

# Uwe Sonnewald

## List of Publications by Year in descending order

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255  
papers

19,000  
citations

7568

77  
h-index

16650

123  
g-index

262  
all docs

262  
docs citations

262  
times ranked

15143  
citing authors

#	ARTICLE	IF	CITATIONS
1	PYRIMIDINE AND PURINE BIOSYNTHESIS AND DEGRADATION IN PLANTS. Annual Review of Plant Biology, 2006, 57, 805-836.	18.7	492
2	Evidence of the crucial role of sucrose synthase for sink strength using transgenic potato plants ( <i>Solanum tuberosum</i> L.). Plant Journal, 1995, 7, 97-107.	5.7	482
3	Simultaneous Application of Heat, Drought, and Virus to Arabidopsis Plants Reveals Significant Shifts in Signaling Networks. Plant Physiology, 2013, 162, 1849-1866.	4.8	446
4	The Stomatal Response to Reduced Relative Humidity Requires Guard Cell-Autonomous ABA Synthesis. Current Biology, 2013, 23, 53-57.	3.9	415
5	Both developmental and metabolic signals activate the promoter of a class I patatin gene. EMBO Journal, 1989, 8, 23-29.	7.8	370
6	Reprogramming a maize plant: transcriptional and metabolic changes induced by the fungal biotroph <i>Ustilago maydis</i> . Plant Journal, 2008, 56, 181-195.	5.7	328
7	A Small Decrease of Plastid Transketolase Activity in Antisense Tobacco Transformants Has Dramatic Effects on Photosynthesis and Phenylpropanoid Metabolism. Plant Cell, 2001, 13, 535-551.	6.6	304
8	Impact of Altered Gibberellin Metabolism on Biomass Accumulation, Lignin Biosynthesis, and Photosynthesis in Transgenic Tobacco Plants. Plant Physiology, 2004, 135, 254-265.	4.8	286
9	One of two different ADP-glucose pyrophosphorylase genes from potato responds strongly to elevated levels of sucrose. Molecular Genetics and Genomics, 1990, 224, 136-146.	2.4	259
10	An ethanol inducible gene switch for plants used to manipulate carbon metabolism. Nature Biotechnology, 1998, 16, 177-180.	17.5	251
11	Specific Roles of $\hat{\alpha}$ - and $\hat{\beta}$ -Tocopherol in Abiotic Stress Responses of Transgenic Tobacco. Plant Physiology, 2007, 143, 1720-1738.	4.8	236
12	A moderate decrease of plastid aldolase activity inhibits photosynthesis, alters the levels of sugars and starch, and inhibits growth of potato plants. Plant Journal, 1998, 14, 147-157.	5.7	233
13	Transgenic tobacco plants expressing yeast-derived invertase in either the cytosol, vacuole or apoplast: a powerful tool for studying sucrose metabolism and sink/source interactions. Plant Journal, 1991, 1, 95-106.	5.7	230
14	The nitrate and ammonium nitrate supply have a major influence on the response of photosynthesis, carbon metabolism, nitrogen metabolism and growth to elevated carbon dioxide in tobacco. Plant, Cell and Environment, 1999, 22, 1177-1199.	5.7	221
15	Regulation of Metabolism in Transgenic Plants. Annual Review of Plant Biology, 1995, 46, 341-368.	14.3	219
16	Differences and commonalities of plant responses to single and combined stresses. Plant Journal, 2017, 90, 839-855.	5.7	206
17	Inorganic pyrophosphate content and metabolites in potato and tobacco plants expressing <i>E. coli</i> pyrophosphatase in their cytosol. Planta, 1992, 188, 238-244.	3.2	205
18	Increased potato tuber size resulting from apoplastic expression of a yeast invertase. Nature Biotechnology, 1997, 15, 794-797.	17.5	197

