

# Thomas Haselhorst

## List of Publications by Year in descending order

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62  
papers

1,976  
citations

236925

25  
h-index

276875

41  
g-index

68  
all docs

68  
docs citations

68  
times ranked

2893  
citing authors

#	ARTICLE	IF	CITATIONS
1	Sialic acid dependence in rotavirus host cell invasion. <i>Nature Chemical Biology</i> , 2009, 5, 91-93.	8.0	149
2	Molecular Recognition of Sialyl Lewisx and Related Saccharides by Two Lectins. <i>Journal of the American Chemical Society</i> , 2001, 123, 10705-10714.	13.7	106
3	Ferrets exclusively synthesize Neu5Ac and express naturally humanized influenza A virus receptors. <i>Nature Communications</i> , 2014, 5, 5750.	12.8	94
4	Structure and function of nucleotide sugar transporters: Current progress. <i>Computational and Structural Biotechnology Journal</i> , 2014, 10, 23-32.	4.1	91
5	Carbocycles Related to Oseltamivir as Influenza Virus Group-1-Specific Neuraminidase Inhibitors. Binding to N1 Enzymes in the Context of Virus-like Particles. <i>Journal of Medicinal Chemistry</i> , 2010, 53, 7377-7391.	6.4	89
6	Revisiting the role of histo-blood group antigens in rotavirus host-cell invasion. <i>Nature Communications</i> , 2015, 6, 5907.	12.8	75
7	Liposomal doxorubicin as targeted delivery platform: Current trends in surface functionalization. <i>International Journal of Pharmaceutics</i> , 2021, 593, 120117.	5.2	70
8	Unravelling the Role of O-glycans in Influenza A Virus Infection. <i>Scientific Reports</i> , 2018, 8, 16382.	3.3	66
9	STD NMR spectroscopy and molecular modeling investigation of the binding of N-acetylneuraminic acid derivatives to rhesus rotavirus VP8* core. <i>Glycobiology</i> , 2007, 17, 68-81.	2.5	58
10	CD52 glycan binds the proinflammatory B box of HMGB1 to engage the Siglec-10 receptor and suppress human T cell function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 7783-7788.	7.1	55
11	Molecular Cloning of the <i>Leishmania major</i> UDP-glucose Pyrophosphorylase, Functional Characterization, and Ligand Binding Analyses Using NMR Spectroscopy*. <i>Journal of Biological Chemistry</i> , 2006, 281, 16314-16322.	3.4	54
12	Nucleotide Sugar Transporter SLC35 Family Structure and Function. <i>Computational and Structural Biotechnology Journal</i> , 2019, 17, 1123-1134.	4.1	53
13	<i>Leishmania</i> UDP-sugar Pyrophosphorylase. <i>Journal of Biological Chemistry</i> , 2010, 285, 878-887.	3.4	52
14	Avian Influenza H5N1-Containing Virus-Like Particles (VLPs): Host-Cell Receptor Specificity by STD NMR Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 1910-1912.	13.8	51
15	Production of active human glucocerebrosidase in seeds of <i>Arabidopsis thaliana</i> complex-glycan-deficient (cgl) plants. <i>Glycobiology</i> , 2012, 22, 492-503.	2.5	48
16	NMR Experiments Reveal Distinct Antibody-Bound Conformations of a Synthetic Disaccharide Representing a General Structural Element of Bacterial Lipopolysaccharide Epitopes. <i>Biochemistry</i> , 1999, 38, 6449-6459.	2.5	47
17	Relative Roles of GM1 Ganglioside, N-Acetylneuraminic Acids, and $\alpha_2\beta_1$ Integrin in Mediating Rotavirus Infection. <i>Journal of Virology</i> , 2014, 88, 4558-4571.	3.4	46
18	All major cholesterol-dependent cytolysins use glycans as cellular receptors. <i>Science Advances</i> , 2020, 6, eaaz4926.	10.3	46

