

Regina Feil

List of Publications by Year in descending order

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89
papers

8,277
citations

36303

51
h-index

49909

87
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99
all docs

99
docs citations

99
times ranked

7943
citing authors

#	ARTICLE	IF	CITATIONS
1	Recruitment of an ancient branching program to suppress carpel development in maize flowers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	18
2	Rising rates of starch degradation during daytime and trehalose 6-phosphate optimize carbon availability. <i>Plant Physiology</i> , 2022, 189, 1976-2000.	4.8	18
3	Sucrose synthases are not involved in starch synthesis in Arabidopsis leaves. <i>Nature Plants</i> , 2022, 8, 574-582.	9.3	21
4	Trehalose 6-phosphate promotes seed filling by activating auxin biosynthesis. <i>New Phytologist</i> , 2021, 229, 1553-1565.	7.3	67
5	Installation of C ₄ photosynthetic pathway enzymes in rice using a single construct. <i>Plant Biotechnology Journal</i> , 2021, 19, 575-588.	8.3	78
6	Regulation of shoot branching in arabidopsis by trehalose 6-phosphate. <i>New Phytologist</i> , 2021, 229, 2135-2151.	7.3	95
7	Phytochromes control metabolic flux, and their action at the seedling stage determines adult plant biomass. <i>Journal of Experimental Botany</i> , 2021, 72, 3263-3278.	4.8	6
8	Expression of a Bacterial Trehalose-6-phosphate Synthase otsA Increases Oil Accumulation in Plant Seeds and Vegetative Tissues. <i>Frontiers in Plant Science</i> , 2021, 12, 656962.	3.6	12
9	Impact of the SnRK1 protein kinase on sucrose homeostasis and the transcriptome during the diel cycle. <i>Plant Physiology</i> , 2021, 187, 1357-1373.	4.8	39
10	Perturbations in plant energy homeostasis prime lateral root initiation via SnRK1-bZIP63-ARF19 signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	34
11	Restriction of cytosolic sucrose hydrolysis profoundly alters development, metabolism, and gene expression in Arabidopsis roots. <i>Journal of Experimental Botany</i> , 2021, 72, 1850-1863.	4.8	14
12	Genetic manipulation of trehalose 6-phosphate synthase results in changes in the soluble sugar profile in transgenic sugarcane stems. <i>Plant Direct</i> , 2021, 5, e358.	1.9	12
13	AKIN1 ² , a regulatory subunit of SnRK1, regulates organic acid metabolism and acts as a global regulator of genes involved in carbon, lipid and nitrogen metabolism. <i>Journal of Experimental Botany</i> , 2020, 71, 1010-1028.	4.8	11
14	Carbon starvation reduces carbohydrate and anthocyanin accumulation in red-fleshed fruit via trehalose 6-phosphate and MYB27. <i>Plant, Cell and Environment</i> , 2020, 43, 819-835.	5.7	33
15	Proteomic and metabolomic profiling underlines the stage- and time-dependent effects of high temperature on grape berry metabolism. <i>Journal of Integrative Plant Biology</i> , 2020, 62, 1132-1158.	8.5	45
16	The trehalose 6-phosphate pathway impacts vegetative phase change in <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 2020, 104, 768-780.	5.7	45
17	Functional Features of TREHALOSE-6-PHOSPHATE SYNTHASE1, an Essential Enzyme in Arabidopsis[OPEN]. <i>Plant Cell</i> , 2020, 32, 1949-1972.	6.6	69
18	Protein Phosphorylation Dynamics Under Carbon/Nitrogen-Nutrient Stress and Identification of a Cell Death-Related Receptor-Like Kinase in Arabidopsis. <i>Frontiers in Plant Science</i> , 2020, 11, 377.	3.6	28