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19	Combined expression of glucokinase and invertase in potato tubers leads to a dramatic reduction in starch accumulation and a stimulation of glycolysis. <i>Plant Journal</i> , 1998, 15, 109-118.	5.7	192
20	Ectopic expression of a tobacco invertase inhibitor homolog prevents cold-induced sweetening of potato tubers. <i>Nature Biotechnology</i> , 1999, 17, 708-711.	17.5	189
21	Manipulation of plant innate immunity and gibberellin as factor of compatibility in the mutualistic association of barley roots with <i>Piriformospora indica</i> . <i>Plant Journal</i> , 2009, 59, 461-474.	5.7	183
22	Production of Human Papillomavirus Type 16 Virus-Like Particles in Transgenic Plants. <i>Journal of Virology</i> , 2003, 77, 9211-9220.	3.4	176
23	Soluble acid invertase determines the hexose-to-sucrose ratio in cold-stored potato tubers. <i>Planta</i> , 1996, 198, 246-52.	3.2	173
24	Companion cell-specific inhibition of the potato sucrose transporter SUT1. <i>Plant, Cell and Environment</i> , 1996, 19, 1115-1123.	5.7	172
25	Maize Source Leaf Adaptation to Nitrogen Deficiency Affects Not Only Nitrogen and Carbon Metabolism But Also Control of Phosphate Homeostasis. <i>Plant Physiology</i> , 2012, 160, 1384-1406.	4.8	170
26	Regulation of potato tuber sprouting. <i>Planta</i> , 2014, 239, 27-38.	3.2	170
27	Systems Analysis of a Maize Leaf Developmental Gradient Redefines the Current C4 Model and Provides Candidates for Regulation. <i>Plant Cell</i> , 2011, 23, 4208-4220.	6.6	165
28	Cell Wall-Bound Invertase Limits Sucrose Export and Is Involved in Symptom Development and Inhibition of Photosynthesis during Compatible Interaction between Tomato and <i>Xanthomonas campestris</i> pv <i>vesicatoria</i> . <i>Plant Physiology</i> , 2008, 148, 1523-1536.	4.8	158
29	RNAi-Mediated Tocopherol Deficiency Impairs Photoassimilate Export in Transgenic Potato Plants. <i>Plant Physiology</i> , 2004, 135, 1256-1268.	4.8	157
30	Apoplasmic Expression of Yeast-Derived Invertase in Potato. <i>Plant Physiology</i> , 1992, 100, 301-308.	4.8	155
31	Reduction of the chloroplastic fructose-1,6-bisphosphatase in transgenic potato plants impairs photosynthesis and plant growth. <i>Plant Journal</i> , 1994, 6, 637-650.	5.7	155
32	Enhanced carbon dioxide leads to a modified diurnal rhythm of nitrate reductase activity in older plants, and a large stimulation of nitrate reductase activity and higher levels of amino acids in young tobacco plants. <i>Plant, Cell and Environment</i> , 1998, 21, 253-268.	5.7	154
33	Signaling events in plants: Stress factors in combination change the picture. <i>Environmental and Experimental Botany</i> , 2015, 114, 4-14.	4.2	151
34	Growth at elevated CO <sub>2</sub> concentrations leads to modified profiles of secondary metabolites in tobacco cv. SamsunNN and to increased resistance against infection with potato virus Y. <i>Plant, Cell and Environment</i> , 2006, 29, 126-137.	5.7	148
35	Reactivation of Meristem Activity and Sprout Growth in Potato Tubers Require Both Cytokinin and Gibberellin. <i>Plant Physiology</i> , 2011, 155, 776-796.	4.8	143
36	Spinach hexokinase I is located in the outer envelope membrane of plastids. <i>FEBS Letters</i> , 1999, 461, 13-18.	2.8	139

