Christian Heiss

List of Publications by Year
in descending order

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52	2,349	172207	223531
papers	citations	29 h-index	46 g-index

56	56	56	3647
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	An engineered eukaryotic protein glycosylation pathway in Escherichia coli. Nature Chemical Biology, 2012, 8, 434-436.	3.9	232
2	Candida albicans biofilmâ€“induced vesicles confer drug resistance through matrix biogenesis. PLoS Biology, 2018, 16, e2006872.	2.6	173
3	Salmonella Produces an O-Antigen Capsule Regulated by AgfD and Important for Environmental Persistence. Journal of Bacteriology, 2006, 188, 7722-7730.	1.0	158
4	Outer membrane vesicles displaying engineered glycotopes elicit protective antibodies. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E3609-18.	3.3	112
5	The structure of Cryptococcus neoformans galactoxylomannan contains Î²-d-glucuronic acid. Carbohydrate Research, 2009, 344, 915-920.	1.1	107
6	Glycomic and glycoproteomic analysis of glycoproteinsâ€”a tutorial. Analytical and Bioanalytical Chemistry, 2017, 409, 4483-4505.	1.9	102
7	Phosphate Incorporation during Glycogen Synthesis and Lafora Disease. Cell Metabolism, 2011, 13, 274-282.	7.2	101
8	Activation of iNKT cells by a distinct constituent of the endogenous glucosylceramide fraction. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 13433-13438.	3.3	83
9	<scp>L</scp>isteria monocytogenes exopolysaccharide: origin, structure, biosynthetic machinery and câ€diâ€<scp>GMP</scp>â€dependent regulation. Molecular Microbiology, 2015, 96, 728-743.	1.2	80
10	Mutation of Cysteine-295 to Alanine in Secondary Alcohol Dehydrogenase from Thermoanaerobacter ethanolicus Affects the Enantioselectivity and Substrate Specificity of Ketone Reductions. Bioorganic and Medicinal Chemistry, 2001, 9, 1659-1666.	1.4	65
11	Glycosylation of SARS-CoV-2: structural and functional insights. Analytical and Bioanalytical Chemistry, 2021, 413, 7179-7193.	1.9	56
12	Heparan sulfate deficiency disrupts developmental angiogenesis and causes congenital diaphragmatic hernia. Journal of Clinical Investigation, 2014, 124, 209-221.	3.9	53
13	A thermodynamic investigation of the cellulose allomorphs: Cellulose(am), cellulose IÎ²(cr), cellulose II(cr), and cellulose III(cr). Journal of Chemical Thermodynamics, 2015, 81, 184-226.	1.0	50
14	Immunization with Outer Membrane Vesicles Displaying Designer Glycotopes Yields Class-Switched, Glycan-Specific Antibodies. Cell Chemical Biology, 2016, 23, 655-665.	2.5	48
15	Development of capsular polysaccharide-based glycoconjugates for immunization against melioidosis and glanders. Frontiers in Cellular and Infection Microbiology, 2012, 2, 108.	1.8	46
16	Isolation, Characterization, and Quantification of Steroidal Saponins in Switchgrass (Panicum) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	2.4	44
17	Characterization of the Kingella kingae Polysaccharide Capsule and Exopolysaccharide. PLoS ONE, 2013, 8, e75409.	1.1	41
18	Glycogen Phosphomonoester Distribution in Mouse Models of the Progressive Myoclonic Epilepsy, Lafora Disease. Journal of Biological Chemistry, 2015, 290, 841-850.	1.6	40

