Raimund Tenhaken

List of Publications by Year
in descending order

64	6,147	172457 29	118850 62
papers	citations	h-index	g-index

64	64	64	6646
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	H2O2 from the oxidative burst orchestrates the plant hypersensitive disease resistance response. Cell, 1994, 79, 583-593.	28.9	2,602
2	Cell wall remodeling under abiotic stress. Frontiers in Plant Science, 2014, 5, 771.	3.6	509
3	Function of Oxidative Cross-Linking of Cell Wall Structural Proteins in Plant Disease Resistance.. Plant Cell, 1994, 6, 1703-1712.	6.6	484
4	Function of the oxidative burst in hypersensitive disease resistance.. Proceedings of the National Academy of Sciences of the United States of America, 1995, 92, 4158-4163.	7.1	377
5	The inositol oxygenase gene family of Arabidopsis is involved in the biosynthesis of nucleotide sugar precursors for cell-wall matrix polysaccharides. Planta, 2005, 221, 243-254.	3.2	135
6	Cloning of an Enzyme That Synthesizes a Key Nucleotide-Sugar Precursor of Hemicellulose Biosynthesis from Soybean:UDP-Glucose Dehydrogenase. Plant Physiology, 1996, 112, 1127-1134.	4.8	122
7	Myoinositol Oxygenase Controls the Level of Myoinositol in Arabidopsis, But Does Not Increase Ascorbic Acid. Plant Physiology, 2009, 149, 1042-1049.	4.8	108
8	Down-regulation of UDP-glucuronic Acid Biosynthesis Leads to Swollen Plant Cell Walls and Severe Developmental Defects Associated with Changes in Pectic Polysaccharides. Journal of Biological Chemistry, 2011, 286, 39982-39992.	3.4	104
9	Genome-wide analysis of the UDP-glucose dehydrogenase gene family in Arabidopsis, a key enzyme for matrix polysaccharides in cell walls. Journal of Experimental Botany, 2007, 58, 3609-3621.	4.8	95
10	Salicylic Acid Is Needed in Hypersensitive Cell Death in Soybean but Does Not Act as a Catalase Inhibitor. Plant Physiology, 1997, 115, 291-298.	4.8	88
11	Matrix polysaccharide precursors in Arabidopsis cell walls are synthesized by alternate pathways with organ-specific expression patterns. Plant Journal, 2000, 21, 537-546.	5.7	79
12	Cloning of genes by mRNA differential display induced during the hypersensitive reaction of soybean after inoculation with Pseudomonas syringae pv. glycinea. Plant Molecular Biology, 1998, 38, 1225-1234.	3.9	75
13	Isolation of a novel ABC-transporter gene from soybean induced by salicylic acid. Journal of Experimental Botany, 2006, 57, 2193-2201.	4.8	73
14	OCCURRENCE AND CHARACTERIZATION OF ARABINOGALACTANâ€LIKE PROTEINS AND HEMICELLULOSES IN MICRASTERIAS (STREPTOPHYTA)¹. Journal of Phycology, 2008, 44, 1221-1234.	2.3	73
15	DCD - a novel plant specific domain in proteins involved in development and programmed cell death. BMC Bioinformatics, 2005, 6, 169.	2.6	58
16	Raffinose Family Oligosaccharides Act As Galactose Stores in Seeds and Are Required for Rapid Germination of Arabidopsis in the Dark. Frontiers in Plant Science, 2016, 7, 1115.	3.6	57
17	Myoâ€inositol oxygenase genes are involved in the development of syncytia induced by Heterodera schachtii in Arabidopsis roots. New Phytologist, 2009, 184, 457-472.	7.3	51
18	<scp>UDP</scp>â€sugar pyrophosphorylase is essential for arabinose and xylose recycling, and is required during vegetative and reproductive growth in <scp>A</scp>rabidopsis. Plant Journal, 2013, 74, 239-247.	5.7	51