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37	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
38	Source-Sink Regulation Is Mediated by Interaction of an FT Homolog with a SWEET Protein in Potato. <i>Current Biology</i> , 2019, 29, 1178-1186.e6.	3.9	137
39	Analysis of the expression of potato uridinediphosphate-glucose pyrophosphorylase and its inhibition by antisense RNA. <i>Planta</i> , 1993, 190, 247-52.	3.2	133
40	Regulation of carbohydrate partitioning during the interaction of potato virus Y with tobacco. <i>Molecular Plant Pathology</i> , 2000, 1, 51-59.	4.2	128
41	HSP70 and Its Cochaperone CPIP Promote Potyvirus Infection in <i>Nicotiana benthamiana</i> by Regulating Viral Coat Protein Functions. <i>Plant Cell</i> , 2010, 22, 523-535.	6.6	125
42	Molecular analysis of carbon partitioning in solanaceous species. <i>Journal of Experimental Botany</i> , 1995, 46, 587-607.	4.8	124
43	Small changes in the activity of chloroplastic NADP+-dependent ferredoxin oxidoreductase lead to impaired plant growth and restrict photosynthetic activity of transgenic tobacco plants. <i>Plant Journal</i> , 2002, 29, 281-293.	5.7	124
44	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
45	Expression of <i>E. coli</i> inorganic pyrophosphatase in transgenic plants alters photoassimilate partitioning. <i>Plant Journal</i> , 1992, 2, 571-581.	5.7	122
46	Next-generation strategies for understanding and influencing source-sink relations in crop plants. <i>Current Opinion in Plant Biology</i> , 2018, 43, 63-70.	7.1	119
47	Salicylic acid-independent induction of pathogenesis-related protein transcripts by sugars is dependent on leaf developmental stage. <i>FEBS Letters</i> , 1996, 397, 239-244.	2.8	116
48	Cloning and expression analysis of a potato cDNA that encodes branching enzyme evidence for co-expression of starch biosynthetic genes. <i>Molecular Genetics and Genomics</i> , 1991, 230, 39-44.	2.4	115
49	Genes driving potato tuber initiation and growth: identification based on transcriptional changes using the POCL array. <i>Functional and Integrative Genomics</i> , 2008, 8, 329-340.	3.5	114
50	Transcriptome and metabolome profiling of field-grown transgenic barley lack induced differences but show cultivar-specific variances. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 6198-6203.	7.1	114
51	Overexpression of pyrophosphatase leads to increased sucrose degradation and starch synthesis, increased activities of enzymes for sucrose-starch interconversions, and increased levels of nucleotides in growing potato tubers. <i>Planta</i> , 1998, 205, 428-437.	3.2	113
52	Control of potato tuber sprouting. <i>Trends in Plant Science</i> , 2001, 6, 333-335.	8.8	111
53	Plant-microbe interactions to probe regulation of plant carbon metabolism. <i>Journal of Plant Physiology</i> , 2006, 163, 307-318.	3.5	110
54	Phloem-specific expression of pyrophosphatase inhibits long distance transport of carbohydrates and amino acids in tobacco plants. <i>Plant, Cell and Environment</i> , 1996, 19, 43-55.	5.7	109

