

Harshal A Chokhawala

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

1,442
citations

430442

18
h-index

676716

22
g-index

24
all docs

24
docs citations

24
times ranked

1788
citing authors

#	ARTICLE	IF	CITATIONS
1	Identification and characterization of a multidomain hyperthermophilic cellulase from an archaeal enrichment. <i>Nature Communications</i> , 2011, 2, 375.	5.8	163
2	One-pot three-enzyme chemoenzymatic approach to the synthesis of sialosides containing natural and non-natural functionalities. <i>Nature Protocols</i> , 2006, 1, 2485-2492.	5.5	138
3	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
4	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
5	Cross-comparison of Protein Recognition of Sialic Acid Diversity on Two Novel Sialoglycan Microarrays. <i>Journal of Biological Chemistry</i> , 2012, 287, 22593-22608.	1.6	116
6	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
7	Multifunctionality of <i>Campylobacter jejuni</i> sialyltransferase CstII: Characterization of GD3/GT3 oligosaccharide synthase, GD3 oligosaccharide sialidase, and trans-sialidase activities. <i>Glycobiology</i> , 2008, 18, 686-697.	1.3	80
8	High-Throughput Substrate Specificity Studies of Sialidases by Using Chemoenzymatically Synthesized Sialoside Libraries. <i>ChemBioChem</i> , 2007, 8, 194-201.	1.3	79
9	Combinatorial Chemoenzymatic Synthesis and High-Throughput Screening of Sialosides. <i>ACS Chemical Biology</i> , 2008, 3, 567-576.	1.6	79
10	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
11	Mutagenesis of <i>Trichoderma reesei</i> endoglucanase I: impact of expression host on activity and stability at elevated temperatures. <i>BMC Biotechnology</i> , 2015, 15, 11.	1.7	56
12	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
13	Fluorescent labeling agents change binding profiles of glycan-binding proteins. <i>Molecular BioSystems</i> , 2011, 7, 3343.	2.9	49
14	Binding modules alter the activity of chimeric cellulases: Effects of biomass pretreatment and enzyme source. <i>Biotechnology and Bioengineering</i> , 2010, 107, 601-611.	1.7	42
15	N-Terminal 112 amino acid residues are not required for the sialyltransferase activity of <i>Photobacterium damsela</i> α 2,6-sialyltransferase. <i>Biotechnology Letters</i> , 2008, 30, 671-676.	1.1	39
16	Efficient chemoenzymatic synthesis of biotinylated human serum albumin α 2-sialoglycoside conjugates containing O-acetylated sialic acids. <i>Organic and Biomolecular Chemistry</i> , 2007, 5, 2458-2463.	1.5	34
17	The importance of pyroglutamate in cellulase Cel7A. <i>Biotechnology and Bioengineering</i> , 2014, 111, 842-847.	1.7	29
18	High-Throughput In-Vitro Glycoside Hydrolase (HIGH) Screening for Enzyme Discovery. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 11215-11218.	7.2	23

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19	The Hd0053 gene of <i>Haemophilus ducreyi</i> encodes an α 2,3-sialyltransferase. <i>Biochemical and Biophysical Research Communications</i> , 2007, 361, 555-560.	1.0	16
20	An optics-based variable-temperature assay system for characterizing thermodynamics of biomolecular reactions on solid support. <i>Review of Scientific Instruments</i> , 2013, 84, 114102.	0.6	6
21	Chemoenzymatic Synthesis of Sialosides and Their Applications. <i>ACS Symposium Series</i> , 2008, , 96-122.	0.5	1
22	Titelbild: High-Throughput <i>In</i> â€... <i>Vitro</i> Glycoside Hydrolase (HIGH) Screening for Enzyme Discovery (<i>Angew. Chem.</i> 47/2011). <i>Angewandte Chemie</i> , 2011, 123, 11205-11205.	1.6	0
23	Cover Picture: Highâ€Throughput <i>In</i> â€... <i>Vitro</i> Glycoside Hydrolase (HIGH) Screening for Enzyme Discovery (<i>Angew. Chem. Int. Ed.</i> 47/2011). <i>Angewandte Chemie - International Edition</i> , 2011, 50, 11013-11013.	7.2	0