

Mark Stitt

List of Publications by Year in descending order

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Version: 2024-02-01

177
papers

31,407
citations

3919

88
h-index

4628

170
g-index

190
all docs

190
docs citations

190
times ranked

22297
citing authors

#	ARTICLE	IF	CITATIONS
1	How Stress Affects Your Budget€”Stress Impacts on Starch Metabolism. <i>Frontiers in Plant Science</i> , 2022, 13, 774060.	1.7	15
2	Metabolic profiles in C3, C3â€C4 intermediate, C4-like, and C4 species in the genus <i>Flaveria</i> . <i>Journal of Experimental Botany</i> , 2022, 73, 1581-1601.	2.4	25
3	Carbon flux through photosynthesis and central carbon metabolism show distinct patterns between algae, C3 and C4 plants. <i>Nature Plants</i> , 2022, 8, 78-91.	4.7	49
4	Rising rates of starch degradation during daytime and trehalose 6-phosphate optimize carbon availability. <i>Plant Physiology</i> , 2022, 189, 1976-2000.	2.3	18
5	Sucrose synthases are not involved in starch synthesis in <i>Arabidopsis</i> leaves. <i>Nature Plants</i> , 2022, 8, 574-582.	4.7	21
6	The circadian clock mutant <i>lhy cca1 elf3</i> paces starch mobilization to dawn despite severely disrupted circadian clock function. <i>Plant Physiology</i> , 2022, 189, 2332-2356.	2.3	4
7	The <i>Arabidopsis</i> Framework Model version 2 predicts the organism-level effects of circadian clock gene mis-regulation. <i>In Silico Plants</i> , 2022, 4, .	0.8	2
8	Point mutations that boost aromatic amino acid production and CO ₂ assimilation in plants. <i>Science Advances</i> , 2022, 8, .	4.7	7
9	¹³ CO ₂ labeling kinetics in maize reveal impaired efficiency of C4 photosynthesis under low irradiance. <i>Plant Physiology</i> , 2022, 190, 280-304.	2.3	11
10	Installation of C ₄ photosynthetic pathway enzymes in rice using a single construct. <i>Plant Biotechnology Journal</i> , 2021, 19, 575-588.	4.1	78
11	Regulation of shoot branching in <i>Arabidopsis</i> by trehalose 6-phosphate. <i>New Phytologist</i> , 2021, 229, 2135-2151.	3.5	95
12	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.	2.4	6
13	Assessing Protein Synthesis and Degradation Rates in <i>Arabidopsis thaliana</i> Using Amino Acid Analysis. <i>Current Protocols</i> , 2021, 1, e114.	1.3	2
14	Targeted metabolite profiling as a top-down approach to uncover interspecies diversity and identify key conserved operational features in the Calvinâ€Benson cycle. <i>Journal of Experimental Botany</i> , 2021, 72, 5961-5986.	2.4	16
15	Impact of the SnRK1 protein kinase on sucrose homeostasis and the transcriptome during the diel cycle. <i>Plant Physiology</i> , 2021, 187, 1357-1373.	2.3	39
16	Topology of the redox network during induction of photosynthesis as revealed by time-resolved proteomics in tobacco. <i>Science Advances</i> , 2021, 7, eabi8307.	4.7	27
17	A Partial C4 Photosynthetic Biochemical Pathway in Rice. <i>Frontiers in Plant Science</i> , 2020, 11, 564463.	1.7	28
18	Multi-omics reveals mechanisms of total resistance to extreme illumination of a desert alga. <i>Nature Plants</i> , 2020, 6, 1031-1043.	4.7	33

