Inka Brockhausen

List of Publications by Year
in descending order

92	3,598	172386 29	138417 58
papers	citations	h-index	g-index

92	92	92	2555
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Biosynthesis of the Pseudomonas aeruginosa common polysaccharide antigen by D-Rhamnosyltransferases WbpX and WbpY. Glycoconjugate Journal, 2022, 39, 393-411.	1.4	7
2	Mucin-Type O-Glycans: Biosynthesis and Functions. , 2021, , 233-252.		0
3	Mucins as anti-cancer targets: perspectives of the glycobiologist. Glycoconjugate Journal, 2021, 38, 459-474.	1.4	21
4	Role of Glycans on Key Cell Surface Receptors That Regulate Cell Proliferation and Cell Death. Cells, 2021, 10, 1252.	1.8	25
5	Biosynthesis of Bacterial Polysaccharides. , 2021, , 143-178.		1
6	Glycoconjugate journal special issue on: the glycobiology of Parkinsonâ€™s disease. Glycoconjugate Journal, 2021, , 1.	1.4	1
7	ThewclYgene ofEscherichia coliserotype O117 encodes an Î±1,4-glucosyltransferase with strict acceptor specificity but broad donor specificity. Glycobiology, 2020, 30, 9003-9014.	1.3	3
8	The expression and functional analysis of the sialyl-T antigen in prostate cancer. Glycoconjugate Journal, 2020, 37, 423-433.	1.4	18
9	Inhibition of bacterial growth and galactosyltransferase activity of WbwC by Î±, Ï‰-bis(3-alkyl-1H-imidazolium)alkane salts: Effect of varying carbon content. Bioorganic and Medicinal Chemistry, 2020, 28, 115494.	1.4	3
10	Synthesis of Phenoxyundecyl Diphosphate Disaccharides for Studies of the Biosynthesis of O Antigenic Polysaccharides in Enteric Bacteria. Methods in Molecular Biology, 2019, 1954, 161-174.	0.4	1
11	Enzymatic Synthesis of Repeating Unit Oligosaccharides of Escherichia coli O104. Methods in Molecular Biology, 2019, 1954, 187-202.	0.4	1
12	Glycosyltransferase-Coupled Assays for 4-Epimerase WbpP from Pseudomonas aeruginosa. Methods in Molecular Biology, 2019, 1954, 255-268.	0.4	1
13	Identification and biochemical characterization of WbwB, a novel UDP-Gal: Neu5Ac-R Î±1,4-galactosyltransferase from the intestinal pathogen Escherichia coli serotype O104. Glycoconjugate Journal, 2018, 35, 65-76.	1.4	8
14	Identification and characterization of the 4-epimerase AglW from the archaeon Methanococcus maripaludis. Glycoconjugate Journal, 2018, 35, 525-535.	1.4	3
15	Glycosylation pathways of human corneal and conjunctival epithelial cell mucins. Carbohydrate Research, 2018, 470, 50-56.	1.1	14
16	Functional Characterization of Enzymatic Steps Involved in Pyruvylation of Bacterial Secondary Cell Wall Polymer Fragments. Frontiers in Microbiology, 2018, 9, 1356.	1.5	16
17	Synthesis of P 1 -(11-phenoxyundecyl)-P 2 -(2-acetamido-2-deoxy-3- O -Î±- D -rhamnopyranosyl-Î±- D) Tj ETQq1 1 0.784314 rgBT /Overlock O-antigenic polysaccharides in Pseudomonas aeruginosa and Escherichia coli O104. Carbohydrate Research, 2017, 453-454, 19-25.	1.1	6
18	Human acetyl-CoA:glucosamine-6-phosphate N-acetyltransferase 1 has a relaxed donor specificity and transfers acyl groups up to four carbons in length. Biochemistry and Cell Biology, 2016, 94, 197-204.	0.9	8

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19	Role of Glycans in Cancer Cell Death: A Deadly Relationship. , 2016, , 163-193.		0
