Widmar Tanner

List of Publications by Year
in descending order

101 papers	7,576 citations	47006 47 h-index	54911 84 g-index
103 all docs	103 docs citations	103 times ranked	4190 citing authors

#	Article	IF	Citations
1	Protein glycosylation in yeast. BBA - Biomembranes, 1987, 906, 81-99.	8.0	320
2	Extracellular Invertase Is an Essential Component of Cytokinin-Mediated Delay of Senescence[W]. Plant Cell, 2004, 16, 1276-1287.	6.6	316
3	Protein Glycosylation, Conserved from Yeast to Man: A Model Organism Helps Elucidate Congenital Human Diseases. Angewandte Chemie - International Edition, 2006, 45, 6802-6818.	13.8	275
4	Visualization of Protein Compartmentation within the Plasma Membrane of Living Yeast Cells. Molecular Biology of the Cell, 2003, 14, 4427-4436.	2.1	264
5	Protein O-mannosylation. Biochimica Et Biophysica Acta - General Subjects, 1999, 1426, 297-307.	2.4	262
6	Membrane potential governs lateral segregation of plasma membrane proteins and lipids in yeast. EMBO Journal, 2007, 26, 1-8.	7.8	235
7	Plasma membrane microdomains regulate turnover of transport proteins in yeast. Journal of Cell Biology, 2008, 183, 1075-1088.	5.2	207
8	Specific Labelling of Cell Wall Proteins by Biotinylation. Identification of Four Covalently Linked O-mannosylated Proteins ofSaccharomyces cerevisiae. , 1997, 13, 1145-1154.		189
9	New Potential Cell Wall Glucanases of <i>Saccharomyces cerevisiae</i> and Their Involvement in Mating. Journal of Bacteriology, 1998, 180, 5030-5037.	2.2	188
10	Biosynthesis of the Vacuolar Yeast Glycoprotein Carboxypeptidase Y. Conversion of Precursor into the Enzyme. FEBS Journal, 1978, 85, 599-608.	0.2	166
11	A proton-cotransport system in a higher plant: Sucrose transport in Ricinus communis. Plant Science Letters, 1977, 9, 153-162.	1.8	160
12	The Hexose-Proton Cotransport System of Chlorella. Journal of General Physiology, 1974, 64, 568-581.	1.9	155
13	The Role of Dolicholmonophosphate in Glycoprotein Biosynthesis in Saccharomyces cerevisiae. FEBS Journal, 1974, 46, 35-41.	0.2	155
14	O-mannosyl glycans: from yeast to novel associations with human disease. Current Opinion in Structural Biology, 2003, 13, 621-630.	5.7	154
15	The Determination of the Membrane Potential of Chlorella vulgaris. Evidence for Electrogenic Sugar Transport. FEBS Journal, 1976, 70, 197-204.	0.2	152
16	Protein-O-glycosylation in yeast: protein-specific mannosyltransferases. Glycobiology, 1997, 7, 481-486.	2.5	152
17	Membrane Microdomains, Rafts, and Detergent-Resistant Membranes in Plants and Fungi. Annual Review of Plant Biology, 2013, 64, 501-529.	18.7	152
18	Pir Proteins of Saccharomyces cerevisiae Are Attached to Î^{2}-1,3-Glucan by a New Protein-Carbohydrate Linkage. Journal of Biological Chemistry, 2006, 281, 11523-11529.	3.4	149