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19	Chitinase in cucumber hypocotyls is induced by germinating fungal spores and by fungal elicitor in synergism with inducers of acquired resistance. Plant Journal, 1998, 13, 447-454.	5.7	50
20	The effect of Translationally Controlled Tumour Protein (TCTP) on programmed cell death in plants. BMC Plant Biology, 2013, 13, 135.	3.6	47
21	Bimodal Pollination Systems in Andean Melastomataceae Involving Birds, Bats, and Rodents. American Naturalist, 2019, 194, 104-116.	2.1	47
22	Cloning of Glucuronokinase from Arabidopsis thaliana, the Last Missing Enzyme of the myo-Inositol Oxygenase Pathway to Nucleotide Sugars. Journal of Biological Chemistry, 2010, 285, 2902-2910.	3.4	46
23	Myoâ€inositol oxygenase is important for the removal of excess myoâ€inositol from syncytia induced by <scp>H</scp>eterodera schachtii in <scp>A</scp>rabidopsis roots. New Phytologist, 2014, 201, 476-485.	7.3	46
24	Down-regulation of the myo-inositol oxygenase gene family has no effect on cell wall composition in Arabidopsis. Planta, 2011, 234, 157-169.	3.2	41
25	The Myoâ€inositol pathway does not contribute to ascorbic acid synthesis. Plant Biology, 2019, 21, 95-102.	3.8	37
26	Cell Wall Ingrowths in Nematode Induced Syncytia Require UGD2 and UGD3. PLoS ONE, 2012, 7, e41515.	2.5	37
27	A mutation in the Arabidopsis thaliana cell wall biosynthesis gene pectin methylesterase 3 as well as its aberrant expression cause hypersensitivity specifically to Zn. Plant Journal, 2013, 76, 151-164.	5.7	36
28	Quantitative HPLC-MS analysis of nucleotide sugars in plant cells following off-line SPE sample preparation. Analytical and Bioanalytical Chemistry, 2014, 406, 3229-3237.	3.7	34
29	Transient alkalinization of the leaf apoplast stiffens the cell wall during onset of chloride salinity in corn leaves. Journal of Biological Chemistry, 2017, 292, 18800-18813.	3.4	34
30	Title is missing!. European Journal of Plant Pathology, 2001, 107, 323-336.	1.7	31
31	Characterization of a Diffusible Signal Capable of Inducing Defense Gene Expression in Tobacco. Plant Physiology, 1997, 113, 621-629.	4.8	30
32	Characterization of GDP-mannose Dehydrogenase from the Brown Alga Ectocarpus siliculosus Providing the Precursor for the Alginate Polymer. Journal of Biological Chemistry, 2011, 286, 16707-16715.	3.4	29
33	Recombinant UDP-glucose dehydrogenase from soybean. Plant Physiology and Biochemistry, 2002, 40, 1011-1017.	5.8	28
34	Suppression of the ribosomal L2 gene reveals a novel mechanism for stress adaptation in soybean. Planta, 2001, 212, 792-798.	3.2	27
35	Molecular cloning of AtRS4, a seed specific multifunctional RFO synthase/galactosylhydrolase in Arabidopsis thaliana. Frontiers in Plant Science, 2015, 6, 789.	3.6	27
36	Molecular and biochemical analysis of the first ARA6 homologue, a RAB5 GTPase, from green algae. Journal of Experimental Botany, 2013, 64, 5553-5568.	4.8	26