20	Biosynthesis of the Common Polysaccharide Antigen of Pseudomonas aeruginosa PAO1: Characterization and Role of GDP- <scp>d</scp> -Rhamnose:GlcNAc/GalNAc-Diphosphate-Lipid Î±1,3- <scp>d</scp> -Rhamnosyltransferase WbpZ. Journal of Bacteriology, 2015, 197, 2012-2019.	1.0	29
21	Identification and Biochemical Characterization of the Novel Î±2,3-Sialyltransferase WbwA from Pathogenic Escherichia coli Serotype O104. Journal of Bacteriology, 2015, 197, 3760-3768.	1.0	17
22	Crossroads between Bacterial and Mammalian Glycosyltransferases. Frontiers in Immunology, 2014, 5, 492.	2.2	53
23	Characterization of Two UDP-Gal:GalNAc-Diphosphate-Lipid Î²1,3-Galactosyltransferases WbwC from Escherichia coli Serotypes O104 and O5. Journal of Bacteriology, 2014, 196, 3122-3133.	1.0	28
24	Synthesis of a fluorescent acceptor substrate for glycosyltransferases involved in the assembly of O-antigens of enterohemorrhagic Escherichia coli O157 and O5. Carbohydrate Research, 2013, 366, 17-24.	1.1	9
25	A convenient synthesis of GDP-d-rhamnose: The donor substrate for d-rhamnosyltransferase WbpZ from Pseudomonas aeruginosa PAO1. Bioorganic and Medicinal Chemistry Letters, 2013, 23, 3491-3495.	1.0	15
26	Acceptor specificities and selective inhibition of recombinant human Gal- and GlcNAc-transferases that synthesize core structures 1, 2, 3 and 4 of O-glycans. Biochimica Et Biophysica Acta - General Subjects, 2013, 1830, 4274-4281.	1.1	14
27	Selective inhibition of glycosyltransferases by bivalent imidazolium salts. Bioorganic and Medicinal Chemistry, 2013, 21, 1305-1311.	1.4	27
28	Functional Identification of Bacterial Glucosyltransferase WbdN. Methods in Molecular Biology, 2013, 1022, 199-214.	0.4	3
29	Decreased salivary sulphotransferase activity correlated with inflammation and autoimmunity parameters in Sjogren's syndrome patients. Rheumatology, 2012, 51, 482-490.	0.9	16
30	Biochemical characterization of WbdN, a Î²1,3-glucosyltransferase involved in O-antigen synthesis in enterohemorrhagic Escherichia coli O157. Glycobiology, 2012, 22, 1092-1102.	1.3	28
31	Glycosylation potential of human prostate cancer cell lines. Glycoconjugate Journal, 2012, 29, 525-537.	1.4	26
32	Structures and biosynthesis of the N- and O-glycans of recombinant human oviduct-specific glycoprotein expressed in human embryonic kidney cells. Carbohydrate Research, 2012, 358, 47-55.	1.1	10
33	Biochemical Characterization of UDP-Gal:GlcNAc-Pyrophosphate-Lipid Î²-1,4-Galactosyltransferase WfeD, a New Enzyme fromShigella boydiiType 14 That Catalyzes the Second Step in O-Antigen Repeating-Unit Synthesis. Journal of Bacteriology, 2011, 193, 449-459.	1.0	26
34	Specificity of Î²1,4-galactosyltransferase inhibition by 2-naphthyl 2-butanamido-2-deoxy-1-thio-Î²-D-glucopyranoside. Glycoconjugate Journal, 2010, 27, 673-684.	1.4	18
35	Synthesis of acceptor substrate analogs for the study of glycosyltransferases involved in the second step of the biosynthesis of O-antigen repeating units. Carbohydrate Research, 2010, 345, 586-597.	1.1	18
36	Biosynthesis of Complex Mucin-Type O-Glycans. , 2010, , 315-350.		6

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37	Over-expression of ST3Gal-I promotes mammary tumorigenesis. Glycobiology, 2010, 20, 1241-1250.	1.3	124
38	Site directed processing: Role of amino acid sequences and glycosylation of acceptor glycopeptides in the assembly of extended mucin type O-glycan core 2. Biochimica Et Biophysica Acta - General Subjects, 2009, 1790, 1244-1257.	1.1	28