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19	Tool for Rapid Analysis of Glycopeptide by Permethylation via One-Pot Site Mapping and Glycan Analysis. Analytical Chemistry, 2017, 89, 10734-10743.	3.2	40
20	Exploiting enzyme specificities in digestions of chondroitin sulfates A and C: Production of well-defined hexasaccharides. Glycobiology, 2012, 22, 826-838.	1.3	38
21	The Stereospecificity of Secondary Alcohol Dehydrogenase from Thermoanaerobacter ethanolicus Is Partially Determined by Active Site Water. Journal of the American Chemical Society, 2001, 123, 345-346.	6.6	37
22	Structural characterization of the immunostimulatory exopolysaccharide produced by Leuconostoc mesenteroides strain NTM048. Carbohydrate Research, 2017, 448, 95-102.	1.1	37
23	Mass Spectrometric Quantification of N-Linked Glycans by Reference to Exogenous Standards. Journal of Proteome Research, 2016, 15, 2969-2980.	1.8	36
24	Comprehensive Monosaccharide Composition Analysis of Insoluble Polysaccharides by Permethylation To Produce Methyl Alditol Derivatives for Gas Chromatography/Mass Spectrometry. Analytical Chemistry, 2019, 91, 13787-13793.	3.2	34
25	Structure of a capsular polysaccharide isolated from Salmonella enteritidis. Carbohydrate Research, 2006, 341, 2388-2397.	1.1	33
26	Unusual Galactofuranose Modification of a Capsule Polysaccharide in the Pathogenic Yeast Cryptococcus neoformans. Journal of Biological Chemistry, 2013, 288, 10994-11003.	1.6	32
27	Structures of Exopolysaccharides Involved in Receptor-mediated Perception of Mesorhizobium loti by Lotus japonicus. Journal of Biological Chemistry, 2016, 291, 20946-20961.	1.6	32
28	Structural analysis of capsular polysaccharides expressed by Burkholderia mallei and Burkholderia pseudomallei. Carbohydrate Research, 2012, 349, 90-94.	1.1	31
29	Revised structures for the predominant O-polysaccharides expressed by Burkholderia pseudomallei and Burkholderia mallei. Carbohydrate Research, 2013, 381, 6-11.	1.1	31
30	Colony Morphology Variation of Burkholderia pseudomallei Is Associated with Antigenic Variation and O-Polysaccharide Modification. Infection and Immunity, 2015, 83, 2127-2138.	1.0	28
31	Burkholderia thailandensis oacA Mutants Facilitate the Expression of Burkholderia mallei -Like O Polysaccharides. Infection and Immunity, 2011, 79, 961-969.	1.0	27
32	Listeria monocytogenes wall teichoic acid decoration in virulence and cellâ€toâ€cell spread. Molecular Microbiology, 2016, 101, 714-730.	1.2	26
33	High-Throughput Automated Micro-permethylation for Glycan Structure Analysis. Analytical Chemistry, 2019, 91, 1237-1240.	3.2	23
34	Development of novel O-polysaccharide based glycoconjugates for immunization against glanders. Frontiers in Cellular and Infection Microbiology, 2012, 2, 148.	1.8	21
35	Pbx Proteins in Cryptococcus neoformans Cell Wall Remodeling and Capsule Assembly. Eukaryotic Cell, 2014, 13, 560-571.	3.4	20
36	Kingella kingae Expresses Four Structurally Distinct Polysaccharide Capsules That Differ in Their Correlation with Invasive Disease. PLoS Pathogens, 2016, 12, e1005944.	2.1	19

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37	Sodium hydroxide permethylation of heparin disaccharides. Rapid Communications in Mass Spectrometry, 2011, 25, 774-778.	0.7	17
38	Differential effects of bromination on substrates and inhibitors of kynureninase from Pseudomonas fluorescens. Organic and Biomolecular Chemistry, 2003, 1, 288-295.	1.5	16
39	Structural elucidation and immuno-stimulatory activity of a novel polysaccharide containing glucuronic acid from the fungus Echinodontium tinctorium. Carbohydrate Polymers, 2021, 258, 117700.	5.1	16
40	Analyzing the Modification of the Shewanella oneidensis MR-1 Flagellar Filament. PLoS ONE, 2013, 8, e73444.	1.1	15
41	The C-terminal fragment of axon guidance molecule Slit3 binds heparin and neutralizes heparin's anticoagulant activity. Glycobiology, 2012, 22, 1183-1192.	1.3	14
42	Evaluating the Utility of Permethylated Polysaccharide Solution NMR Data for Characterization of Insoluble Plant Cell Wall Polysaccharides. Analytical Chemistry, 2020, 92, 13221-13228.	3.2	14
43	Detailed structural analysis of the O-polysaccharide expressed by Burkholderia thailandensis E264. Carbohydrate Research, 2012, 363, 23-28.	1.1	12
44	Simplifying Glycan Profiling through a High-Throughput Micropermethylation Strategy. SLAS Technology, 2020, 25, 367-379.	1.0	12
45	Structural elucidation of an Â-1,2-mannosidase resistant oligosaccharide produced in Pichia pastoris. Glycobiology, 2011, 21, 1606-1615.	1.3	11
46	Formation of ethyl Î²-xylopyranoside during simultaneous saccharification and co-fermentation of paper sludge. Enzyme and Microbial Technology, 2009, 44, 196-202.	1.6	10
47	Polysaccharide associated protein (PSAP) from the green microalga Botryococcus braunii is a unique extracellular matrix hydroxyproline-rich glycoprotein. Algal Research, 2018, 29, 92-103.	2.4	10
48	Glucuronidation of Methylated Quercetin Derivatives: Chemical and Biochemical Approaches. Journal of Agricultural and Food Chemistry, 2020, 68, 14790-14807.	2.4	9
49	Structural characterization of polysaccharides expressed by Burkholderia oklahomensis E0147. Carbohydrate Research, 2014, 386, 68-72.	1.1	7
50	Structure of the polysaccharide sheath from the B race of the green microalga Botryococcus braunii. Algal Research, 2021, 55, 102252.	2.4	7
51	Novel structural features of the immunocompetent ceramide phospho-inositol glycan core from Trichomonas vaginalis. Carbohydrate Research, 2016, 419, 51-59.	1.1	6
52	Examining the interactions of Galahadâ„¢ compound with viruses to develop a novel inactivated influenza A virus vaccine. Heliyon, 2022, 8, e09887.	1.4	0