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55	Metabolite profiling of barley flag leaves under drought and combined heat and drought stress reveals metabolic QTLs for metabolites associated with antioxidant defense. <i>Journal of Experimental Botany</i> , 2017, 68, 1697-1713.	4.8	109
56	Accumulation of hexoses in leaf vacuoles: Studies with transgenic tobacco plants expressing yeast-derived invertase in the cytosol, vacuole or apoplast. <i>Planta</i> , 1994, 194, 29.	3.2	107
57	Impaired photoassimilate partitioning caused by phloem-specific removal of pyrophosphate can be complemented by a phloem-specific cytosolic yeast-derived invertase in transgenic plants. <i>Plant Cell</i> , 1995, 7, 259-270.	6.6	107
58	Reduction of the cytosolic fructose-1,6-bisphosphatase in transgenic potato plants limits photosynthetic sucrose biosynthesis with no impact on plant growth and tuber yield. <i>Plant Journal</i> , 1996, 9, 671-681.	5.7	107
59	Synchronization of developmental, molecular and metabolic aspects of source-sink interactions. <i>Nature Plants</i> , 2020, 6, 55-66.	9.3	107
60	Molecular determinants of sink strength. <i>Current Opinion in Plant Biology</i> , 1998, 1, 207-216.	7.1	106
61	A Thermostable Xylanase from <i>Clostridium thermocellum</i> Expressed at High Levels in the Apoplast of Transgenic Tobacco Has No Detrimental Effects and Is Easily Purified. <i>Nature Biotechnology</i> , 1995, 13, 63-66.	17.5	103
62	Design of tomato fruits with reduced allergenicity by dsRNAi-mediated inhibition of ns-LTP (Lyc e 3) expression. <i>Plant Biotechnology Journal</i> , 2006, 4, 231-242.	8.3	102
63	AtHsp70 <sup>15</sup> -deficient Arabidopsis plants are characterized by reduced growth, a constitutive cytosolic protein response and enhanced resistance to TuMV. <i>Plant Journal</i> , 2011, 66, 983-995.	5.7	101
64	Adaptation of maize source leaf metabolism to stress related disturbances in carbon, nitrogen and phosphorus balance. <i>BMC Genomics</i> , 2013, 14, 442.	2.8	100
65	<i>Ustilago maydis</i> Infection Strongly Alters Organic Nitrogen Allocation in Maize and Stimulates Productivity of Systemic Source Leaves. <i>Plant Physiology</i> , 2009, 152, 293-308.	4.8	98
66	Genome-wide analysis of starch metabolism genes in potato ( <i>Solanum tuberosum</i> L.). <i>BMC Genomics</i> , 2017, 18, 37.	2.8	98
67	Vitamin E biosynthesis: biochemistry meets cell biology. <i>Trends in Plant Science</i> , 2003, 8, 6-8.	8.8	96
68	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
69	Systemic Acquired Resistance Mediated by the Ectopic Expression of Invertase: Possible Hexose Sensing in the Secretory Pathway. <i>Plant Cell</i> , 1996, 8, 793.	6.6	93
70	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
71	Molecular Approaches to Sink-Source Interactions. <i>Plant Physiology</i> , 1992, 99, 1267-1270.	4.8	88
72	Impact of elevated cytosolic and apoplastic invertase activity on carbon metabolism during potato tuber development. <i>Journal of Experimental Botany</i> , 2000, 51, 439-445.	4.8	86

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73	Reduced allergenicity of tomato fruits harvested from <i>Lycopersicon</i> silenced transgenic tomato plants. <i>Journal of Allergy and Clinical Immunology</i> , 2006, 118, 1176-1183.	2.9	86
74	High CO <sub>2</sub> -mediated down-regulation of photosynthetic gene transcripts is caused by accelerated leaf senescence rather than sugar accumulation. <i>FEBS Letters</i> , 2000, 479, 19-24.	2.8	85
75	Decreased expression of sucrose phosphate synthase strongly inhibits the water stress-induced synthesis of sucrose in growing potato tubers. <i>Plant Journal</i> , 1999, 19, 119-129.	5.7	84
76	Sugar Accumulation in Leaves of <i>Arabidopsis thaliana</i> Double Mutants Enhances Priming of the Salicylic Acid-Mediated Defense Response. <i>Frontiers in Plant Science</i> , 2017, 8, 1378.	3.6	83
77	Starches—from current models to genetic engineering. <i>Plant Biotechnology Journal</i> , 2013, 11, 223-232.	8.3	81
78	Expression of a luteoviral movement protein in transgenic plants leads to carbohydrate accumulation and reduced photosynthetic capacity in source leaves. <i>Plant Journal</i> , 1997, 12, 1045-1056.	5.7	80
79	Ectopic Expression of Constitutively Activated RACB in Barley Enhances Susceptibility to Powdery Mildew and Abiotic Stress. <i>Plant Physiology</i> , 2005, 139, 353-362.	4.8	80
80	Infection of maize leaves with <i>Ustilago maydis</i> prevents establishment of C4 photosynthesis. <i>Journal of Plant Physiology</i> , 2008, 165, 19-28.	3.5	80
81	Potato plants contain multiple forms of sucrose phosphate synthase, which differ in their tissue distributions, their levels during development, and their responses to low temperature. <i>Plant, Cell and Environment</i> , 1997, 20, 291-305.	5.7	79
82	Reconstitution of an active lactose carrier in vivo by simultaneous synthesis of two complementary protein fragments. <i>Journal of Bacteriology</i> , 1990, 172, 5374-5381.	2.2	78
83	Cloning and expression analysis of the plastidic fructose-1,6-bisphosphatase coding sequence from potato: circumstantial evidence for the import of hexoses into chloroplasts. <i>Planta</i> , 1992, 188, 7-12.	3.2	78
84	Manipulation of sink-source relations in transgenic plants. <i>Plant, Cell and Environment</i> , 1994, 17, 649-658.	5.7	78
85	Characterisation of the ATP-dependent phosphofructokinase gene family from <i>Arabidopsis thaliana</i> . <i>FEBS Letters</i> , 2007, 581, 2401-2410.	2.8	78
86	Evidence for expression level-dependent modulation of carbohydrate status and viral resistance by the potato leafroll virus movement protein in transgenic tobacco plants. <i>Plant Journal</i> , 2001, 28, 529-543.	5.7	77
87	Overexpression of a Cell Wall Enzyme Reduces Xyloglucan Depolymerization and Softening of Transgenic Tomato Fruits. <i>Journal of Agricultural and Food Chemistry</i> , 2010, 58, 5708-5713.	5.2	77
88	Tuber and Tuberous Root Development. <i>Annual Review of Plant Biology</i> , 2021, 72, 551-580.	18.7	77
89	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
90	Isolation and functional characterization of a novel plastidic hexokinase from <i>Nicotiana glauca</i> . <i>FEBS Letters</i> , 2005, 579, 827-831.	2.8	75