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19	Overexpression of Sedoheptulose-1,7-Bisphosphatase Enhances Photosynthesis in <i>Chlamydomonas reinhardtii</i> and Has No Effect on the Abundance of Other Calvin-Benson Cycle Enzymes. <i>Frontiers in Plant Science</i> , 2020, 11, 868.	1.7	41
20	Synchronization of developmental, molecular and metabolic aspects of source-sink interactions. <i>Nature Plants</i> , 2020, 6, 55-66.	4.7	107
21	Metabolic profiles of six African cultivars of cassava (<i>Manihot esculenta</i> Crantz) highlight bottlenecks of root yield. <i>Plant Journal</i> , 2020, 102, 1202-1219.	2.8	27
22	Functional Features of TREHALOSE-6-PHOSPHATE SYNTHASE1, an Essential Enzyme in <i>Arabidopsis</i> [OPEN]. <i>Plant Cell</i> , 2020, 32, 1949-1972.	3.1	69
23	Protein Phosphorylation Dynamics Under Carbon/Nitrogen-Nutrient Stress and Identification of a Cell Death-Related Receptor-Like Kinase in <i>Arabidopsis</i> . <i>Frontiers in Plant Science</i> , 2020, 11, 377.	1.7	28
24	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.	2.4	23
25	Response of the Circadian Clock and Diel Starch Turnover to One Day of Low Light or Low CO ₂ . <i>Plant Physiology</i> , 2019, 179, 1457-1478.	2.3	52
26	Engineering Strategies to Boost Crop Productivity by Cutting Respiratory Carbon Loss. <i>Plant Cell</i> , 2019, 31, 297-314.	3.1	86
27	Modeling Protein Destiny in Developing Fruit. <i>Plant Physiology</i> , 2019, 180, 1709-1724.	2.3	33
28	MapMan4: A Refined Protein Classification and Annotation Framework Applicable to Multi-Omics Data Analysis. <i>Molecular Plant</i> , 2019, 12, 879-892.	3.9	353
29	Metabolite profiles reveal interspecific variation in operation of the Calvin-Benson cycle in both C4 and C3 plants. <i>Journal of Experimental Botany</i> , 2019, 70, 1843-1858.	2.4	47
30	Cassava Metabolomics and Starch Quality. <i>Current Protocols in Plant Biology</i> , 2019, 4, e20102.	2.8	16
31	Multiple circadian clock outputs regulate diel turnover of carbon and nitrogen reserves. <i>Plant, Cell and Environment</i> , 2019, 42, 549-573.	2.8	49
32	Photoperiodic control of the <i>Arabidopsis</i> proteome reveals a translational coincidence mechanism. <i>Molecular Systems Biology</i> , 2018, 14, e7962.	3.2	74
33	Carbon Supply and the Regulation of Cell Wall Synthesis. <i>Molecular Plant</i> , 2018, 11, 75-94.	3.9	158
34	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.	0.8	35
35	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.	2.4	73
36	Effects of microcompartmentation on flux distribution and metabolic pools in <i>Chlamydomonas reinhardtii</i> chloroplasts. <i>ELife</i> , 2018, 7, .	2.8	37

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37	Parallel analysis of <i>Arabidopsis</i> circadian clock mutants reveals different scales of transcriptome and proteome regulation. <i>Open Biology</i> , 2017, 7, 160333.	1.5	52
38	Growth rate correlates negatively with protein turnover in <i>Arabidopsis</i> accessions. <i>Plant Journal</i> , 2017, 91, 416-429.	2.8	58
39	Photosynthate partitioning to starch in <i>Arabidopsis thaliana</i> is insensitive to light intensity but sensitive to photoperiod due to a restriction on growth in the light in short photoperiods. <i>Plant, Cell and Environment</i> , 2017, 40, 2608-2627.	2.8	82
40	Cellulose Synthesis and Cell Expansion Are Regulated by Different Mechanisms in Growing <i>Arabidopsis Hypocotyls</i> . <i>Plant Cell</i> , 2017, 29, 1305-1315.	3.1	67
41	Circadian, Carbon, and Light Control of Expansion Growth and Leaf Movement. <i>Plant Physiology</i> , 2017, 174, 1949-1968.	2.3	39
42	The Photorespiratory Metabolite 2-Phosphoglycolate Regulates Photosynthesis and Starch Accumulation in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2017, 29, 2537-2551.	3.1	132
43	Genome-Wide Association Mapping Reveals That Specific and Pleiotropic Regulatory Mechanisms Fine-Tune Central Metabolism and Growth in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2017, 29, 2349-2373.	3.1	32
44	Getting back to nature: a reality check for experiments in controlled environments. <i>Journal of Experimental Botany</i> , 2017, 68, 4463-4477.	2.4	89
45	Trehalose 6-phosphate is involved in triggering axillary bud outgrowth in garden pea (<i>Pisum</i>) Tj ETQq1 1 0.784314 rgBT /Overloc 2.8 147	2.8	147
46	Omics-based hybrid prediction in maize. <i>Theoretical and Applied Genetics</i> , 2017, 130, 1927-1939.	1.8	90
47	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.	2.3	80
48	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.	1.6	53
49	Spatially resolved metabolic analysis reveals a central role for transcriptional control in carbon allocation to wood. <i>Journal of Experimental Botany</i> , 2017, 68, 3529-3539.	2.4	15
50	Metabolite pools and carbon flow during C ₄ photosynthesis in maize: ¹³ CO ₂ labeling kinetics and cell type fractionation. <i>Journal of Experimental Botany</i> , 2017, 68, 283-298.	2.4	104
51	Crops In Silico: Generating Virtual Crops Using an Integrative and Multi-scale Modeling Platform. <i>Frontiers in Plant Science</i> , 2017, 8, 786.	1.7	102
52	Correlation-Based Network Analysis of Metabolite and Enzyme Profiles Reveals a Role of Citrate Biosynthesis in Modulating N and C Metabolism in <i>Zea mays</i> . <i>Frontiers in Plant Science</i> , 2016, 7, 1022.	1.7	20
53	Temporal kinetics of the transcriptional response to carbon depletion and sucrose readdition in <i>Arabidopsis</i> seedlings. <i>Plant, Cell and Environment</i> , 2016, 39, 768-786.	2.8	37
54	Trehalose 6-phosphate coordinates organic and amino acid metabolism with carbon availability. <i>Plant Journal</i> , 2016, 85, 410-423.	2.8	176