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19	Hierarchical clustering reveals unique features in the diel dynamics of metabolites in the CAM orchid <i>Phalaenopsis</i> . <i>Journal of Experimental Botany</i> , 2019, 70, 3269-3281.	4.8	11
20	Relationship between irradiance and levels of Calvin-Benson cycle and other intermediates in the model eudicot <i>Arabidopsis</i> and the model monocot rice. <i>Journal of Experimental Botany</i> , 2019, 70, 5809-5825.	4.8	23
21	The regulatory landscape of a core maize domestication module controlling bud dormancy and growth repression. <i>Nature Communications</i> , 2019, 10, 3810.	12.8	116
22	Nitrate acts at the <i>Arabidopsis thaliana</i> shoot apical meristem to regulate flowering time. <i>New Phytologist</i> , 2019, 223, 814-827.	7.3	52
23	Mal de Cuarto virus infection causes hormone imbalance and sugar accumulation in wheat leaves. <i>BMC Plant Biology</i> , 2019, 19, 112.	3.6	18
24	Control of meristem determinacy by trehalose 6-phosphate phosphatases is uncoupled from enzymatic activity. <i>Nature Plants</i> , 2019, 5, 352-357.	9.3	70
25	Multiple circadian clock outputs regulate diel turnover of carbon and nitrogen reserves. <i>Plant, Cell and Environment</i> , 2019, 42, 549-573.	5.7	49
26	The Role of Abscisic Acid Signaling in Maintaining the Metabolic Balance Required for <i>Arabidopsis</i> Growth under Nonstress Conditions. <i>Plant Cell</i> , 2019, 31, 84-105.	6.6	84
27	Dose-dependent interactions between two loci trigger altered shoot growth in BC-Krotzenburg (Kro) hybrids of <i>Arabidopsis thaliana</i> . <i>New Phytologist</i> , 2018, 217, 392-406.	7.3	12
28	Feedback regulation by trehalose 6-phosphate slows down starch mobilization below the rate that would exhaust starch reserves at dawn in <i>Arabidopsis</i> leaves. <i>Plant Direct</i> , 2018, 2, e00078.	1.9	35
29	Trehalose 6-Phosphate Positively Regulates Fatty Acid Synthesis by Stabilizing WRINKLED1. <i>Plant Cell</i> , 2018, 30, 2616-2627.	6.6	156
30	Quantification of Soluble Sugars and Sugar Alcohols by LC-MS/MS. <i>Methods in Molecular Biology</i> , 2018, 1778, 87-100.	0.9	14
31	Response of <i>Arabidopsis</i> primary metabolism and circadian clock to low night temperature in a natural light environment. <i>Journal of Experimental Botany</i> , 2018, 69, 4881-4895.	4.8	73
32	The signal metabolite trehalose 6-phosphate inhibits the sucrolytic activity of sucrose synthase from developing castor beans. <i>FEBS Letters</i> , 2018, 592, 2525-2532.	2.8	26
33	<i>Xanthomonas citri</i> ssp. <i>citri</i> requires the outer membrane porin OprB for maximal virulence and biofilm formation. <i>Molecular Plant Pathology</i> , 2017, 18, 720-733.	4.2	17
34	Trehalose 6-phosphate signal is closely related to sorbitol in apple fruit (<i>Malus domestica</i>)	1.2	17
35	Starch Synthase 4 and Plastidal Phosphorylase Differentially Affect Starch Granule Number and Morphology. <i>Plant Physiology</i> , 2017, 174, 73-85.	4.8	41
36	Getting back to nature: a reality check for experiments in controlled environments. <i>Journal of Experimental Botany</i> , 2017, 68, 4463-4477.	4.8	89

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37	Trehalose 6-phosphate is involved in triggering axillary bud outgrowth in garden pea (<i>Pisum</i>) Tj ETQq1 1 0.784314 rgBT /Overloc 147	5.7	147
38	Leaf Starch Turnover Occurs in Long Days and in Falling Light at the End of the Day. <i>Plant Physiology</i> , 2017, 174, 2199-2212.	4.8	80
39	The role of Tre6P and SnRK1 in maize early kernel development and events leading to stress-induced kernel abortion. <i>BMC Plant Biology</i> , 2017, 17, 74.	3.6	53
40	Trehalose 6-phosphate coordinates organic and amino acid metabolism with carbon availability. <i>Plant Journal</i> , 2016, 85, 410-423.	5.7	176
41	Light-dependent activation of phosphoenolpyruvate carboxylase by reversible phosphorylation in cluster roots of white lupin plants: diurnal control in response to photosynthate supply. <i>Annals of Botany</i> , 2016, 118, 637-643.	2.9	11
42	FUM2, a Cytosolic Fumarase, Is Essential for Acclimation to Low Temperature in <i>Arabidopsis thaliana</i> . <i>Plant Physiology</i> , 2016, 172, 118-127.	4.8	48
43	The interplay between carbon availability and growth in different zones of the growing maize leaf. <i>Plant Physiology</i> , 2016, 172, pp.00994.2016.	4.8	24
44	Metabolic and Transcriptional Analysis of Durum Wheat Responses to Elevated CO ₂ at Low and High Nitrate Supply. <i>Plant and Cell Physiology</i> , 2016, 57, 2133-2146.	3.1	67
45	Time-Series Transcriptomics Reveals That <i>AGAMOUS-LIKE22</i> Affects Primary Metabolism and Developmental Processes in Drought-Stressed <i>Arabidopsis</i> . <i>Plant Cell</i> , 2016, 28, 345-366.	6.6	92
46	Acclimation of metabolism to light in <i>Arabidopsis thaliana</i> : the glucose 6-phosphate/phosphate translocator <i>GPT2</i> directs metabolic acclimation. <i>Plant, Cell and Environment</i> , 2015, 38, 1404-1417.	5.7	79
47	The dual nature of trehalose in citrus canker disease: a virulence factor for <i>Xanthomonas citri</i> subsp. <i>citri</i> and a trigger for plant defence responses. <i>Journal of Experimental Botany</i> , 2015, 66, 2795-2811.	4.8	47
48	Trehalose-6-phosphate synthase 1 is not the only active TPS in <i>Arabidopsis thaliana</i> . <i>Biochemical Journal</i> , 2015, 466, 283-290.	3.7	77
49	Transcription Factor <i>Arabidopsis</i> Activating Factor1 Integrates Carbon Starvation Responses with Trehalose Metabolism. <i>Plant Physiology</i> , 2015, 169, 379-390.	4.8	62
50	The trehalose pathway in maize: conservation and gene regulation in response to the diurnal cycle and extended darkness. <i>Journal of Experimental Botany</i> , 2014, 65, 5959-5973.	4.8	52
51	Genetic Evidence That Chain Length and Branch Point Distributions Are Linked Determinants of Starch Granule Formation in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2014, 165, 1457-1474.	4.8	46
52	Regulatory Properties of ADP Glucose Pyrophosphorylase Are Required for Adjustment of Leaf Starch Synthesis in Different Photoperiods. <i>Plant Physiology</i> , 2014, 166, 1733-1747.	4.8	78
53	The sucrose-trehalose 6-phosphate (Tre6P) nexus: specificity and mechanisms of sucrose signalling by Tre6P. <i>Journal of Experimental Botany</i> , 2014, 65, 1051-1068.	4.8	326
54	<i>Arabidopsis</i> Coordinates the Diurnal Regulation of Carbon Allocation and Growth across a Wide Range of Photoperiods. <i>Molecular Plant</i> , 2014, 7, 137-155.	8.3	244