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19	Carbohydrate Moiety of Carboxypeptidase Y and Perturbation of Its Biosynthesis. FEBS Journal, 1978, 91, 567-575.	0.2	147
20	Targeted disruption of the Walker-Warburg syndrome gene Pomt1 in mouse results in embryonic lethality. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 14126-14131.	7.1	146
21	Furrow-like invaginations of the yeast plasma membrane correspond to membrane compartment of Can1. Journal of Cell Science, 2009, 122, 2887-2894.	2.0	145
22	Distribution of Can1p into stable domains reflects lateral protein segregation within the plasma membrane of living S. cerevisiae cells. Journal of Cell Science, 2004, 117, 6031-6041.	2.0	141
23	The hexose carrier from Chlorella. FEBS Letters, 1989, 259, 43-46.	2.8	138
24	The Hexose-Proton Symport System of Chlorella vulgaris. Specificity Stoichiometry Energetics of Sugar-Induced Proton Uptake. FEBS Journal, 1974, 44, 219-223.	0.2	131
25	N-Glycosylation of Yeast Proteins. Characterization of the Solubilized Oligosaccharyl Transferase. FEBS Journal, 1981, 116, 101-108.	0.2	130
26	Role of NaOH-extractable cell wall proteins Ccw5p, Ccw6p, Ccw7p and Ccw8p (members of the Pir) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5		107
27	O-Glycosylation inSaccharomyces cerevisiaeis initiated at the endoplasmic reticulum. FEBS Letters, 1983, 158, 335-338.	2.8	104
28	Identification of the Lipid Intermediate in Yeast Mannan Biosynthesis. FEBS Journal, 1973, 37, 1-6.	0.2	103
29	The Function of myo-Inositol in the Biosynthesis of Raffinose. Purification and Characterization of Galactinol:Sucrose 6-Galactosyltransferase from Vicia faba Seeds. FEBS Journal, 1973, 38, 103-110.	0.2	103
30	Protein O-Glycosylation in Yeast. Journal of Biological Chemistry, 1995, 270, 2770-2775.	3.4	88
31	Protein O-glycosylation in Saccharomyces cerevisiae Purification and characterization of the dolichyl-phosphate-D-mannose-protein O-D-mannosyltransferase. FEBS Journal, 1991, 196, 185-190.	0.2	87
32	Formation of lipid-bound oligosaccharides in yeast. Biochimica Et Biophysica Acta - General Subjects, 1975, 399, 364-374.	2.4	85
33	Specificity of Solubilized Yeast Glycosyl Transferases for Polyprenyl Derivatives. FEBS Journal, 1980, 105, 517-523.	0.2	85
34	Membrane-bound mannosyl transferase in yeast glycoprotein biosynthesis. Biochimica Et Biophysica Acta - Biomembranes, 1974, 350, 225-235.	2.6	84
35	Glycosyl Transfer from Dolichyl Phosphate Sugars to Endogenous and Exogenous Glycoprotein Acceptors in Yeast. FEBS Journal, 1978, 83, 563-570.	0.2	81
36	The lateral compartmentation of the yeast plasma membrane. Yeast, 2010, 27, 473-478.	1.7	77

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37	O â€Mannosylation precedes and potentially controls the N â€glycosylation of a yeast cell wall glycoprotein. EMBO Reports, 2003, 4, 628-632.	4.5	75
38	An obligatory role of protein glycosylation in the life cycle of yeast cells. FEBS Letters, 1982, 148, 49-53.	2.8	71
39	Deletion of New Covalently Linked Cell Wall Glycoproteins Alters the Electrophoretic Mobility of Phosphorylated Wall Components of Saccharomyces cerevisiae. Journal of Bacteriology, 1999, 181, 3076-3086.	2.2	71
40	O-Glycosylation of Axl2/Bud10p by Pmt4p Is Required for Its Stability, Localization, and Function in Daughter Cells. Journal of Cell Biology, 1999, 145, 1177-1188.	5.2	65
41	PMT3 andPMT4, two new members of the protein-O-mannosyltransferase gene family ofSaccharomyces cerevisiae. Yeast, 1995, 11, 1345-1351.	1.7	60
42	The effect of intracellular pH on the rate of hexose uptake in Chlorella. Biochimica Et Biophysica Acta - Biomembranes, 1979, 555, 524-530.	2.6	59
43	Lipid Raft-Based Membrane Compartmentation of a Plant Transport Protein Expressed in Saccharomyces cerevisiae. Eukaryotic Cell, 2006, 5, 945-953.	3.4	59
44	Solubilization and Characterization of the Initial Enzymes of the Dolichol Pathway from Yeast. FEBS Journal, 1982, 126, 319-325.	0.2	56
45	The Active Hexose-Uptake System of Chlorella vulgaris. Km-Values for 6-Deoxyglucose Influx and Efflux and Their Contribution to Sugar Accumulation. FEBS Journal, 1973, 39, 193-200.	0.2	52
46	Regulation and characterization of two inducible amino-acid transport systems in Chlorella vulgaris. Planta, 1983, 159, 404-410.	3.2	52
47	In Plant and Animal Cells, Detergent-Resistant Membranes Do Not Define Functional Membrane Rafts. Plant Cell, 2011, 23, 1191-1193.	6.6	50
48	ProteinO-glycosylation inSaccharomyces cerevisiae: the proteinO-mannosyltransferases Pmt1p and Pmt2p function as heterodimer. FEBS Letters, 1995, 377, 128-130.	2.8	49
49	Sed1p and Srl1p are required to compensate for cell wall instability in Saccharomyces cerevisiae mutants defective in multiple GPI-anchored mannoproteins. Molecular Microbiology, 2004, 52, 1413-1425.	2.5	49
50	Yeast Mannosyl Transferases Requiring Dolichyl Phosphate and Dolichyl Phosphate Mannose as Substrate. Partial Purification and Characterization of the Solubilized Enzyme. FEBS Journal, 1980, 105, 509-515.	0.2	47
51	Inhibition of the Apparent Rate of Synthesis of the Vacuolar Glycoprotein Carboxypeptidase Y and Its Protein Antigen by Tunicamycin in <i>Saccharomyces cerevisiae</i>. Antimicrobial Agents and Chemotherapy, 1976, 10, 402-410.	3.2	46
52	Expression of a sugar-transporter gene family in a photoautotrophic suspension culture of Chenopodium rubrum L.. Planta, 1994, 193, 365-71.	3.2	46
53	Unidirectional arginine transport in reconstituted plasma-membrane vesicles from yeast overexpressing CAN1. FEBS Journal, 1993, 211, 683-688.	0.2	45
54	Scw10p, a cell-wall glucanase/transglucosidase important for cell-wall stability in Saccharomyces cerevisiae. Microbiology (United Kingdom), 2004, 150, 3197-3208.	1.8	44