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55	50 years of Arabidopsis research: highlights and future directions. <i>New Phytologist</i> , 2016, 209, 921-944.	3.5	186
56	Plants <i>in silico</i> : why, why now and what? an integrative platform for plant systems biology research. <i>Plant, Cell and Environment</i> , 2016, 39, 1049-1057.	2.8	66
57	A repeat protein links Rubisco to form the eukaryotic carbon-concentrating organelle. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 5958-5963.	3.3	196
58	The interplay between carbon availability and growth in different zones of the growing maize leaf. <i>Plant Physiology</i> , 2016, 172, pp.00994.2016.	2.3	24
59	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.	1.5	67
60	Photoperiod-dependent changes in the phase of core clock transcripts and global transcriptional outputs at dawn and dusk in <i>Arabidopsis</i> . <i>Plant, Cell and Environment</i> , 2016, 39, 1955-1981.	2.8	60
61	Allelic differences in a vacuolar invertase affect <i>Arabidopsis</i> growth at early plant development. <i>Journal of Experimental Botany</i> , 2016, 67, 4091-4103.	2.4	20
62	Reproductive failure in <i>Arabidopsis thaliana</i> under transient carbohydrate limitation: flowers and very young siliques are jettisoned and the meristem is maintained to allow successful resumption of reproductive growth. <i>Plant, Cell and Environment</i> , 2016, 39, 745-767.	2.8	34
63	Defining the robust behaviour of the plant clock gene circuit with absolute RNA timeseries and open infrastructure. <i>Open Biology</i> , 2015, 5, 150042.	1.5	42
64	Phytyping ^{4D} : a light-field imaging system for non-invasive and accurate monitoring of spatio-temporal plant growth. <i>Plant Journal</i> , 2015, 82, 693-706.	2.8	97
65	Quantifying Protein Synthesis and Degradation in <i>Arabidopsis</i> by Dynamic ¹³ CO ₂ Labeling and Analysis of Enrichment in Individual Amino Acids in Their Free Pools and in Protein. <i>Plant Physiology</i> , 2015, 168, 74-93.	2.3	132
66	A long photoperiod relaxes energy management in <i>Arabidopsis</i> leaf six. <i>Current Plant Biology</i> , 2015, 2, 34-45.	2.3	27
67	Synthesis and Use of Stable-Isotope-Labeled Internal Standards for Quantification of Phosphorylated Metabolites by LC-MS/MS. <i>Analytical Chemistry</i> , 2015, 87, 6896-6904.	3.2	66
68	Genome-Wide Association of Carbon and Nitrogen Metabolism in the Maize Nested Association Mapping Population. <i>Plant Physiology</i> , 2015, 168, 575-583.	2.3	80
69	Comparative transcriptional profiling analysis of developing melon (<i>Cucumis melo</i> L.) fruit from climacteric and non-climacteric varieties. <i>BMC Genomics</i> , 2015, 16, 440.	1.2	62
70	Relationship between starch degradation and carbon demand for maintenance and growth in <i>Arabidopsis thaliana</i> in different irradiance and temperature regimes. <i>Plant, Cell and Environment</i> , 2015, 38, 157-171.	2.8	86
71	Multiscale digital <i>Arabidopsis</i> predicts individual organ and whole-organism growth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E4127-36.	3.3	88
72	Association Mapping across Numerous Traits Reveals Patterns of Functional Variation in Maize. <i>PLoS Genetics</i> , 2014, 10, e1004845.	1.5	171

