

Frederik BÃ¶rnke

List of Publications by Year in descending order

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49
papers

3,158
citations

136950

32
h-index

189892

50
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all docs

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docs citations

57
times ranked

4047
citing authors

#	ARTICLE	IF	CITATIONS
1	Plastidial Thioredoxin <i>z</i> Interacts with Two Fructokinase-Like Proteins in a Thiol-Dependent Manner: Evidence for an Essential Role in Chloroplast Development in <i>Arabidopsis</i> and <i>Nicotiana benthamiana</i> . <i>Plant Cell</i> , 2010, 22, 1498-1515.	6.6	281
2	Quantitative phosphoproteomics reveals the role of the AMPK plant ortholog SnRK1 as a metabolic master regulator under energy deprivation. <i>Scientific Reports</i> , 2016, 6, 31697.	3.3	252
3	A Bacterial Acetyltransferase Destroys Plant Microtubule Networks and Blocks Secretion. <i>PLoS Pathogens</i> , 2012, 8, e1002523.	4.7	178
4	Altering Trehalose-6-Phosphate Content in Transgenic Potato Tubers Affects Tuber Growth and Alters Responsiveness to Hormones during Sprouting. <i>Plant Physiology</i> , 2011, 156, 1754-1771.	4.8	138
5	A Barley ROP GTPase ACTIVATING PROTEIN Associates with Microtubules and Regulates Entry of the Barley Powdery Mildew Fungus into Leaf Epidermal Cells. <i>Plant Cell</i> , 2011, 23, 2422-2439.	6.6	127
6	Capsid Protein-Mediated Recruitment of Host DnaJ-Like Proteins Is Required for <i>Potato Virus Y</i> Infection in Tobacco Plants. <i>Journal of Virology</i> , 2007, 81, 11870-11880.	3.4	123
7	The <i>Xanthomonas campestris</i> pv. <i>vesicatoria</i> Type III Effector Protein XopJ Inhibits Protein Secretion: Evidence for Interference with Cell Wall-Associated Defense Responses. <i>Molecular Plant-Microbe Interactions</i> , 2009, 22, 655-664.	2.6	121
8	The <i>Xanthomonas campestris</i> Type III Effector XopJ Targets the Host Cell Proteasome to Suppress Salicylic-Acid Mediated Plant Defence. <i>PLoS Pathogens</i> , 2013, 9, e1003427.	4.7	107
9	Temporal and spatial control of gene silencing in transgenic plants by inducible expression of double-stranded RNA. <i>Plant Journal</i> , 2003, 36, 731-740.	5.7	94
10	The Proteasome Acts as a Hub for Plant Immunity and Is Targeted by <i>Pseudomonas</i> Type III Effectors. <i>Plant Physiology</i> , 2016, 172, 1941-1958.	4.8	94
11	Decreased sucrose content triggers starch breakdown and respiration in stored potato tubers (<i>Solanum tuberosum</i>). <i>Journal of Experimental Botany</i> , 2003, 54, 477-488.	4.8	91
12	In-depth analysis of the distinctive effects of norflurazon implies that tetrapyrrole biosynthesis, organellar gene expression and ABA cooperate in the GUN-type of plastid signalling. <i>Physiologia Plantarum</i> , 2010, 138, 503-519.	5.2	80
13	Decreased sucrose-6-phosphate phosphatase level in transgenic tobacco inhibits photosynthesis, alters carbohydrate partitioning, and reduces growth. <i>Planta</i> , 2005, 221, 479-492.	3.2	76
14	Loss of cytosolic fructose-1,6-bisphosphatase limits photosynthetic sucrose synthesis and causes severe growth retardations in rice (<i>Oryza sativa</i>). <i>Plant, Cell and Environment</i> , 2008, 31, 1851-1863.	5.7	73
15	The complex becomes more complex: protein-protein interactions of SnRK1 with DUF581 family proteins provide a framework for cell- and stimulus type-specific SnRK1 signaling in plants. <i>Frontiers in Plant Science</i> , 2014, 5, 54.	3.6	72
16	Functional analysis of the essential bifunctional tobacco enzyme 3-dehydroquinate dehydratase/shikimate dehydrogenase in transgenic tobacco plants. <i>Journal of Experimental Botany</i> , 2007, 58, 2053-2067.	4.8	70
17	Differential Expression of Sucrose-Phosphate Synthase Isoenzymes in Tobacco Reflects Their Functional Specialization during Dark-Governed Starch Mobilization in Source Leaves. <i>Plant Physiology</i> , 2005, 139, 1163-1174.	4.8	69
18	A protein-protein interaction network linking the energy-sensor kinase SnRK1 to multiple signaling pathways in <i>Arabidopsis thaliana</i> . <i>Current Plant Biology</i> , 2016, 5, 36-44.	4.7	61