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91	Intracellular Trafficking of <i>Potato Leafroll Virus</i> Movement Protein in Transgenic <i>Arabidopsis</i> . <i>Traffic</i> , 2007, 8, 1205-1214.	2.7	75
92	A second L-type isozyme of potato glucan phosphorylase: cloning, antisense inhibition and expression analysis. <i>Plant Molecular Biology</i> , 1995, 27, 567-576.	3.9	74
93	The role of transient starch in acclimation to elevated atmospheric CO <sub>2</sub> . <i>FEBS Letters</i> , 1998, 429, 147-151.	2.8	74
94	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
95	Bioinspired Hybrid White Light-Emitting Diodes. <i>Advanced Materials</i> , 2015, 27, 5493-5498.	21.0	72
96	Targeting and glycosylation of patatin the major potato tuber protein in leaves of transgenic tobacco. <i>Planta</i> , 1989, 179, 171-180.	3.2	71
97	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
98	Flowering Time-Regulated Genes in Maize Include the Transcription Factor ZmMADS1. <i>Plant Physiology</i> , 2016, 172, 389-404.	4.8	70
99	Regulation of Arbuscular Mycorrhization by Carbon. The Symbiotic Interaction Cannot Be Improved by Increased Carbon Availability Accomplished by Root-Specifically Enhanced Invertase Activity. <i>Plant Physiology</i> , 2007, 143, 1827-1840.	4.8	67
100	Engineering of Metabolic Pathways by Artificial Enzyme Channels. <i>Frontiers in Bioengineering and Biotechnology</i> , 2015, 3, 168.	4.1	67
101	Xyloglucan endotransglucosylase and cell wall extensibility. <i>Journal of Plant Physiology</i> , 2011, 168, 196-203.	3.5	66
102	Regulation of Arbuscular Mycorrhization by Carbon. The Symbiotic Interaction Cannot Be Improved by Increased Carbon Availability Accomplished by Root-Specifically Enhanced Invertase Activity. <i>Plant Physiology</i> , 2007, 143, 1827-1840.	4.8	65
103	Simultaneous boosting of source and sink capacities doubles tuber starch yield of potato plants. <i>Plant Biotechnology Journal</i> , 2012, 10, 1088-1098.	8.3	65
104	Gene expression during tuber development in potato plants. <i>FEBS Letters</i> , 1990, 268, 334-338.	2.8	64
105	Solute accumulation and decreased photosynthesis in leaves of potato plants expressing yeast-derived invertase either in the apoplast, vacuole or cytosol. <i>Planta</i> , 1997, 202, 126-136.	3.2	64
106	A dual role of tobacco hexokinase 1 in primary metabolism and sugar sensing. <i>Plant, Cell and Environment</i> , 2013, 36, 1311-1327.	5.7	64
107	Comparative transcriptome analysis coupled to X-ray CT reveals sucrose supply and growth velocity as major determinants of potato tuber starch biosynthesis. <i>BMC Genomics</i> , 2010, 11, 93.	2.8	63
108	Amylases StAmy23, StBAM1 and StBAM9 regulate cold-induced sweetening of potato tubers in distinct ways. <i>Journal of Experimental Botany</i> , 2017, 68, 2317-2331.	4.8	62