39	Inhibition of Glycosyltransferase Activities as the Basis for Drug Development. , 2009, 534, 359-373.		8
40	Acceptor substrate specificity of UDP-Gal: GlcNAc-R Î²1,3-galactosyltransferase (WbbD) from Escherichia coli O7:K1. Glycoconjugate Journal, 2008, 25, 663-73.	1.4	13
41	A very simple synthesis of GlcNAc-Î±-pyrophosphoryl-decanol: A substrate for the assay of a bacterial galactosyltransferase. Bioorganic and Medicinal Chemistry Letters, 2008, 18, 804-807.	1.0	18
42	Characterization of Two Î²-1,3-Glucosyltransferases fromEscherichia coliSerotypes O56 and O152. Journal of Bacteriology, 2008, 190, 4922-4932.	1.0	31
43	Inflammation and arthritis: perspectives of the glycobiologist. Expert Review of Clinical Immunology, 2008, 4, 173-191.	1.3	7
44	Requirement of N-glycosylation for the secretion of recombinant extracellular domain of human Fas in HeLa cells. International Journal of Biochemistry and Cell Biology, 2007, 39, 1625-1636.	1.2	23
45	Mucinâ€type O â€glycans in human colon and breast cancer: glycodynamics and functions. EMBO Reports, 2006, 7, 599-604.	2.0	464
46	UDP-Gal: GlcNAc-R Î²1,4-galactosyltransferaseâ€"a target enzyme for drug design. Acceptor specificity and inhibition of the enzyme. Glycoconjugate Journal, 2006, 23, 525-541.	1.4	40
47	Analysis of the Glycodynamics of Primary Osteoblasts and Bone Cancer Cells. , 2006, 347, 211-236.		1
48	Assay for a Galactosyltransferase Involved in the Assembly of the O7-Antigen Repeat Unit of Escherichia coli. , 2006, 347, 253-266.		0
49	The role of galactosyltransferases in cell surface functions and in the immune system. Drug News and Perspectives, 2006, 19, 401.	1.9	28
50	Identification of a UDP-Gal: GlcNAc-R galactosyltransferase activity in Escherichia coli VW187. Bioorganic and Medicinal Chemistry Letters, 2005, 15, 1205-1211.	1.0	44
51	N-Acyl derivatives of glucosamine as acceptor substrates for galactosyltransferase from bone and cartilage cells. Carbohydrate Research, 2005, 340, 1997-2003.	1.1	16
52	The wbbD gene of E. coli strain VW187 (O7:K1) encodes a UDP-Gal: GlcNAcÎ±-pyrophosphate-R Î²1,3-galactosyltransferase involved in the biosynthesis of O7-specific lipopolysaccharide. Glycobiology, 2005, 15, 605-613.	1.3	33
53	The effect of TNF-Î± on glycosylation pathways in bovine synoviocytes. Biochemistry and Cell Biology, 2004, 82, 559-568.	0.9	41
54	Intestinal candyfloss. Biochemical Journal, 2004, 384, e3-5.	1.7	2

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55	Sialylated core 1 based O-linked glycans enhance the growth rate of mammary carcinoma cells in MUC1 transgenic mice. International Journal of Oncology, 2004, 25, 937-43.	1.4	24
56	Soluble human core 2 Î²6-N-acetylglucosaminyltransferase C2GnT1 requires its conserved cysteine residues for full activity. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2003, 1648, 62-74.	1.1	17
57	Glycodynamics of Mucin Biosynthesis in Gastrointestinal Tumor Cells. Advances in Experimental Medicine and Biology, 2003, 535, 163-188.	0.8	47
58	Glycoprotein biosynthesis in porcine aortic endothelial cells and changes in the apoptotic cell population. Glycobiology, 2002, 12, 33-45.	1.3	27
