

Tom Wennekes

List of Publications by Year in descending order

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58
papers

3,045
citations

218677

26
h-index

161849

54
g-index

68
all docs

68
docs citations

68
times ranked

4195
citing authors

#	ARTICLE	IF	CITATIONS
1	Multivalent glycoconjugates as anti-pathogenic agents. <i>Chemical Society Reviews</i> , 2013, 42, 4709-4727.	38.1	464
2	Pharmacological Inhibition of Glucosylceramide Synthase Enhances Insulin Sensitivity. <i>Diabetes</i> , 2007, 56, 1341-1349.	0.6	280
3	Glycosphingolipids—Nature, Function, and Pharmacological Modulation. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 8848-8869.	13.8	245
4	Mechanism-Based Covalent Neuraminidase Inhibitors with Broad-Spectrum Influenza Antiviral Activity. <i>Science</i> , 2013, 340, 71-75.	12.6	175
5	Ten years of CAZypedia: a living encyclopedia of carbohydrate-active enzymes. <i>Glycobiology</i> , 2018, 28, 3-8.	2.5	175
6	Identification of the Non-lysosomal Glucosylceramidase as β -Glucosidase 2. <i>Journal of Biological Chemistry</i> , 2007, 282, 1305-1312.	3.4	156
7	Development of Adamantan-1-yl-methoxy-Functionalized 1-Deoxynojirimycin Derivatives as Selective Inhibitors of Glucosylceramide Metabolism in Man. <i>Journal of Organic Chemistry</i> , 2007, 72, 1088-1097.	3.2	124
8	Dual-Action Lipophilic Iminosugar Improves Glycemic Control in Obese Rodents by Reduction of Visceral Glycosphingolipids and Buffering of Carbohydrate Assimilation. <i>Journal of Medicinal Chemistry</i> , 2010, 53, 689-698.	6.4	90
9	Hydrolytic and Thermal Stability of Organic Monolayers on Various Inorganic Substrates. <i>Langmuir</i> , 2014, 30, 5829-5839.	3.5	86
10	N-Glycolylneuraminic Acid as a Receptor for Influenza A Viruses. <i>Cell Reports</i> , 2019, 27, 3284-3294.e6.	6.4	78
11	Structural and mechanistic insight into N-glycan processing by endo- β -mannosidase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 781-786.	7.1	74
12	A Protein-Based Pentavalent Inhibitor of the Cholera Toxin B Subunit. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 8323-8327.	13.8	57
13	The Effect of Lewis Acids on the Stereochemistry in the Ugi Three-Component Reaction with β -pyrroline. <i>European Journal of Organic Chemistry</i> , 2008, 2008, 3678-3688.	2.4	50
14	Picomolar inhibition of cholera toxin by a pentavalent ganglioside GM1os-calix[5]arene. <i>Organic and Biomolecular Chemistry</i> , 2013, 11, 4340-4349.	2.8	50
15	A Fluorescence Polarization Activity-Based Protein Profiling Assay in the Discovery of Potent, Selective Inhibitors for Human Nonlysosomal Glucosylceramidase. <i>Journal of the American Chemical Society</i> , 2017, 139, 14192-14197.	13.7	50
16	Getting a grip on glycans: A current overview of the metabolic oligosaccharide engineering toolbox. <i>Carbohydrate Research</i> , 2016, 435, 121-141.	2.3	48
17	Glycosphingolipids and Insulin Resistance. <i>Advances in Experimental Medicine and Biology</i> , 2011, 721, 99-119.	1.6	48
18	The cytosolic β -glucosidase GBA3 does not influence type 1 Gaucher disease manifestation. <i>Blood Cells, Molecules, and Diseases</i> , 2011, 46, 19-26.	1.4	45

