

# Christian Heiss

## List of Publications by Year in descending order

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Version: 2024-02-01

52  
papers

2,349  
citations

172207

29  
h-index

223531

46  
g-index

56  
all docs

56  
docs citations

56  
times ranked

3647  
citing authors

#	ARTICLE	IF	CITATIONS
1	Examining the interactions of Galahadâ„¢ compound with viruses to develop a novel inactivated influenza A virus vaccine. <i>Heliyon</i> , 2022, 8, e09887.	1.4	0
2	Structural elucidation and immuno-stimulatory activity of a novel polysaccharide containing glucuronic acid from the fungus <i>Echinodontium tinctorium</i> . <i>Carbohydrate Polymers</i> , 2021, 258, 117700.	5.1	16
3	Structure of the polysaccharide sheath from the B race of the green microalga <i>Botryococcus braunii</i> . <i>Algal Research</i> , 2021, 55, 102252.	2.4	7
4	Glycosylation of SARS-CoV-2: structural and functional insights. <i>Analytical and Bioanalytical Chemistry</i> , 2021, 413, 7179-7193.	1.9	56
5	Evaluating the Utility of Permethylated Polysaccharide Solution NMR Data for Characterization of Insoluble Plant Cell Wall Polysaccharides. <i>Analytical Chemistry</i> , 2020, 92, 13221-13228.	3.2	14
6	Glucuronidation of Methylated Quercetin Derivatives: Chemical and Biochemical Approaches. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 14790-14807.	2.4	9
7	Simplifying Glycan Profiling through a High-Throughput Micropermethylation Strategy. <i>SLAS Technology</i> , 2020, 25, 367-379.	1.0	12
8	Comprehensive Monosaccharide Composition Analysis of Insoluble Polysaccharides by Permethylation To Produce Methyl Alditol Derivatives for Gas Chromatography/Mass Spectrometry. <i>Analytical Chemistry</i> , 2019, 91, 13787-13793.	3.2	34
9	High-Throughput Automated Micro-permethylation for Glycan Structure Analysis. <i>Analytical Chemistry</i> , 2019, 91, 1237-1240.	3.2	23
10	Polysaccharide associated protein (PSAP) from the green microalga <i>Botryococcus braunii</i> is a unique extracellular matrix hydroxyproline-rich glycoprotein. <i>Algal Research</i> , 2018, 29, 92-103.	2.4	10
11	<i>Candida albicans</i> biofilmâ€“induced vesicles confer drug resistance through matrix biogenesis. <i>PLoS Biology</i> , 2018, 16, e2006872.	2.6	173
12	Structural characterization of the immunostimulatory exopolysaccharide produced by <i>Leuconostoc mesenteroides</i> strain NTM048. <i>Carbohydrate Research</i> , 2017, 448, 95-102.	1.1	37
13	Glycomic and glycoproteomic analysis of glycoproteinsâ€”a tutorial. <i>Analytical and Bioanalytical Chemistry</i> , 2017, 409, 4483-4505.	1.9	102
14	Tool for Rapid Analysis of Glycopeptide by Permethylation via One-Pot Site Mapping and Glycan Analysis. <i>Analytical Chemistry</i> , 2017, 89, 10734-10743.	3.2	40
15	<i>Kingella kingae</i> Expresses Four Structurally Distinct Polysaccharide Capsules That Differ in Their Correlation with Invasive Disease. <i>PLoS Pathogens</i> , 2016, 12, e1005944.	2.1	19
16	Novel structural features of the immunocompetent ceramide phospho-inositol glycan core from <i>Trichomonas vaginalis</i> . <i>Carbohydrate Research</i> , 2016, 419, 51-59.	1.1	6
17	Structures of Exopolysaccharides Involved in Receptor-mediated Perception of <i>Mesorhizobium loti</i> by <i>Lotus japonicus</i> . <i>Journal of Biological Chemistry</i> , 2016, 291, 20946-20961.	1.6	32
18	Mass Spectrometric Quantification of N-Linked Glycans by Reference to Exogenous Standards. <i>Journal of Proteome Research</i> , 2016, 15, 2969-2980.	1.8	36