59	Biosynthesis of mucin type O-glycans: lack of correlation between glycosyltransferase and sulfotransferase activities and CFTR expression. Glycoconjugate Journal, 2001, 18, 685-697.	1.4	16
60	Introduction to the special issue â€˜Glycobiology of cancerâ€™. Glycoconjugate Journal, 2001, 18, 837-838.	1.4	0
61	From imino sugars to cancer glycoproteins. Glycoconjugate Journal, 2001, 18, 867-870.	1.4	20
62	The Relative Activities of the C2GnT1 and ST3Gal-I Glycosyltransferases Determine O-Glycan Structure and Expression of a Tumor-associated Epitope on MUC1. Journal of Biological Chemistry, 2001, 276, 11007-11015.	1.6	165
63	Enzymatic basis for sialyl-Tn expression in human colon cancer cells. Glycoconjugate Journal, 1998, 15, 595-603.	1.4	65
64	Expression of stable human O-glycan core 2 Î²-1,6-N-acetylglucosaminyltransferase in Sf9 insect cells. Biochemical Journal, 1997, 325, 63-69.	1.7	50
65	Title is missing!. Glycoconjugate Journal, 1997, 14, 697-698.	1.4	0
66	Mucin glycoproteins in neoplasia. Glycoconjugate Journal, 1996, 13, 693-707.	1.4	260
67	Specificity of O-glycosylation by bovine colostrum UDP-GalNAc: polypeptide ?-N-acetylgalactosaminyltransferase using synthetic glycopeptide substrates. Glycoconjugate Journal, 1996, 13, 849-856.	1.4	50
68	Mechanisms Underlying Aberrant Glycosylation of MUC1 Mucin in Breast Cancer Cells. FEBS Journal, 1995, 233, 607-617.	0.2	305
69	Bausteine von Oligosacchariden, CIX. Synthese von modifizierten Oligosacchariden der Nâ€Glycoproteine zur Untersuchung der SubstratspezifitÃt der Nâ€Acetylglucosaminyltransferase I. Liebigs Annalen, 1995, 1995, 53-66.	0.8	9
70	Bausteine von Oligosacchariden, CX. Synthese von potentiellen Inhibitoren fÃ¼r die Nâ€Acetylglucosaminyltransferase I. Liebigs Annalen, 1995, 1995, 67-76.	0.8	5
71	Synthetic substrate analogues for UDP-GlcNAc: Man?1-3R ?1-2-N-acetylglucosaminyltransferase I. Substrate specificity and inhibitors for the enzyme. Glycoconjugate Journal, 1995, 12, 747-754.	1.4	25
72	Substrate specificity and inhibition of UDP-GlcNAc:GlcNAc?1-2Man?1-6R ?1,6-N-acetylglucosaminyltransferase V using synthetic substrate analogues. Glycoconjugate Journal, 1995, 12, 371-379.	1.4	34

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73	Synthesis of O-glycan core 3: Characterization of UDP-GlcNAc: GalNAc-R Î²3-N-acetyl-glucosaminyltransferase activity from colonic mucosal tissues and lack of the activity in human cancer cell lines. Glycobiology, 1995, 5, 351-357.	1.3	77
74	Characterization of a novel mucin sulphotransferase activity synthesizing sulphated O-glycan core 1, 3-sulphate-GalÎ²1-3GalNAcÎ±-R. Glycobiology, 1995, 5, 689-697.	1.3	54
75	Alterations of O-glycan biosynthesis in human colon cancer tissues. Glycobiology, 1994, 4, 873-884.	1.3	166
76	Synthetic substrate analogues for UDP-GlcNAc: ManÎ±1-6R Î²(1-2)-N-acetylglucosaminyltransferase II. Substrate specificity and inhibitors for the enzyme. Glycoconjugate Journal, 1994, 11, 210-216.	1.4	41
77	UDPgalactose:glycoprotein-N-acetyl-d-galactosamine 3-beta-d-galactosyltransferase activity synthesizing O-glycan core 1 is controlled by the amino acid sequence and glycosylation of glycopeptide substrates. FEBS Journal, 1994, 221, 1039-1046.	0.2	64
78	O-glycan biosynthesis in human colorectal adenoma cells during progression to cancer. FEBS Journal, 1994, 222, 415-424.	0.2	124