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19	Cloning and Characterization of the Gene Cluster for Palatinose Metabolism from the Phytopathogenic Bacterium <i>Erwinia rhapontici</i> . <i>Journal of Bacteriology</i> , 2001, 183, 2425-2430.	2.2	59
20	HopZ4 from <i>Pseudomonas syringae</i> , a Member of the HopZ Type III Effector Family from the YopJ Superfamily, Inhibits the Proteasome in Plants. <i>Molecular Plant-Microbe Interactions</i> , 2014, 27, 611-623.	2.6	56
21	The variable C-terminus of 14-3-3 proteins mediates isoform-specific interaction with sucrose-phosphate synthase in the yeast two-hybrid system. <i>Journal of Plant Physiology</i> , 2005, 162, 161-168.	3.5	55
22	Target-based discovery of novel herbicides. <i>Current Opinion in Plant Biology</i> , 2004, 7, 219-225.	7.1	54
23	Loss of the two major leaf isoforms of sucrose-phosphate synthase in <i>Arabidopsis thaliana</i> limits sucrose synthesis and nocturnal starch degradation but does not alter carbon partitioning during photosynthesis. <i>Journal of Experimental Botany</i> , 2014, 65, 5217-5229.	4.8	50
24	The <i>Xanthomonas campestris</i> Type III Effector XopJ Proteolytically Degrades Proteasome Subunit RPT6. <i>Plant Physiology</i> , 2015, 168, 107-119.	4.8	48
25	OPTIMAS-DW: A comprehensive transcriptomics, metabolomics, ionomics, proteomics and phenomics data resource for maize. <i>BMC Plant Biology</i> , 2012, 12, 245.	3.6	47
26	Antisense inhibition of enolase strongly limits the metabolism of aromatic amino acids, but has only minor effects on respiration in leaves of transgenic tobacco plants. <i>New Phytologist</i> , 2009, 184, 607-618.	7.3	46
27	Redox activity of thioredoxin z and fructokinase-like protein 1 is dispensable for autotrophic growth of <i>Arabidopsis thaliana</i> . <i>Journal of Experimental Botany</i> , 2014, 65, 2405-2413.	4.8	44
28	Thigmomorphogenesis – Control of plant growth by mechanical stimulation. <i>Scientia Horticulturae</i> , 2018, 234, 344-353.	3.6	41
29	HEMA RNAi silencing reveals a control mechanism of ALA biosynthesis on Mg chelatase and Fe chelatase. <i>Plant Molecular Biology</i> , 2007, 64, 733-742.	3.9	38
30	Two Novel Proteins, MRL7 and Its Paralog MRL7-L, Have Essential but Functionally Distinct Roles in Chloroplast Development and Are Involved in Plastid Gene Expression Regulation in <i>Arabidopsis</i> . <i>Plant and Cell Physiology</i> , 2011, 52, 1017-1030.	3.1	38
31	SseF, a type III effector protein from the mammalian pathogen <i>Salmonella enterica</i> , requires resistance gene-mediated signalling to activate cell death in the model plant <i>Nicotiana benthamiana</i> . <i>New Phytologist</i> , 2012, 194, 1046-1060.	7.3	38
32	Potato tubers as bioreactors for palatinose production. <i>Journal of Biotechnology</i> , 2002, 96, 119-124.	3.8	36
33	A bacterial effector counteracts host autophagy by promoting degradation of an autophagy component. <i>EMBO Journal</i> , 2022, 41, .	7.8	36
34	Tailoring plant metabolism for the production of novel polymers and platform chemicals. <i>Current Opinion in Plant Biology</i> , 2010, 13, 353-361.	7.1	35
35	<i>Arabidopsis</i> CBF5 interacts with the H/ACA snoRNP assembly factor NAF1. <i>Plant Molecular Biology</i> , 2007, 65, 615-626.	3.9	33
36	RNA interference-mediated repression of sucrose-phosphatase in transgenic potato tubers (<i>Solanum</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf on total soluble carbohydrate accumulation. <i>Plant, Cell and Environment</i> , 2007, 31, 071115091544001-???.	5.7	32