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73	Lipid Biosynthesis and Protein Concentration Respond Uniquely to Phosphate Supply during Leaf Development in Highly Phosphorus-Efficient <i>Hakea prostrata</i> . <i>Plant Physiology</i> , 2014, 166, 1891-1911.	2.3	38
74	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.	2.3	78
75	Chill out with rockcress: quantitative genetics of frost tolerance in the <i>Arabidopsis thaliana</i> orthologous American wild perennial <i>Boechera stricta</i> . <i>Plant, Cell and Environment</i> , 2014, 37, 2453-2455.	2.8	1
76	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.	2.4	326
77	Trehalose metabolism in plants. <i>Plant Journal</i> , 2014, 79, 544-567.	2.8	464
78	Adjustment of carbon fluxes to light conditions regulates the daily turnover of starch in plants: a computational model. <i>Molecular BioSystems</i> , 2014, 10, 613-627.	2.9	55
79	Expression of Sucrose Transporter cDNAs Specifically in Companion Cells Enhances Phloem Loading and Long-Distance Transport of Sucrose but Leads to an Inhibition of Growth and the Perception of a Phosphate Limitation. <i>Plant Physiology</i> , 2014, 165, 715-731.	2.3	72
80	Metabolic efficiency underpins performance trade-offs in growth of <i>Arabidopsis thaliana</i> . <i>Nature Communications</i> , 2014, 5, 3537.	5.8	23
81	<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.	3.9	244
82	Systems Analysis of the Response of Photosynthesis, Metabolism, and Growth to an Increase in Irradiance in the Photosynthetic Model Organism <i>Chlamydomonas reinhardtii</i> . <i>Plant Cell</i> , 2014, 26, 2310-2350.	3.1	123
83	Flux profiling of photosynthetic carbon metabolism in intact plants. <i>Nature Protocols</i> , 2014, 9, 1803-1824.	5.5	59
84	Dissecting the Subcellular Compartmentation of Proteins and Metabolites in <i>Arabidopsis</i> Leaves Using Non-aqueous Fractionation. <i>Molecular and Cellular Proteomics</i> , 2014, 13, 2246-2259.	2.5	58
85	Why measure enzyme activities in the era of systems biology?. <i>Trends in Plant Science</i> , 2014, 19, 256-265.	4.3	73
86	Nitrogen-Sparing Mechanisms in <i>Chlamydomonas</i> Affect the Transcriptome, the Proteome, and Photosynthetic Metabolism. <i>Plant Cell</i> , 2014, 26, 1410-1435.	3.1	314
87	A fluorometric assay for trehalose in the picomole range. <i>Plant Methods</i> , 2013, 9, 21.	1.9	59
88	Systems-Level Analysis of Nitrogen Starvation-Induced Modifications of Carbon Metabolism in a <i>Chlamydomonas reinhardtii</i> Starchless Mutant. <i>Plant Cell</i> , 2013, 25, 4305-4323.	3.1	176
89	<i>TIME FOR COFFEE</i> is an essential component in the maintenance of metabolic homeostasis in <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 2013, 76, 188-200.	2.8	79
90	Regulation of Flowering by Trehalose-6-Phosphate Signaling in <i>Arabidopsis thaliana</i> . <i>Science</i> , 2013, 339, 704-707.	6.0	571