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55	Dissecting the Subcellular Compartmentation of Proteins and Metabolites in Arabidopsis Leaves Using Non-aqueous Fractionation. <i>Molecular and Cellular Proteomics</i> , 2014, 13, 2246-2259.	3.8	58
56	A fluorometric assay for trehalose in the picomole range. <i>Plant Methods</i> , 2013, 9, 21.	4.3	59
57	Regulation of Flowering by Trehalose-6-Phosphate Signaling in <i>Arabidopsis thaliana</i> . <i>Science</i> , 2013, 339, 704-707.	12.6	571
58	Feedback Inhibition of Starch Degradation in Arabidopsis Leaves Mediated by Trehalose 6-Phosphate. <i>Plant Physiology</i> , 2013, 163, 1142-1163.	4.8	167
59	Overexpression of the Trehalase Gene <i>AtTRE1</i> Leads to Increased Drought Stress Tolerance in Arabidopsis and Is Involved in Abscisic Acid-Induced Stomatal Closure. <i>Plant Physiology</i> , 2013, 161, 1158-1171.	4.8	117
60	Metabolic profiling reveals coordinated switches in primary carbohydrate metabolism in grape berry (<i>Vitis vinifera</i> L.), a non-climacteric fleshy fruit. <i>Journal of Experimental Botany</i> , 2013, 64, 1345-1355.	4.8	125
61	Loss of Starch Granule Initiation Has a Deleterious Effect on the Growth of Arabidopsis Plants Due to an Accumulation of ADP-Glucose. <i>Plant Physiology</i> , 2013, 163, 75-85.	4.8	68
62	Starch synthase 4 is essential for coordination of starch granule formation with chloroplast division during Arabidopsis leaf expansion. <i>New Phytologist</i> , 2013, 200, 1064-1075.	7.3	93
63	Metabolic Fluxes in an Illuminated <i>Arabidopsis</i> Rosette. <i>Plant Cell</i> , 2013, 25, 694-714.	6.6	303
64	Misexpression of a Chloroplast Aspartyl Protease Leads to Severe Growth Defects and Alters Carbohydrate Metabolism in Arabidopsis. <i>Plant Physiology</i> , 2012, 160, 1237-1250.	4.8	34
65	Expansive Evolution of the TREHALOSE-6-PHOSPHATE PHOSPHATASE Gene Family in Arabidopsis. <i>Plant Physiology</i> , 2012, 160, 884-896.	4.8	120
66	Trehalose metabolism is activated upon chilling in grapevine and might participate in Burkholderia phytofirmans induced chilling tolerance. <i>Planta</i> , 2012, 236, 355-369.	3.2	69
67	<i>Burkholderia phytofirmans</i> PsjN Acclimates Grapevine to Cold by Modulating Carbohydrate Metabolism. <i>Molecular Plant-Microbe Interactions</i> , 2012, 25, 496-504.	2.6	199
68	Mutagenesis of cysteine ⁸¹ prevents dimerization of the APS1 subunit of ADP-glucose pyrophosphorylase and alters diurnal starch turnover in <i>Arabidopsis thaliana</i> leaves. <i>Plant Journal</i> , 2012, 70, 231-242.	5.7	75
69	Fructokinase is required for carbon partitioning to cellulose in aspen wood. <i>Plant Journal</i> , 2012, 70, 967-977.	5.7	64
70	Seed-specific elevation of non-symbiotic hemoglobin AtHb1: beneficial effects and underlying molecular networks in Arabidopsis thaliana. <i>BMC Plant Biology</i> , 2011, 11, 48.	3.6	53
71	RETINOBLASTOMA-RELATED PROTEIN controls the transition to autotrophic plant development. <i>Development (Cambridge)</i> , 2011, 138, 2977-2986.	2.5	53
72	Sucrose non-fermenting kinase 1 (SnRK1) coordinates metabolic and hormonal signals during pea cotyledon growth and differentiation. <i>Plant Journal</i> , 2010, 61, 324-338.	5.7	122