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109	Sucrose synthase activity does not restrict glycolysis in roots of transgenic potato plants under hypoxic conditions. <i>Planta</i> , 1999, 210, 41-49.	3.2	60
110	Transgenic tobacco plants expressing antisense ferredoxin-NADP(H) reductase transcripts display increased susceptibility to photo-oxidative damage. <i>Plant Journal</i> , 2003, 35, 332-341.	5.7	60
111	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
112	Ä-amylase1 mutant <i>Arabidopsis</i> plants show improved drought tolerance due to reduced starch breakdown in guard cells. <i>Journal of Experimental Botany</i> , 2015, 66, 6059-6067.	4.8	59
113	Sucrose metabolism in cold-stored potato tubers with decreased expression of sucrose phosphate synthase. <i>Plant, Cell and Environment</i> , 1998, 21, 285-299.	5.7	58
114	Transgenic Flavonoid Tomato Intake Reduces C-Reactive Protein in Human C-Reactive Protein Transgenic Mice More Than Wild-Type Tomato. <i>Journal of Nutrition</i> , 2006, 136, 2331-2337.	2.9	58
115	Choline transporter-like 1 ( <i>CHER1</i> ) is crucial for plasmodesmata maturation in <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 2017, 89, 394-406.	5.7	58
116	Post-transcriptional Regulation of FLOWERING LOCUS T Modulates Heat-Dependent Source-Sink Development in Potato. <i>Current Biology</i> , 2019, 29, 1614-1624.e3.	3.9	58
117	Ethanol Vapor Is an Efficient Inducer of the alc Gene Expression System in Model and Crop Plant Species. <i>Plant Physiology</i> , 2002, 129, 943-948.	4.8	57
118	Tocopherol deficiency in transgenic tobacco ( <i>Nicotiana tabacum</i> L.) plants leads to accelerated senescence. <i>Plant, Cell and Environment</i> , 2009, 32, 144-157.	5.7	57
119	A simplified procedure for the subtractive cDNA cloning of photoassimilate-responding genes: isolation of cDNAs encoding a new class of pathogenesis-related proteins. <i>Plant Molecular Biology</i> , 1995, 29, 1027-1038.	3.9	56
120	Skin prick tests reveal stable and heritable reduction of allergenic potency of gene-silenced tomato fruits. <i>Journal of Allergy and Clinical Immunology</i> , 2006, 118, 711-718.	2.9	56
121	Target-based discovery of novel herbicides. <i>Current Opinion in Plant Biology</i> , 2004, 7, 219-225.	7.1	54
122	Regulation of Cell Wall-Bound Invertase in Pepper Leaves by <i>Xanthomonas campestris</i> pv. <i>vesicatoria</i> Type Three Effectors. <i>PLoS ONE</i> , 2012, 7, e51763.	2.5	54
123	The <i>Arabidopsis DCP2</i> gene is required for proper mRNA turnover and prevents transgene silencing in <i>Arabidopsis</i> . <i>Plant Journal</i> , 2012, 72, 368-377.	5.7	53
124	An integrated functional approach to dissect systemic responses in maize to arbuscular mycorrhizal symbiosis. <i>Plant, Cell and Environment</i> , 2015, 38, 1591-1612.	5.7	53
125	Cloning and expression analysis of sucrose-phosphate synthase from sugar beet ( <i>Beta vulgaris</i> L.). <i>Molecular Genetics and Genomics</i> , 1995, 247, 515-520.	2.4	52
126	Comparative analysis of abscisic acid content and starch degradation during storage of tubers harvested from different potato varieties. <i>Potato Research</i> , 2000, 43, 371-382.	2.7	52