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19	Modified Sialosides Enhance Binding to Siglec (CD22): Towards Potent Siglec Inhibitors for Immunoglycotherapy. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 3616-3620.	13.8	37
20	Recognition of the GM3 Ganglioside Glycan by Rhesus Rotavirus Particles. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 1055-1058.	13.8	36
21	Saturation Transfer Difference NMR Spectroscopy as a Technique to Investigate Protein-Carbohydrate Interactions in Solution. , 2009, 534, 375-396.		35
22	Structure-guided discovery of potent and dual-acting human parainfluenza virus haemagglutinin neuraminidase inhibitors. <i>Nature Communications</i> , 2014, 5, 5268.	12.8	32
23	Functional and structural characterization of a heparanase. <i>Nature Chemical Biology</i> , 2015, 11, 955-957.	8.0	31
24	A Secondary Sialic Acid Binding Site on Influenza Virus Neuraminidase: Fact or Fiction?. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 2221-2224.	13.8	30
25	Carbohydrate Recognition Specificity of Trans-sialidase Lectin Domain from <i>Trypanosoma congolense</i> . <i>PLoS Neglected Tropical Diseases</i> , 2015, 9, e0004120.	3.0	30
26	NMR spectroscopic and molecular modeling investigations of the trans-sialidase from <i>Trypanosoma cruzi</i> . <i>Glycobiology</i> , 2004, 14, 895-907.	2.5	27
27	Proteolytic Release of the Intramolecular Chaperone Domain Confers Processivity to Endosialidase F. <i>Journal of Biological Chemistry</i> , 2009, 284, 9465-9474.	3.4	27
28	Production of $\beta$ -L-iduronidase in maize for the potential treatment of a human lysosomal storage disease. <i>Nature Communications</i> , 2012, 3, 1062.	12.8	25
29	Influence of an ER-retention signal on the N-glycosylation of recombinant human $\beta$ -L-iduronidase generated in seeds of <i>Arabidopsis</i> . <i>Plant Molecular Biology</i> , 2012, 79, 157-169.	3.9	25
30	Biochemical and Biophysical Characterization of the Sialyl-/Hexosyltransferase Synthesizing the Meningococcal Serogroup W135 Heteropolysaccharide Capsule. <i>Journal of Biological Chemistry</i> , 2013, 288, 11718-11730.	3.4	24
31	Direct detection of ligand binding to Sepharose-immobilised protein using saturation transfer double difference (STDD) NMR spectroscopy. <i>Biochemical and Biophysical Research Communications</i> , 2007, 359, 866-870.	2.1	23
32	Conformational analysis of a Chlamydia-specific disaccharide $\alpha$ -Kdo-(2 $\rightarrow$ 8)- $\alpha$ -Kdo-(2 $\rightarrow$ O)-allyl in aqueous solution and bound to a monoclonal antibody: observation of intermolecular transfer NOEs. <i>Journal of Biomolecular NMR</i> , 1998, 12, 123-133.	2.8	20
33	Investigation of the binding and cleavage characteristics of $\alpha$ 1 neuraminidases from avian, seasonal, and pandemic influenza viruses using saturation transfer difference nuclear magnetic resonance. <i>Influenza and Other Respiratory Viruses</i> , 2014, 8, 235-242.	3.4	20
34	Exploring Human Parainfluenza Virus Type-1 Hemagglutinin Neuraminidase as a Target for Inhibitor Discovery. <i>Journal of Medicinal Chemistry</i> , 2014, 57, 7613-7623.	6.4	20
35	Saturation transfer difference (STD) $^1\text{H-NMR}$ experiments and in silico docking experiments to probe the binding of N-acetylneuraminic acid and derivatives to <i>Vibrio cholerae</i> sialidase. <i>Proteins: Structure, Function and Bioinformatics</i> , 2004, 56, 346-353.	2.6	19
36	Characterization and downstream mannose phosphorylation of human recombinant $\beta$ -L-iduronidase produced in <i>Arabidopsis thaliana</i> complex glycan deficient ( <i>cg1</i> ) seeds. <i>Plant Biotechnology Journal</i> , 2013, 11, 1034-1043.	8.3	18