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73	AtTPS1-mediated trehalose 6-phosphate synthesis is essential for embryogenic and vegetative growth and responsiveness to ABA in germinating seeds and stomatal guard cells. <i>Plant Journal</i> , 2010, 64, no-no.	5.7	173
74	Use of reverse-phase liquid chromatography, linked to tandem mass spectrometry, to profile the Calvin cycle and other metabolic intermediates in <i>Arabidopsis</i> rosettes at different carbon dioxide concentrations. <i>Plant Journal</i> , 2009, 59, 826-839.	5.7	216
75	Normal growth of <i>Arabidopsis</i> requires cytosolic invertase but not sucrose synthase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 13124-13129.	7.1	349
76	Sugar-induced increases in trehalose 6-phosphate are correlated with redox activation of ADPglucose pyrophosphorylase and higher rates of starch synthesis in <i>Arabidopsis thaliana</i> . <i>Biochemical Journal</i> , 2006, 397, 139-148.	3.7	518
77	Impact of the C?N status on the amino acid profile in tobacco source leaves. <i>Plant, Cell and Environment</i> , 2006, 29, 2055-2076.	5.7	85
78	Regulation of secondary metabolism by the carbon-nitrogen status in tobacco: nitrate inhibits large sectors of phenylpropanoid metabolism. <i>Plant Journal</i> , 2006, 46, 533-548.	5.7	324
79	Restriction of nyctinastic movements and application of tensile forces to leaves affects diurnal patterns of expansion growth. <i>Functional Plant Biology</i> , 2002, 29, 1247.	2.1	31
80	Title is missing!. , 1999, 215, 143-153.		49
81	Relationship between NH_4^+ Assimilation Rate and <i>in Vivo</i> Phosphoenolpyruvate Carboxylase Activity. <i>Plant Physiology</i> , 1990, 94, 284-290.	4.8	94
82	Regulation of Carbon Partitioning to Respiration during Dark Ammonium Assimilation by the Green Alga <i>Selenastrum minutum</i> . <i>Plant Physiology</i> , 1990, 93, 166-175.	4.8	74
83	Anaerobic Metabolism in the N-Limited Green Alga <i>Selenastrum minutum</i> . <i>Plant Physiology</i> , 1990, 94, 1116-1123.	4.8	43
84	Independent changes of inorganic pyrophosphate and the AT/ADP or UTP/UDP ratios in plant cell suspension cultures. <i>Plant Science</i> , 1990, 66, 59-63.	3.6	73
85	Reduced-activity mutants of phosphoglucose isomerase in the cytosol and chloroplast of <i>Clarkia xantiana</i> . <i>Planta</i> , 1989, 178, 110-122.	3.2	96
86	Short-term water stress leads to a stimulation of sucrose synthesis by activating sucrose-phosphate synthase. <i>Planta</i> , 1989, 177, 535-546.	3.2	176
87	Response of photosynthetic electron transport and carbon metabolism to a sudden decrease of irradiance in the saturating or the limiting range. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1989, 973, 241-249.	1.0	19
88	Fluoride leads to an increase of inorganic pyrophosphate and an inhibition of photosynthetic sucrose synthesis in spinach leaves. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1989, 973, 263-271.	1.0	60
89	Coarse control of sucrose-phosphate synthase in leaves: Alterations of the kinetic properties in response to the rate of photosynthesis and the accumulation of sucrose. <i>Planta</i> , 1988, 174, 217-230.	3.2	281