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37	Ascorbate oxidation activates systemic defence against root-knot nematode Meloidogyne graminicola in rice. Journal of Experimental Botany, 2020, 71, 4271-4284.	4.8	26
38	Purification, characterization and functional cloning of inositol oxygenase fromCryptococcus. Yeast, 2003, 20, 1317-1329.	1.7	24
39	Medicarpin and maackiain 3-O-glucoside-6?-O-malonate conjugates are constitutive compounds in chickpea (Cicer arietinum L.) cell cultures. Plant Cell Reports, 1991, 10, 371-4.	5.6	23
40	Characterization and Cloning of Cutinase from Ascochyta rabiei. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 1997, 52, 197-208.	1.4	22
41	Induction of alkalinization and an oxidative burst by low doses of cycloheximide in soybean cells. Planta, 1998, 206, 666-672.	3.2	22
42	Investigations on N-rich protein (NRP) of Arabidopsis thaliana under different stress conditions. Plant Physiology and Biochemistry, 2011, 49, 293-302.	5.8	21
43	Purification and characterization of pterocarpan hydroxylase, a flavoprotein monooxygenase from the fungus Ascochyta rabiei involved in pterocarpan phytoalexin metabolism. Archives of Microbiology, 1991, 155, 353.	2.2	18
44	Cloning of putative subunits of the soybean plasma membrane NADPH oxidase involved in the oxidative burst by antibody expression screening. Protoplasma, 1998, 205, 21-28.	2.1	18
45	Generation of PHB from Spent Sulfite Liquor Using Halophilic Microorganisms. Microorganisms, 2015, 3, 268-289.	3.6	17
46	Characterization of metabolic changes involved in hypersensitive-like browning reactions of chickpea (Cicer arietinum L.) cell cultures following challenge by Ascochyta rabiei culture filtrate. Physiological and Molecular Plant Pathology, 1994, 44, 141-155.	2.5	15
47	Characterization of Pectic Enzymes from the Chickpea Pathogen Ascochyta rabiei. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 1991, 46, 51-57.	1.4	14
48	Cloning, Expression and Characterization of Protein Elicitors from the Soyabean Pathogenic Fungus Phytophthora sojae. Journal of Phytopathology, 2000, 148, 161-167.	1.0	14
49	Defence gene expression in soybean is linked to the status of the cell death program. , 2000, 44, 209-218.		13
50	The role of arabinokinase in arabinose toxicity in plants. Plant Journal, 2016, 87, 376-390.	5.7	13
51	Nectaries in ferns: their taxonomic distribution, structure, function, and sugar composition. American Journal of Botany, 2022, 109, 46-57.	1.7	13
52	WY-14,643 and other agonists of the peroxisome proliferator-activated receptor reveal a new mode of action for salicylic acid in soybean disease resistance. Planta, 2001, 212, 888-895.	3.2	11
53	Phosphoglucomutase Is Not the Target for Galactose Toxicity in Plants. Frontiers in Plant Science, 2020, 11, 167.	3.6	11
54	Photodynamic Inactivation of plant pathogens part II: fungi. Photochemical and Photobiological Sciences, 2022, 21, 195-207.	2.9	9

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55	Nonradioactive enzyme measurement by high-performance liquid chromatography of partially purified sugar-1-kinase (glucuronokinase) from pollen of Lilium longiflorum. Analytical Biochemistry, 2009, 388, 254-259.	2.4	8
56	UDP-sugar pyrophosphorylase controls the activity of proceeding sugar-1-kinases enzymes. Plant Signaling and Behavior, 2013, 8, e25478.	2.4	8
57	Molecular Cloning of a Novel Glucuronokinase/Putative Pyrophosphorylase from Zebrafish Acting in an UDP-Glucuronic Acid Salvage Pathway. PLoS ONE, 2014, 9, e89690.	2.5	8
58	Arabidopsis MAP-Kinase 3 Phosphorylates UDP-Glucose Dehydrogenase: a Key Enzyme Providing UDP-Sugar for Cell Wall Biosynthesis. Plant Molecular Biology Reporter, 2018, 36, 870-877.	1.8	6
59	Galactose induces formation of cell wall stubs and cell death in Arabidopsis roots. Planta, 2022, 256, .	3.2	6
60	An emerging role of pectic rhamnogalacturonanII for cell wall integrity. Plant Signaling and Behavior, 2012, 7, 298-299.	2.4	5
61	Overexpression of UDPâ€sugar pyrophosphorylase leads to higher sensitivity towards galactose, providing new insights into the mechanisms of galactose toxicity in plants. Plant Journal, 2022, 109, 1416-1426.	5.7	4
62	A mitogen-activated-protein kinase from soybean is activated by a pathogen and novel functional analogs of salicylic acid. Plant Physiology and Biochemistry, 2003, 41, 929-934.	5.8	2
63	Characterization of an Arabidopsis Defensin-like Gene Conferring Resistance against Nematodes. Plants, 2022, 11, 280.	3.5	2
64	Transgenic Plants with Enhanced Tolerance against Microbial Pathogens. , 2002, , .		0