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55	Purification of the inducible Î±-agglutinin ofS. cerevisiaeand molecular cloning of the gene. FEBS Letters, 1989, 255, 290-294.	2.8	43
56	C Terminus of Nce102 Determines the Structure and Function of Microdomains in the Saccharomyces cerevisiae Plasma Membrane. Eukaryotic Cell, 2010, 9, 1184-1192.	3.4	41
57	A temperature-sensitive N-glycosylation mutant of S. cerevisiae that behaves like a cell-cycle mutant. Experimental Cell Research, 1984, 150, 309-313.	2.6	40
58	The chlorella hexose/H+-symporters. International Review of Cytology, 2000, 200, 101-141.	6.2	39
59	Phosphatidyl ethanolamine is essential for targeting the arginine transporter Can1p to the plasma membrane of yeast. Biochimica Et Biophysica Acta - Biomembranes, 2002, 1564, 9-13.	2.6	37
60	Distribution of Cortical Endoplasmic Reticulum Determines Positioning of Endocytic Events in Yeast Plasma Membrane. PLoS ONE, 2012, 7, e35132.	2.5	37
61	Effects of Gibberellic Acid and of Tunicamycin on Glycosyl-Transferase Activities and on alpha-Amylase Secretion in Barley. FEBS Journal, 1979, 102, 375-382.	0.2	35
62	Differential effect of phosphatidylethanolamine depletion on raft proteins. Biochimica Et Biophysica Acta - Biomembranes, 2005, 1711, 87-95.	2.6	34
63	A membrane-associated isozyme of invertase in yeast precursor of the external glycoprotein. Biochimica Et Biophysica Acta - General Subjects, 1978, 538, 426-434.	2.4	32
64	myo-Inositol, a Cofactor in the Biosynthesis of Raffinose. Hoppe-Seyler's Zeitschrift FÃ¼r Physiologische Chemie, 1970, 351, 1494-1498.	1.6	31
65	Construction of phosphatidylethanolamine-less strain ofSaccharomyces cerevisiae. Effect on amino acid transport. Yeast, 2001, 18, 251-260.	1.7	31
66	Alteration of Substrate Affinities and Specificities of theChlorella Hexose/H+ Symporters by Mutations and Construction of Chimeras. Journal of Biological Chemistry, 1998, 273, 11456-11462.	3.4	30
67	The Chlorella H+/hexose cotransporter gene. Current Genetics, 1991, 19, 215-219.	1.7	28
68	Biosynthesis of carboxypeptidase Y in yeast. Evidence for a precursor form of the glycoprotein. Biochemical and Biophysical Research Communications, 1976, 72, 1430-1436.	2.1	27
69	Dolichylphosphate-dependent Glycosyl Transfer Reactions in the Endoplasmic Reticulum of Castor Bean Endosperm. Plant Physiology, 1979, 64, 445-449.	4.8	27
70	Occurrence of several glycoproteins in glyoxysomal membranes of castor beans. FEBS Letters, 1981, 131, 68-72.	2.8	25
71	Partial Purification and Characterization of Inducible Transport Proteins of Chlorella. Zeitschrift FÃ¼r Pflanzenphysiologie, 1984, 114, 367-375.	1.4	25
72	Subcellular site of mannosyl transfer to dolichyl phosphate in Phaseolus aureus. Plant Science Letters, 1978, 11, 27-34.	1.8	24