79	Bausteine von Oligosacchariden, CVII â€“ Synthese von modifizierten Oligosacchariden der Nâ€Glycoproteine zur Untersuchung der SubstratspezifitÃt der Nâ€Acetylglucosaminyltransferase II. Liebigs Annalen Der Chemie, 1993, 1993, 721-735.	0.8	11
80	Bausteine von Oligosacchariden, CVIII. Synthese von modifizierten Oligosacchariden der Nâ€Glycoproteine zur Untersuchung der SubstratspezifitÃten der Nâ€Acetylglucosaminyltransferasen III bis VI. Liebigs Annalen Der Chemie, 1993, 1993, 737-750.	0.8	17
81	Preferred conformations and dynamics of five core structures of mucin typeO-glycans determined by NMR spectroscopy and force field calculations. Glycoconjugate Journal, 1993, 10, 365-380.	1.4	25
82	ProcessingO-glycan core 1, Gal?1-3GalNAc?-R. Specificities of core 2, UDP-GlcNAc: Gal?1-3GalNAc-R(GlcNAc to GalNAc) ?6-N-acetylglucosaminyltransferase and CMP-sialic acid:Gal?1-3GalNAc-R ?3-sialyltransferase. Glycoconjugate Journal, 1993, 10, 381-394.	1.4	53
83	Clinical Aspects of Glycoprotein Biosynthesis. Critical Reviews in Clinical Laboratory Sciences, 1993, 30, 65-151.	2.7	50
84	Control of O-glycan synthesis: specificity and inhibition of O-glycan core 1 UDP-galactose:N-acetylgalactosamine-Î±-R Î²3-galactosyltransferase from rat liver. Biochemistry and Cell Biology, 1992, 70, 99-108.	0.9	43
85	Control of glycoprotein synthesis: substrate specificity of rat liver UDP-GlcNAc:Man?3R ?2-N-acetylglucosaminyl-transferase I using synthetic substrate analogues. Glycoconjugate Journal, 1992, 9, 180-190.	1.4	49
86	Bausteine von Oligosacchariden, CII. Synthese von modifizierten Derivaten der 2â€Acetamidoâ€2â€desoxyâ€<scp>D</scp>â€galactose zur Untersuchung der SubstratspezifitÃt der Coreâ€1â€Î²3â€Galâ€Transferase und der Coreâ€3â€Î²3â€GlcNAcâ€Transferase der Biosynthese von Oâ€Glycoproteinen. Liebigs Annalen Der Chemie, 1992, 1992, 735-745.	0.8	15
87	Bausteine von Oligosacchariden, CIII. Synthese von modifizierten Derivaten des Disaccharides Î²-D-Gal-(1 â†') Tj ETQq1 1 0.784314 rgBT Î±-3-Sialyltransferase der Biosynthese vonO-Glycoproteinen. Liebigs Annalen Der Chemie, 1992, 1992, 747-758.	0.8	15
88	Bausteine von Oligosacchariden, CIV. Synthese von verzweigten Tetrasaccharid- und Pentasaccharid-Strukturen vonN-Glycoproteinen, methyliert an 4â€²-OH des Verzweigungsgliedes. Liebigs Annalen Der Chemie, 1992, 1992, 1303-1313.	0.8	20
89	Control of mucin synthesis: the peptide portion of synthetic O-glycopeptide substrates influences the activity of O-glycan core 1 uridine 5'-diphospho-galactose:N-acetyl-.alpha.-galactosaminyl-.alpha.-R .beta.3-galactosyltransferase. Biochemistry, 1990, 29, 10206-10212.	1.2	74
90	Synthese von <scp>L</scp>â€Prolinâ€haltigen Oâ€Glycopeptiden. Liebigs Annalen Der Chemie, 1990, 1990, 719-739.	0.8	12

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91	Mucin synthesis. UDP-GlcNAc:GalNAc-R .beta.3-N-acetylglucosaminyltransferase and UDP-GlcNAc:GlcNAc.beta.1-3GalNAc-R (GlcNAc to GalNAc) .beta.6-N-acetylglucosaminyltransferase from pig and rat colon mucosa. Biochemistry, 1985, 24, 1866-1874.	1.2	118
92	Mucin synthesis. III. UDP-GlcNAc:GalÎ²1-3(GlcNAcÎ²1-6)GalNAc-R (GlcNAc to Gal) Î²3-N-acetylglucosaminyltransferase, an enzyme in porcine gastric mucosa involved in the elongation of mucin-type oligosaccharides. Canadian Journal of Biochemistry and Cell Biology, 1983, 61, 1322-1333.	1.3	50