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37	High-level production of the non-cariogenic sucrose isomer palatinose in transgenic tobacco plants strongly impairs development. <i>Planta</i> , 2002, 214, 356-364.	3.2	31
38	STOREKEEPER RELATED1/G-Element Binding Protein (STKR1) Interacts with Protein Kinase SnRK1. <i>Plant Physiology</i> , 2018, 176, 1773-1792.	4.8	31
39	Interactions of <i>Xanthomonas</i> type-III effector proteins with the plant ubiquitin and ubiquitin-like pathways. <i>Frontiers in Plant Science</i> , 2014, 5, 736.	3.6	28
40	Identification and Characterization of Three Epithiospecifier Protein Isoforms in <i>Brassica oleracea</i> . <i>Frontiers in Plant Science</i> , 2019, 10, 1552.	3.6	26
41	Hop/Sti1 – A Two-Faced Cochaperone Involved in Pattern Recognition Receptor Maturation and Viral Infection. <i>Frontiers in Plant Science</i> , 2017, 8, 1754.	3.6	25
42	Large-scale phenotyping of transgenic tobacco plants (<i>Nicotiana tabacum</i>) to identify essential leaf functions. <i>Plant Biotechnology Journal</i> , 2008, 6, 246-263.	8.3	24
43	A Remorin from <i>Nicotiana benthamiana</i> Interacts with the <i>Pseudomonas</i> Type-III Effector Protein HopZ1a and is Phosphorylated by the Immune-Related Kinase PBS1. <i>Molecular Plant-Microbe Interactions</i> , 2019, 32, 1229-1242.	2.6	24
44	The <i>Xanthomonas</i> type-III effector XopS stabilizes <i>Ca</i> WRKY40a to regulate defense responses and stomatal immunity in pepper (<i>Capsicum annuum</i>). <i>Plant Cell</i> , 2022, 34, 1684-1708.	6.6	24
45	A Proteomic Approach Suggests Unbalanced Proteasome Functioning Induced by the Growth-Promoting Bacterium <i>Kosakonia radicincitans</i> in <i>Arabidopsis</i> . <i>Frontiers in Plant Science</i> , 2017, 8, 661.	3.6	11
46	Detecting functional groups of <i>Arabidopsis</i> mutants by metabolic profiling and evaluation of pleiotropic responses. <i>Frontiers in Plant Science</i> , 2011, 2, 82.	3.6	7
47	The <i>Xanthomonas</i> effector XopJ triggers a conditional hypersensitive response upon treatment of <i>N. benthamiana</i> leaves with salicylic acid. <i>Frontiers in Plant Science</i> , 2015, 6, 599.	3.6	7
48	Ubiquitin Proteasome Activity Measurement in Total Plant Extracts. <i>Bio-protocol</i> , 2017, 7, e2532.	0.4	7
49	Metabolic Engineering. <i>Biotechnology in Agriculture and Forestry</i> , 2010, , 199-219.	0.2	4