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73	Characterization and Partial Purification of an Inducible Protein Related to Hexose Proton Cotransport of Chlorella vulgaris. FEBS Journal, 1977, 72, 509-514.	0.2	23
74	Essential Sulfhydryl Group in the Transport-catalyzing Protein of the Hexose-Proton Cotransport System of Chlorella. Plant Physiology, 1978, 61, 785-786.	4.8	23
75	Dolichyl phosphate linked sugars as intermediates in the synthesis of yeast mannoproteins: an in vivo study. Archives of Microbiology, 1980, 127, 231-237.	2.2	22
76	A new Dol-P-Man:protein O-D-mannosyltransferase activity from Saccharomyces cerevisiae. Glycobiology, 1995, 5, 77-82.	2.5	22
77	Selection and Characterization of Chlorella Mutants Deficient in Amino Acid Transport. Plant Physiology, 1985, 79, 760-764.	4.8	20
78	Nystatin changes the properties of transporters for arginine and sugars An in vitro study. FEBS Letters, 1994, 350, 46-50.	2.8	19
79	Transmembrane voltage: Potential to induce lateral microdomains. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2016, 1861, 806-811.	2.4	19
80	Further evidence for dolichyl phosphate-mediated glycosyl translocation through membranes. FEMS Microbiology Letters, 1984, 21, 305-308.	1.8	18
81	Purification of the Chlorella HUP1 hexose-proton symporter to homogeneity and its reconstitution in vitro. Plant Journal, 1996, 10, 1045-1053.	5.7	18
82	Post-translational fate ofCAN1 permease ofSaccharomyces cerevisiae. , 1998, 14, 215-224.		18
83	Rapid release of free fatty acids during cell breakage and their effects on a sugar-proton cotransport system inChlorella vulgaris. FEBS Letters, 1975, 60, 346-348.	2.8	17
84	Apparent inhibition of glycoprotein synthesis by S.cerevisiae mating pheromones. FEBS Letters, 1985, 184, 313-317.	2.8	17
85	Properties of a reconstituted eukaryotic hexose/proton symporter solubilized by structurally related non-ionic detergents: specific requirement of phosphatidylcholine for permease stability. Biochimica Et Biophysica Acta - Biomembranes, 2000, 1463, 407-418.	2.6	17
86	Importance of the first external loop for substrate recognition as revealed by chimericChlorellamonosaccharide/H+symporters. FEBS Letters, 1996, 381, 127-130.	2.8	15
87	Saccharomyces cerevisiae mating pheromones specifically inhibit the synthesis of proteins destined to be N-glycosylated. FEBS Journal, 1984, 140, 183-189.	0.2	13
88	The HUP1 gene product of Chlorella kessleri: H+/glucose symport studied in vitro. Biochimica Et Biophysica Acta - Biomembranes, 1994, 1194, 149-154.	2.6	13
89	Saccharomyces cerevisiaeÎ±-factor prevents formation of glycoproteins inacells. FEBS Letters, 1983, 158, 247-251.	2.8	11
90	Amino Acid Sequence of an Algal Peptide Elongation Factor EF-2 Deduced from the Complementary DNA Sequence. Plant Physiology, 1991, 97, 469-471.	4.8	9

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91	Characterization of Two New Genes Down-regulated by Î±-factor. Yeast, 1997, 13, 809-817.	1.7	9
92	Glycosylation of Intra- and Extra-cellular Yeast Glycoproteins. Biochemical Society Transactions, 1979, 7, 329-331.	3.4	7
93	Do drought-hardened plants suffer from fever?. Trends in Plant Science, 2001, 6, 507.	8.8	7
94	Expression of eukaryotic plasma membrane transporter HUP1 fromChlorella kessleriinEscherichia coli. FEMS Microbiology Letters, 1999, 174, 65-72.	1.8	6
95	The C-terminal tetrapeptide HWFW of theChlorellaHUP1 hexose/H+-symporter is essential for full activity and an Î±-helical structure of the C-terminus. FEBS Letters, 2000, 468, 225-230.	2.8	6
96	Getting to the heart of transpiration in plants. Nature, 2003, 424, 613-613.	27.8	2
97	IonenstrÃ¶me und SubstratflÃ¼sse: Durch ihre Kopplung kÃ¶nnen Zellen Stoffe aktiv aufnehmen. Biologie in Unserer Zeit, 1985, 15, 8-15.	0.2	1
98	In 75 semesters, from mannan and dolichol to Pir proteins and membrane compartmentation: personal recollections. Yeast, 2007, 24, 221-228.	1.7	1
99	Chapter 5 A Botanist Going Astray: 77 Semesters of Studying Membrane Transport and Protein Glycosylation. Comprehensive Chemical Kinetics, 2008, 46, 335-396.	2.3	0
100	More than 40 years of glycobiology in Regensburg. Biochemical and Biophysical Research Communications, 2012, 425, 578-582.	2.1	0
101	On the Biosynthesis of Carboxypeptidase Y (CY). , 1979, , 677-679.		0