A review of recent research. <i>Carbohydrate Polymers</i> , 2012, 90, 1395-1410.	5.1	562
40	<i>Pasteurella multocida</i> CMP-sialic acid synthetase and mutants of <i>Neisseria meningitidis</i> CMP-sialic acid synthetase with improved substrate promiscuity. <i>Applied Microbiology and Biotechnology</i> , 2012, 93, 2411-2423.	1.7	37
41	Recent Advances in the Synthesis of Heparan Sulfate Oligosaccharides. <i>Chinese Journal of Organic Chemistry</i> , 2012, 32, 1388.	0.6	0
42	Human Xeno-Autoantibodies against a Non-Human Sialic Acid Serve as Novel Serum Biomarkers and Immunotherapeutics in Cancer. <i>Cancer Research</i> , 2011, 71, 3352-3363.	0.4	136
43	Identifying selective inhibitors against the human cytosolic sialidase NEU2 by substrate specificity studies. <i>Molecular BioSystems</i> , 2011, 7, 1060.	2.9	53
44	Substrate Promiscuity of N-Acetylhexosamine 1-Kinases. <i>Molecules</i> , 2011, 16, 6396-6407.	1.7	74
45	High-throughput neuraminidase substrate specificity study of human and avian influenza A viruses. <i>Virology</i> , 2011, 415, 12-19.	1.1	32
46	Chemoenzymatic synthesis of C8-modified sialic acids and related α -3- and α -6-linked sialosides. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011, 21, 5037-5040.	1.0	50
47	A Sialylated Glycan Microarray Reveals Novel Interactions of Modified Sialic Acids with Proteins and Viruses. <i>Journal of Biological Chemistry</i> , 2011, 286, 31610-31622.	1.6	125
48	Amelioration of sepsis by inhibiting sialidase-mediated disruption of the CD24-SiglecG interaction. <i>Nature Biotechnology</i> , 2011, 29, 428-435.	9.4	158
49	Recent progress in chemical and chemoenzymatic synthesis of carbohydrates. <i>Current Opinion in Chemical Biology</i> , 2009, 13, 573-581.	2.8	124
50	Parallel chemoenzymatic synthesis of sialosides containing a C5-diversified sialic acid. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2009, 19, 5869-5871.	1.0	18
51	Chemoenzymatic Synthesis of a New Class of Macrocyclic Oligosaccharides. <i>Journal of Organic Chemistry</i> , 2009, 74, 2928-2936.	1.7	66
52	Sialidase substrate specificity studies using chemoenzymatically synthesized sialosides containing C5-modified sialic acids. <i>Organic and Biomolecular Chemistry</i> , 2009, 7, 5137.	1.5	55
53	Evidence for a novel human-specific xeno-auto-antibody response against vascular endothelium. <i>Blood</i> , 2009, 114, 5225-5235.	0.6	107
54	<i>Pasteurella multocida</i> sialic acid aldolase: a promising biocatalyst. <i>Applied Microbiology and Biotechnology</i> , 2008, 79, 963-70.	1.7	108

#	ARTICLE	IF	CITATIONS
55	Chemical preparation of sialyl Lewis x using an enzymatically synthesized sialoside building block. <i>Carbohydrate Research</i> , 2008, 343, 2863-2869.	1.1	36
56	Diversity in specificity, abundance, and composition of anti-Neu5Gc antibodies in normal humans: Potential implications for disease. <i>Glycobiology</i> , 2008, 18, 818-830.	1.3	297
57	NeuA Sialic Acid O-Acetyltransferase Activity Modulates O-Acetylation of Capsular Polysaccharide in Group B Streptococcus. <i>Journal of Biological Chemistry</i> , 2007, 282, 27562-27571.	1.6	45
58	Enzymatic Synthesis of Fluorinated Mechanistic Probes for Sialidases and Sialyltransferases. <i>Journal of the American Chemical Society</i> , 2007, 129, 10630-10631.	6.6	75
59	Crystal Structures of <i>Pasteurella multocida</i> Sialyltransferase Complexes with Acceptor and Donor Analogues Reveal Substrate Binding Sites and Catalytic Mechanism. <i>Biochemistry</i> , 2007, 46, 6288-6298.	1.2	97
60	Synthesis of a S-linked heparan sulfate trisaccharide as the substrate mimic of heparanase. <i>Tetrahedron Letters</i> , 2005, 46, 4337-4340.	0.7	21
61	One-Pot Glycosylation (OPG) for the Chemical Synthesis of Oligosaccharides. <i>Current Organic Chemistry</i> , 2005, 9, 179-194.	0.9	58
62	1,2 Migration and concurrent glycosidation of phenyl 1-thio- β -mannopyranosides via 2,3-O-cyclic dioxonium intermediates. <i>Tetrahedron</i> , 2003, 59, 249-254.	1.0	9