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19	Synthesis and Evaluation of Lipophilic Aza- α -Glycosides as Inhibitors of Glucosylceramide Metabolism. <i>European Journal of Organic Chemistry</i> , 2010, 2010, 1258-1283.	2.4	43
20	Identification and Development of Biphenyl Substituted Iminosugars as Improved Dual Glucosylceramide Synthase/Neutral Glucosylceramidase Inhibitors. <i>Journal of Medicinal Chemistry</i> , 2014, 57, 9096-9104.	6.4	43
21	Large-Scale Synthesis of the Glucosylceramide Synthase Inhibitor <i>N</i> -[5-(Adamantan-1-yl-methoxy)-pentyl]-1-deoxynojirimycin. <i>Organic Process Research and Development</i> , 2008, 12, 414-423.	2.7	42
22	Stability of (Bio)Functionalized Porous Aluminum Oxide. <i>Langmuir</i> , 2014, 30, 1311-1320.	3.5	38
23	Synthesis and evaluation of dimeric lipophilic iminosugars as inhibitors of glucosylceramide metabolism. <i>Tetrahedron: Asymmetry</i> , 2009, 20, 836-846.	1.8	36
24	Clickable Poly(lactic Acids) by Fast Organocatalytic Ring-Opening Polymerization in Continuous Flow. <i>Macromolecules</i> , 2016, 49, 2054-2062.	4.8	35
25	Mechanism-Based Inhibitors of Glycosidases. <i>Advances in Carbohydrate Chemistry and Biochemistry</i> , 2014, 71, 297-338.	0.9	32
26	Ambient Surface Analysis of Organic Monolayers using Direct Analysis in Real Time Orbitrap Mass Spectrometry. <i>Analytical Chemistry</i> , 2014, 86, 2403-2411.	6.5	28
27	Transformation of Carbohydrate Derived 4-Azidopentanal Into Highly Functionalized Pyrrolidines Via a Tandem Staudinger/aza-Wittig/Ugi Multicomponent Reaction. <i>QSAR and Combinatorial Science</i> , 2006, 25, 491-503.	1.4	27
28	Nanomolar cholera toxin inhibitors based on symmetrical pentavalent ganglioside GM1os-sym-corannulenes. <i>Organic and Biomolecular Chemistry</i> , 2013, 11, 4333-4339.	2.8	27
29	The Development of an Aza- α -Glycoside Library Based on a Tandem Staudinger/Aza-Wittig/Ugi Three-Component Reaction. <i>European Journal of Organic Chemistry</i> , 2012, 2012, 6420-6454.	2.4	26
30	Versatile Scope of a Masked Aldehyde Nitron in 1,3-Dipolar Cycloadditions. <i>Organic Letters</i> , 2015, 17, 5550-5553.	4.6	26
31	Direct imaging of glycans in Arabidopsis roots via click labeling of metabolically incorporated azido-monosaccharides. <i>BMC Plant Biology</i> , 2016, 16, 220.	3.6	26
32	Electronic Effects versus Distortion Energies During Strain-Promoted Alkyne-Azide Cycloadditions: A Theoretical Tool to Predict Reaction Kinetics. <i>European Journal of Organic Chemistry</i> , 2013, 2013, 3712-3720.	2.4	24
33	N-Azidoacetylmannosamine-mediated chemical tagging of gangliosides. <i>Journal of Lipid Research</i> , 2007, 48, 1417-1421.	4.2	23
34	Assessment of Partially Deoxygenated Deoxynojirimycin Derivatives as Glucosylceramide Synthase Inhibitors. <i>ACS Medicinal Chemistry Letters</i> , 2011, 2, 519-522.	2.8	23
35	Synthesis of orthogonally protected 2-deoxystreptamine stereoisomers. <i>Tetrahedron</i> , 2004, 60, 2813-2822.	1.9	21
36	Outer membrane permeabilization by the membrane attack complex sensitizes Gram-negative bacteria to antimicrobial proteins in serum and phagocytes. <i>PLoS Pathogens</i> , 2021, 17, e1009227.	4.7	20