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91	Systems-integration of plant metabolism: means, motive and opportunity. <i>Current Opinion in Plant Biology</i> , 2013, 16, 381-388.	3.5	35
92	Progress in understanding and engineering primary plant metabolism. <i>Current Opinion in Biotechnology</i> , 2013, 24, 229-238.	3.3	34
93	Diurnal Changes of Polysome Loading Track Sucrose Content in the Rosette of Wild-Type Arabidopsis and the Starchless <i>pgm</i> Mutant. <i>Plant Physiology</i> , 2013, 162, 1246-1265.	2.3	133
94	Feedback Inhibition of Starch Degradation in Arabidopsis Leaves Mediated by Trehalose 6-Phosphate. <i>Plant Physiology</i> , 2013, 163, 1142-1163.	2.3	167
95	Impact of the Carbon and Nitrogen Supply on Relationships and Connectivity between Metabolism and Biomass in a Broad Panel of Arabidopsis Accessions. <i>Plant Physiology</i> , 2013, 162, 347-363.	2.3	87
96	Metabolic Fluxes in an Illuminated Arabidopsis Rosette. <i>Plant Cell</i> , 2013, 25, 694-714.	3.1	303
97	Metabolism and Growth in Arabidopsis Depend on the Daytime Temperature but Are Temperature-Compensated against Cool Nights. <i>Plant Cell</i> , 2012, 24, 2443-2469.	3.1	105
98	Genome-wide association mapping of leaf metabolic profiles for dissecting complex traits in maize. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 8872-8877.	3.3	340
99	On the Discordance of Metabolomics with Proteomics and Transcriptomics: Coping with Increasing Complexity in Logic, Chemistry, and Network Interactions <i>Scientific Correspondence</i> . <i>Plant Physiology</i> , 2012, 158, 1139-1145.	2.3	176
100	Proteaceae from severely phosphorus-impooverished soils extensively replace phospholipids with galactolipids and sulfolipids during leaf development to achieve a high photosynthetic phosphorus-use efficiency. <i>New Phytologist</i> , 2012, 196, 1098-1108.	3.5	225
101	Glycine decarboxylase controls photosynthesis and plant growth. <i>FEBS Letters</i> , 2012, 586, 3692-3697.	1.3	144
102	Genomic and metabolic prediction of complex heterotic traits in hybrid maize. <i>Nature Genetics</i> , 2012, 44, 217-220.	9.4	532
103	Systems-based analysis of Arabidopsis leaf growth reveals adaptation to water deficit. <i>Molecular Systems Biology</i> , 2012, 8, 606.	3.2	191
104	The art of growing plants for experimental purposes: a practical guide for the plant biologist. <i>Functional Plant Biology</i> , 2012, 39, 821.	1.1	217
105	Starch turnover: pathways, regulation and role in growth. <i>Current Opinion in Plant Biology</i> , 2012, 15, 282-292.	3.5	603
106	Mutagenesis of cysteine ⁸¹ prevents dimerization of the APS1 subunit of ADP-glucose pyrophosphorylase and alters diurnal starch turnover in Arabidopsis thaliana leaves. <i>Plant Journal</i> , 2012, 70, 231-242.	2.8	75
107	Use of TILLING and robotised enzyme assays to generate an allelic series of Arabidopsis thaliana mutants with altered ADP-glucose pyrophosphorylase activity. <i>Journal of Plant Physiology</i> , 2011, 168, 1395-1405.	1.6	23
108	Circadian control of root elongation and C partitioning in Arabidopsis thaliana. <i>Plant, Cell and Environment</i> , 2011, 34, 877-894.	2.8	145

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109	Identification of Enzyme Activity Quantitative Trait Loci in a <i>Solanum lycopersicum</i> × <i>Solanum pennellii</i> Introgression Line Population. <i>Plant Physiology</i> , 2011, 157, 998-1014.	2.3	36
110	Downregulation of pyrophosphate: d-fructose-6-phosphate 1-phosphotransferase activity in sugarcane culms enhances sucrose accumulation due to elevated hexose-phosphate levels. <i>Planta</i> , 2010, 231, 595-608.	1.6	52
111	<i>Arabidopsis</i> has a cytosolic fumarase required for the massive allocation of photosynthate into fumaric acid and for rapid plant growth on high nitrogen. <i>Plant Journal</i> , 2010, 62, 785-795.	2.8	148
112	<i>Arabidopsis</i> and primary photosynthetic metabolism “more than the icing on the cake”. <i>Plant Journal</i> , 2010, 61, 1067-1091.	2.8	300
113	Fine Quantitative Trait Loci Mapping of Carbon and Nitrogen Metabolism Enzyme Activities and Seedling Biomass in the Maize IBM Mapping Population. <i>Plant Physiology</i> , 2010, 154, 1753-1765.	2.3	58
114	Metabolic Networks: How to Identify Key Components in the Regulation of Metabolism and Growth. <i>Plant Physiology</i> , 2010, 152, 428-444.	2.3	155
115	Circadian control of carbohydrate availability for growth in <i>Arabidopsis</i> plants at night. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 9458-9463.	3.3	576
116	Network Analysis of Enzyme Activities and Metabolite Levels and Their Relationship to Biomass in a Large Panel of <i>Arabidopsis</i> Accessions. <i>Plant Cell</i> , 2010, 22, 2872-2893.	3.1	131
117	Metabolic and Signaling Aspects Underpinning the Regulation of Plant Carbon Nitrogen Interactions. <i>Molecular Plant</i> , 2010, 3, 973-996.	3.9	616
118	Starch as a major integrator in the regulation of plant growth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 10348-10353.	3.3	467
119	Ribosome and transcript copy numbers, polysome occupancy and enzyme dynamics in <i>Arabidopsis</i> . <i>Molecular Systems Biology</i> , 2009, 5, 314.	3.2	276
120	Adjustment of growth, starch turnover, protein content and central metabolism to a decrease of the carbon supply when <i>Arabidopsis</i> is grown in very short photoperiods. <i>Plant, Cell and Environment</i> , 2009, 32, 859-874.	2.8	312
121	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.	2.8	216
122	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.	3.5	46
123	Multilevel genomic analysis of the response of transcripts, enzyme activities and metabolites in <i>Arabidopsis</i> rosettes to a progressive decrease of temperature in the non-freezing range. <i>Plant, Cell and Environment</i> , 2008, 31, 518-547.	2.8	191
124	Integrative analyses of genetic variation in enzyme activities of primary carbohydrate metabolism reveal distinct modes of regulation in <i>Arabidopsis thaliana</i> . <i>Genome Biology</i> , 2008, 9, R129.	13.9	90
125	Global Transcript Levels Respond to Small Changes of the Carbon Status during Progressive Exhaustion of Carbohydrates in <i>Arabidopsis</i> Rosettes. <i>Plant Physiology</i> , 2008, 146, 1834-1861.	2.3	306
126	Multilevel genomics analysis of carbon signalling during low carbon availability: coordinating the supply and utilisation of carbon in a fluctuating environment. <i>Functional Plant Biology</i> , 2007, 34, 526.	1.1	91