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127	Strasburger â Lehrbuch der Pflanzenwissenschaften. , 2014, , .		52
128	The stress granule component G3BP is a novel interaction partner for the nuclear shuttle proteins of the nanovirus pea necrotic yellow dwarf virus and geminivirus abutilon mosaic virus. <i>Virus Research</i> , 2017, 227, 6-14.	2.2	52
129	A truncated version of an ADP-glucose pyrophosphorylase promoter from potato specifies guard cell-selective expression in transgenic plants.. <i>Plant Cell</i> , 1994, 6, 601-612.	6.6	51
130	Deciphering source and sink responses of potato plants (<i><sc>Solanum tuberosum</sc> L</i>.) to elevated temperatures. <i>Plant, Cell and Environment</i> , 2018, 41, 2600-2616.	5.7	51
131	Immunocytochemical localization of patatin, the major glycoprotein in potato ( <i>Solanum tuberosum</i> ) Tj ETQq1 1 0.784314 rgBT /Over	3.2	50
132	Molecular cloning, characterization and expression analysis of isoforms encoding tonoplast-bound proton-translocating inorganic pyrophosphatase in tobacco. <i>Plant Molecular Biology</i> , 1995, 29, 833-840.	3.9	49
133	Production of new/modified proteins in transgenic plants. <i>Current Opinion in Biotechnology</i> , 1999, 10, 163-168.	6.6	49
134	Improved Salt Tolerance of Transgenic Tobacco Expressing Apoplastic Yeast-Derived Invertase. <i>Plant and Cell Physiology</i> , 2001, 42, 245-249.	3.1	49
135	Identification of virulence genes in the corn pathogen <i>Colletotrichum graminicola</i> by <i>Agrobacterium tumefaciens</i> -mediated transformation. <i>Molecular Plant Pathology</i> , 2011, 12, 43-55.	4.2	49
136	Altered gene expression brought about by inter- and intracellularly formed hexoses and its possible implications for plant-pathogen interactions. <i>Journal of Plant Research</i> , 1998, 111, 323-328.	2.4	48
137	Expression of mutant patatin protein in transgenic tobacco plants: role of glycans and intracellular location.. <i>Plant Cell</i> , 1990, 2, 345-355.	6.6	47
138	Transgenic potato plants with strongly decreased expression of pyrophosphate:fructose-6-phosphate phosphotransferase show no visible phenotype and only minor changes in metabolic fluxes in their tubers. <i>Planta</i> , 1993, 192, 16.	3.2	47
139	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
140	Subtle Regulation of Potato Acid Invertase Activity by a Protein Complex of Invertase, Invertase Inhibitor, and SUCROSE NONFERMENTING1-RELATED PROTEIN KINASE. <i>Plant Physiology</i> , 2015, 168, 1807-1819.	4.8	47
141	Chloroplast Redox Status Modulates Genome-Wide Plant Responses during the Non-host Interaction of Tobacco with the Hemibiotrophic Bacterium <i>Xanthomonas campestris</i> pv. <i>vesicatoria</i> . <i>Frontiers in Plant Science</i> , 2017, 8, 1158.	3.6	47
142	Impaired Photoassimilate Partitioning Caused by Phloem-Specific Removal of Pyrophosphate Can Be Complemented by a Phloem-Specific Cytosolic Yeast-Derived Invertase in Transgenic Plants. <i>Plant Cell</i> , 1995, 7, 259.	6.6	46
143	2-Deoxyglucose resistance: a novel selection marker for plant transformation. <i>Molecular Breeding</i> , 2001, 7, 221-227.	2.1	46
144	In plants the alc gene expression system responds more rapidly following induction with acetaldehyde than with ethanol. <i>FEBS Letters</i> , 2003, 535, 136-140.	2.8	46

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