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19	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
20	Immunization with Outer Membrane Vesicles Displaying Designer Glycotopes Yields Class-Switched, Glycan-Specific Antibodies. Cell Chemical Biology, 2016, 23, 655-665.	2.5	48
21	<i>Listeria monocytogenes</i> wall teichoic acid decoration in virulence and cell-to-cell spread. Molecular Microbiology, 2016, 101, 714-730.	1.2	26
22	<i>Listeria monocytogenes</i> exopolysaccharide: origin, structure, biosynthetic machinery and GMP-dependent regulation. Molecular Microbiology, 2015, 96, 728-743.	1.2	80
23	Glycogen Phosphomonoester Distribution in Mouse Models of the Progressive Myoclonic Epilepsy, Lafora Disease. Journal of Biological Chemistry, 2015, 290, 841-850.	1.6	40
24	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
25	A thermodynamic investigation of the cellulose allomorphs: Cellulose(am), cellulose II <sup>2</sup> (cr), cellulose II(cr), and cellulose III(cr). Journal of Chemical Thermodynamics, 2015, 81, 184-226.	1.0	50
26	Pbx Proteins in Cryptococcus neoformans Cell Wall Remodeling and Capsule Assembly. Eukaryotic Cell, 2014, 13, 560-571.	3.4	20
27	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
28	Structural characterization of polysaccharides expressed by Burkholderia oklahomensis E0147. Carbohydrate Research, 2014, 386, 68-72.	1.1	7
29	Heparan sulfate deficiency disrupts developmental angiogenesis and causes congenital diaphragmatic hernia. Journal of Clinical Investigation, 2014, 124, 209-221.	3.9	53
30	Revised structures for the predominant O-polysaccharides expressed by Burkholderia pseudomallei and Burkholderia mallei. Carbohydrate Research, 2013, 381, 6-11.	1.1	31
31	Unusual Galactofuranose Modification of a Capsule Polysaccharide in the Pathogenic Yeast Cryptococcus neoformans. Journal of Biological Chemistry, 2013, 288, 10994-11003.	1.6	32
32	Analyzing the Modification of the Shewanella oneidensis MR-1 Flagellar Filament. PLoS ONE, 2013, 8, e73444.	1.1	15
33	Characterization of the Kingella kingae Polysaccharide Capsule and Exopolysaccharide. PLoS ONE, 2013, 8, e75409.	1.1	41
34	Exploiting enzyme specificities in digestions of chondroitin sulfates A and C: Production of well-defined hexasaccharides. Glycobiology, 2012, 22, 826-838.	1.3	38
35	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
36	An engineered eukaryotic protein glycosylation pathway in Escherichia coli. Nature Chemical Biology, 2012, 8, 434-436.	3.9	232

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37	Detailed structural analysis of the O-polysaccharide expressed by <i>Burkholderia thailandensis</i> E264. <i>Carbohydrate Research</i> , 2012, 363, 23-28.	1.1	12
38	Development of capsular polysaccharide-based glycoconjugates for immunization against melioidosis and glanders. <i>Frontiers in Cellular and Infection Microbiology</i> , 2012, 2, 108.	1.8	46
39	Development of novel O-polysaccharide based glycoconjugates for immunization against glanders. <i>Frontiers in Cellular and Infection Microbiology</i> , 2012, 2, 148.	1.8	21
40	Structural analysis of capsular polysaccharides expressed by <i>Burkholderia mallei</i> and <i>Burkholderia pseudomallei</i> . <i>Carbohydrate Research</i> , 2012, 349, 90-94.	1.1	31
41	Structural elucidation of an $\alpha$ -1,2-mannosidase resistant oligosaccharide produced in <i>Pichia pastoris</i> . <i>Glycobiology</i> , 2011, 21, 1606-1615.	1.3	11
42	Phosphate Incorporation during Glycogen Synthesis and Lafora Disease. <i>Cell Metabolism</i> , 2011, 13, 274-282.	7.2	101
43	Sodium hydroxide permethylation of heparin disaccharides. <i>Rapid Communications in Mass Spectrometry</i> , 2011, 25, 774-778.	0.7	17
44	<i>Burkholderia thailandensis</i> oacA Mutants Facilitate the Expression of <i>Burkholderia mallei</i> -Like O Polysaccharides. <i>Infection and Immunity</i> , 2011, 79, 961-969.	1.0	27
45	Formation of ethyl $\beta$ -xylopyranoside during simultaneous saccharification and co-fermentation of paper sludge. <i>Enzyme and Microbial Technology</i> , 2009, 44, 196-202.	1.6	10
46	The structure of <i>Cryptococcus neoformans</i> galactoxylomannan contains $\beta$ -D-glucuronic acid. <i>Carbohydrate Research</i> , 2009, 344, 915-920.	1.1	107
47	Isolation, Characterization, and Quantification of Steroidal Saponins in Switchgrass ( <i>Panicum</i> ) Tj ETQq1 1 0.784314 rgBT /Overl	2.4	44
48	Structure of a capsular polysaccharide isolated from <i>Salmonella enteritidis</i> . <i>Carbohydrate Research</i> , 2006, 341, 2388-2397.	1.1	33
49	<i>Salmonella</i> Produces an O-Antigen Capsule Regulated by AgfD and Important for Environmental Persistence. <i>Journal of Bacteriology</i> , 2006, 188, 7722-7730.	1.0	158
50	Differential effects of bromination on substrates and inhibitors of kynureninase from <i>Pseudomonas fluorescens</i> . <i>Organic and Biomolecular Chemistry</i> , 2003, 1, 288-295.	1.5	16
51	The Stereospecificity of Secondary Alcohol Dehydrogenase from <i>Thermoanaerobacter ethanolicus</i> Is Partially Determined by Active Site Water. <i>Journal of the American Chemical Society</i> , 2001, 123, 345-346.	6.6	37
52	Mutation of Cysteine-295 to Alanine in Secondary Alcohol Dehydrogenase from <i>Thermoanaerobacter ethanolicus</i> Affects the Enantioselectivity and Substrate Specificity of Ketone Reductions. <i>Bioorganic and Medicinal Chemistry</i> , 2001, 9, 1659-1666.	1.4	65