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127	Description and applications of a rapid and sensitive non-radioactive microplate-based assay for maximum and initial activity of D-ribulose-1,5-bisphosphate carboxylase/oxygenase. <i>Plant, Cell and Environment</i> , 2007, 30, 1163-1175.	2.8	82
128	Coordination of carbon supply and plant growth. <i>Plant, Cell and Environment</i> , 2007, 30, 1126-1149.	2.8	838
129	Temporal responses of transcripts, enzyme activities and metabolites after adding sucrose to carbon-deprived <i>Arabidopsis</i> seedlings. <i>Plant Journal</i> , 2007, 49, 463-491.	2.8	272
130	Integration of metabolite with transcript and enzyme activity profiling during diurnal cycles in <i>Arabidopsis</i> rosettes. <i>Genome Biology</i> , 2006, 7, R76.	13.9	304
131	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.	1.7	518
132	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.	2.8	85
133	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.	2.8	324
134	Variation of Enzyme Activities and Metabolite Levels in 24 <i>Arabidopsis</i> Accessions Growing in Carbon-Limited Conditions. <i>Plant Physiology</i> , 2006, 142, 1574-1588.	2.3	270
135	Sugars and Circadian Regulation Make Major Contributions to the Global Regulation of Diurnal Gene Expression in <i>Arabidopsis</i> Å. <i>Plant Cell</i> , 2005, 17, 3257-3281.	3.1	608
136	GMD@CSB.DB: the Golm Metabolome Database. <i>Bioinformatics</i> , 2005, 21, 1635-1638.	1.8	1,247
137	A Robot-Based Platform to Measure Multiple Enzyme Activities in <i>Arabidopsis</i> Using a Set of Cycling Assays: Comparison of Changes of Enzyme Activities and Transcript Levels during Diurnal Cycles and in Prolonged Darkness[W]. <i>Plant Cell</i> , 2004, 16, 3304-3325.	3.1	489
138	mapman: a user-driven tool to display genomics data sets onto diagrams of metabolic pathways and other biological processes. <i>Plant Journal</i> , 2004, 37, 914-939.	2.8	3,184
139	Adjustment of diurnal starch turnover to short days: depletion of sugar during the night leads to a temporary inhibition of carbohydrate utilization, accumulation of sugars and post-translational activation of ADP-glucose pyrophosphorylase in the following light period. <i>Plant Journal</i> , 2004, 39, 847-862.	2.8	378
140	ADP-Glucose Pyrophosphorylase Is Activated by Posttranslational Redox-Modification in Response to Light and to Sugars in Leaves of <i>Arabidopsis</i> and Other Plant Species Å. <i>Plant Physiology</i> , 2003, 133, 838-849.	2.3	381
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