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37	From the freezer to the clinic. <i>EMBO Reports</i> , 2021, 22, e52162.	4.5	20
38	<scp> <i>Bacteroides fragilis</i> </scp> fucosidases facilitate growth and invasion of <i>Campylobacter jejuni</i> in the presence of mucins. <i>Cellular Microbiology</i> , 2020, 22, e13252.	2.1	19
39	Metabolic Labeling of Legionaminic Acid in Flagellin Glycosylation of <i>Campylobacter jejuni</i> Identifies Maf4 as a Putative Legionaminyl Transferase. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 24811-24816.	13.8	12
40	Exploring the Chemistry of Bicyclic Isoxazolidines for the Multicomponent Synthesis of Glycomimetic Building Blocks. <i>Journal of Organic Chemistry</i> , 2016, 81, 8826-8836.	3.2	11
41	Analysis of the Evolution of Pandemic Influenza A(H1N1) Virus Neuraminidase Reveals Entanglement of Different Phenotypic Characteristics. <i>MBio</i> , 2021, 12, .	4.1	11
42	Development of a 1,2-difluorofucoside activity-based probe for profiling GH29 fucosidases. <i>Organic and Biomolecular Chemistry</i> , 2021, 19, 2968-2977.	2.8	11
43	Synthesis and Evaluation of Hybrid Structures Composed of Two Glucosylceramide Synthase Inhibitors. <i>ChemMedChem</i> , 2015, 10, 2042-2062.	3.2	10
44	Versatile (Bio)Functionalization of Bromo-Terminated Phosphonate-Modified Porous Aluminum Oxide. <i>Langmuir</i> , 2015, 31, 5633-5644.	3.5	10
45	Sweet impersonators: Molecular mimicry of host glycans by bacteria. <i>Glycobiology</i> , 2022, 32, 11-22.	2.5	9
46	Detection of Bacterial Î±-L-Fucosidases with an Ortho-Quinone Methide-Based Probe and Mapping of the Probe-Protein Adducts. <i>Molecules</i> , 2022, 27, 1615.	3.8	9
47	Glycosylation of Cyclitols: Synthesis of Neamine-Type Aminoglycosides. <i>European Journal of Organic Chemistry</i> , 2004, 2004, 2404-2410.	2.4	8
48	Chemoenzymatic synthesis of biotin-appended analogues of gangliosides GM2, GM1, GD1a and GalNAc-GD1a for solid-phase applications and improved ELISA tests. <i>Organic and Biomolecular Chemistry</i> , 2011, 9, 5809.	2.8	8
49	Microwave-Assisted Formation of Organic Monolayers from 1-Alkenes on Silicon Carbide. <i>Langmuir</i> , 2014, 30, 10562-10565.	3.5	7
50	Facile functionalization of peptide nucleic acids (PNAs) for antisense and single nucleotide polymorphism detection. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 6710-6714.	2.8	6
51	A plant-based chemical genomics screen for the identification of flowering inducers. <i>Plant Methods</i> , 2017, 13, 78.	4.3	6
52	A Preparative Synthesis of Human Chitinase Fluorogenic Substrate (4-Deoxychitobiosyl)-methylumbelliferone. <i>European Journal of Organic Chemistry</i> , 2010, 2010, 2565-2570.	2.4	5
53	Clickable Mesoporous Silica via Functionalization with 1,3-Diols. <i>Advanced Materials Interfaces</i> , 2014, 1, 1300061.	3.7	4
54	Synthesis and evaluation of locostatin-based chemical probes towards PEBP-proteins. <i>Tetrahedron Letters</i> , 2016, 57, 2406-2409.	1.4	3

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55	Continuous-Flow Alcohol Protection and Deprotection Reactions Catalyzed by Silica-Supported Sulfonic Acid. <i>Journal of Flow Chemistry</i> , 2015, 5, 95-100.	1.9	3
56	Getting lucky in the lysosome. <i>Nature Chemical Biology</i> , 2010, 6, 881-883.	8.0	2
57	Innentitelbild: A Protein-Based Pentavalent Inhibitor of the Cholera Toxin B-Subunit (<i>Angew. Chem.</i>) Tj ETQq1 1 0.784314 rgBT /Overlaid	2.0	0
58	Metabolic Labeling of Legionaminic Acid in Flagellin Glycosylation of <i>Campylobacter jejuni</i> Identifies Maf4 as a Putative Legionaminyl Transferase. <i>Angewandte Chemie</i> , 2021, 133, 25015-25020.	2.0	0