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37	Repurposed Drugs That Block the Gonococcus-Complement Receptor 3 Interaction Can Prevent and Cure Gonococcal Infection of Primary Human Cervical Epithelial Cells. <i>MBio</i> , 2020, 11, .	4.1	18
38	Probing a CMP-Kdn synthetase by 1H, 31P, and STD NMR spectroscopy. <i>Biochemical and Biophysical Research Communications</i> , 2005, 327, 565-570.	2.1	16
39	Structural characterisation of high affinity Siglec-2 (CD22) ligands in complex with whole Burkitt's lymphoma (BL) Daudi cells by NMR spectroscopy. <i>Scientific Reports</i> , 2016, 6, 36012.	3.3	16
40	Enhancing Vaccine Efficacy by Engineering a Complex Synthetic Peptide To Become a Super Immunogen. <i>Journal of Immunology</i> , 2017, 199, 2794-2802.	0.8	15
41	The dCache Chemoreceptor TlpA of <i>Helicobacter pylori</i> Binds Multiple Attractant and Antagonistic Ligands via Distinct Sites. <i>MBio</i> , 2021, 12, e0181921.	4.1	14
42	A C-Terminal Phosphatase Module Conserved in Vertebrate CMP-Sialic Acid Synthetases Provides a Tetramerization Interface for the Physiologically Active Enzyme. <i>Journal of Molecular Biology</i> , 2009, 393, 83-97.	4.2	13
43	Glycobiology of Human Fungal Pathogens: New Avenues for Drug Development. <i>Cells</i> , 2019, 8, 1348.	4.1	13
44	Conformational Modulation of Iduronic Acid-Containing Sulfated Glycosaminoglycans by a Polynuclear Platinum Compound and Implications for Development of Antimetastatic Platinum Drugs. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 3283-3289.	13.8	12
45	Host glycoalyx captures HIV proximal to the cell surface via oligomannose-GlcNAc glycan-glycan interactions to support viral entry. <i>Cell Reports</i> , 2022, 38, 110296.	6.4	12
46	Endosialidase NF Appears To Bind PolySia DP5 in a Helical Conformation. <i>ChemBioChem</i> , 2006, 7, 1875-1877.	2.6	10
47	Detection of Ligand Binding to Nucleotide Sugar Transporters by STD NMR Spectroscopy. <i>ChemBioChem</i> , 2008, 9, 2784-2786.	2.6	10
48	Characterisation of CMP-Sialic Acid Transporter Substrate Recognition. <i>ChemBioChem</i> , 2013, 14, 1936-1942.	2.6	10
49	Influenza C virus and bovine coronavirus esterase reveal a similar catalytic mechanism: new insights for drug discovery. <i>Glycoconjugate Journal</i> , 2008, 25, 393-399.	2.7	8
50	Self-derived structure-disrupting peptides targeting methionine aminopeptidase in pathogenic bacteria: a new strategy to generate antimicrobial peptides. <i>FASEB Journal</i> , 2019, 33, 2095-2104.	0.5	7
51	The role of sialic acid-binding immunoglobulin-like-lectin-1 (siglec-1) in immunology and infectious disease. <i>International Reviews of Immunology</i> , 2023, 42, 113-138.	3.3	7
52	<i>Neisseria meningitidis</i> Serogroup B Polysialyltransferase: Insights into Substrate Binding. <i>ChemBioChem</i> , 2010, 11, 170-174.	2.6	6
53	Ucl fimbriae regulation and glycan receptor specificity contribute to gut colonisation by extra-intestinal pathogenic <i>Escherichia coli</i> . <i>PLoS Pathogens</i> , 2022, 18, e1010582.	4.7	6
54	Defining a Substrate-Binding Model of a Polysialyltransferase. <i>ChemBioChem</i> , 2013, 14, 1949-1953.	2.6	5

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55	Conformational Modulation of Iduronic Acid-Containing Sulfated Glycosaminoglycans by a Polynuclear Platinum Compound and Implications for Development of Antimetastatic Platinum Drugs. <i>Angewandte Chemie</i> , 2021, 133, 3320-3326.	2.0	5
56	Deuterated Disaccharides for the Investigation of Protein-Carbohydrate Interactions-Application of Bioaffinity-and STD-NMR. <i>Journal of Carbohydrate Chemistry</i> , 2000, 19, 769-782.	1.1	4
57	A <sup>1</sup> H STD NMR spectroscopic investigation of sialyl nucleoside mimetics as probes of CMP-Kdn synthetase. <i>Glycoconjugate Journal</i> , 2006, 23, 371-375.	2.7	4
58	Direct Investigation of the Aspergillus GDP-Mannose Transporter by STD NMR Spectroscopy. <i>ChemBioChem</i> , 2011, 12, 2421-2425.	2.6	4
59	Fluorescent Carbon Dots Functionalized with Self-Assembled Glycan Monolayers for Probing Interactions across the Glyco-Interactome. <i>ACS Applied Nano Materials</i> , 2020, 3, 7804-7817.	5.0	4
60	Cracking the Code for H5N1-Bird Flu and Beyond. <i>Current Drug Delivery</i> , 2009, 6, 343-346.	1.6	2
61	Rücktitelbild: Rhesus-Rotaviren erkennen Glykane des GM3-Gangliosids ( <i>Angew. Chem.</i> 5/2011). <i>Angewandte Chemie</i> , 2011, 123, 1232-1232.	2.0	0
62	Sialic Acid Derivatives, Analogues and Mimetics as Biological Probes and Inhibitors of Sialic Acid Recognizing Proteins. , 2011, , .		0