Mark Stitt

List of Publications by Year in descending order

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Μλρκ Stitt

#	Article	IF	CITATIONS
1	How Stress Affects Your Budget—Stress Impacts on Starch Metabolism. Frontiers in Plant Science, 2022, 13, 774060.	3.6	15
2	Metabolic profiles in C3, C3–C4 intermediate, C4-like, and C4 species in the genus <i>Flaveria</i> . Journal of Experimental Botany, 2022, 73, 1581-1601.	4.8	25
3	Carbon flux through photosynthesis and central carbon metabolism show distinct patterns between algae, C3 and C4 plants. Nature Plants, 2022, 8, 78-91.	9.3	49
4	Rising rates of starch degradation during daytime and trehalose 6-phosphate optimize carbon availability. Plant Physiology, 2022, 189, 1976-2000.	4.8	18
5	Sucrose synthases are not involved in starch synthesis in Arabidopsis leaves. Nature Plants, 2022, 8, 574-582.	9.3	21
6	The circadian clock mutant <i>lhy cca1 elf3</i> paces starch mobilization to dawn despite severely disrupted circadian clock function. Plant Physiology, 2022, 189, 2332-2356.	4.8	4
7	The <i>Arabidopsis</i> Framework Model version 2 predicts the organism-level effects of circadian clock gene mis-regulation. In Silico Plants, 2022, 4, .	1.9	2
8	Point mutations that boost aromatic amino acid production and CO ₂ assimilation in plants. Science Advances, 2022, 8, .	10.3	7
9	13CO2 labeling kinetics in maize reveal impaired efficiency of C4 photosynthesis under low irradiance. Plant Physiology, 2022, 190, 280-304.	4.8	11
10	Installation of C ₄ photosynthetic pathway enzymes in rice using a single construct. Plant Biotechnology Journal, 2021, 19, 575-588.	8.3	78
11	Regulation of shoot branching in arabidopsis by trehalose 6â€phosphate. New Phytologist, 2021, 229, 2135-2151.	7.3	95
12	Phytochromes control metabolic flux, and their action at the seedling stage determines adult plant biomass. Journal of Experimental Botany, 2021, 72, 3263-3278.	4.8	6
13	Assessing Protein Synthesis and Degradation Rates in Arabidopsis thaliana Using Amino Acid Analysis. Current Protocols, 2021, 1, e114.	2.9	2
14	Targeted metabolite profiling as a top-down approach to uncover interspecies diversity and identify key conserved operational features in the Calvin–Benson cycle. Journal of Experimental Botany, 2021, 72, 5961-5986.	4.8	16
15	Impact of the SnRK1 protein kinase on sucrose homeostasis and the transcriptome during the diel cycle. Plant Physiology, 2021, 187, 1357-1373.	4.8	39
16	Topology of the redox network during induction of photosynthesis as revealed by time-resolved proteomics in tobacco. Science Advances, 2021, 7, eabi8307.	10.3	27
17	A Partial C4 Photosynthetic Biochemical Pathway in Rice. Frontiers in Plant Science, 2020, 11, 564463.	3.6	28
18	Multi-omics reveals mechanisms of total resistance to extreme illumination of a desert alga. Nature Plants, 2020, 6, 1031-1043.	9.3	33

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19	Overexpression of Sedoheptulose-1,7-Bisphosphatase Enhances Photosynthesis in Chlamydomonas reinhardtii and Has No Effect on the Abundance of Other Calvin-Benson Cycle Enzymes. Frontiers in Plant Science, 2020, 11, 868.	3.6	41
20	Synchronization of developmental, molecular and metabolic aspects of source–sink interactions. Nature Plants, 2020, 6, 55-66.	9.3	107
21	Metabolic profiles of six African cultivars of cassava (<i>Manihot esculenta</i> Crantz) highlight bottlenecks of root yield. Plant Journal, 2020, 102, 1202-1219.	5.7	27
22	Functional Features of TREHALOSE-6-PHOSPHATE SYNTHASE1, an Essential Enzyme in Arabidopsis[OPEN]. Plant Cell, 2020, 32, 1949-1972.	6.6	69
23	Protein Phosphorylation Dynamics Under Carbon/Nitrogen-Nutrient Stress and Identification of a Cell Death-Related Receptor-Like Kinase in Arabidopsis. Frontiers in Plant Science, 2020, 11, 377.	3.6	28
24	Relationship between irradiance and levels of Calvin–Benson cycle and other intermediates in the model eudicot Arabidopsis and the model monocot rice. Journal of Experimental Botany, 2019, 70, 5809-5825.	4.8	23
25	Response of the Circadian Clock and Diel Starch Turnover to One Day of Low Light or Low CO ₂ . Plant Physiology, 2019, 179, 1457-1478.	4.8	52
26	Engineering Strategies to Boost Crop Productivity by Cutting Respiratory Carbon Loss. Plant Cell, 2019, 31, 297-314.	6.6	86
27	Modeling Protein Destiny in Developing Fruit. Plant Physiology, 2019, 180, 1709-1724.	4.8	33
28	MapMan4: A Refined Protein Classification and Annotation Framework Applicable to Multi-Omics Data Analysis. Molecular Plant, 2019, 12, 879-892.	8.3	353
29	Metabolite profiles reveal interspecific variation in operation of the Calvin–Benson cycle in both C4 and C3 plants. Journal of Experimental Botany, 2019, 70, 1843-1858.	4.8	47
30	Cassava Metabolomics and Starch Quality. Current Protocols in Plant Biology, 2019, 4, e20102.	2.8	16
31	Multiple circadian clock outputs regulate diel turnover of carbon and nitrogen reserves. Plant, Cell and Environment, 2019, 42, 549-573.	5.7	49
32	Photoperiodic control of the <i>Arabidopsis</i> proteome reveals a translational coincidence mechanism. Molecular Systems Biology, 2018, 14, e7962.	7.2	74
33	Carbon Supply and the Regulation of Cell Wall Synthesis. Molecular Plant, 2018, 11, 75-94.	8.3	158
34	Feedback regulation by trehalose 6â€phosphate slows down starch mobilization below the rate that would exhaust starch reserves at dawn in Arabidopsis leaves. Plant Direct, 2018, 2, e00078.	1.9	35
35	Response of Arabidopsis primary metabolism and circadian clock to low night temperature in a natural light environment. Journal of Experimental Botany, 2018, 69, 4881-4895.	4.8	73
36	Effects of microcompartmentation on flux distribution and metabolic pools in Chlamydomonas reinhardtii chloroplasts. ELife, 2018, 7, .	6.0	37

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37	Parallel analysis of <i>Arabidopsis</i> circadian clock mutants reveals different scales of transcriptome and proteome regulation. Open Biology, 2017, 7, 160333.	3.6	52
38	Growth rate correlates negatively with protein turnover in Arabidopsis accessions. Plant Journal, 2017, 91, 416-429.	5.7	58
39	Photosynthate partitioning to starch in <scp><i>Arabidopsis thaliana</i></scp> is insensitive to light intensity but sensitive to photoperiod due to a restriction on growth in the light in short photoperiods. Plant, Cell and Environment, 2017, 40, 2608-2627.	5.7	82
40	Cellulose Synthesis and Cell Expansion Are Regulated by Different Mechanisms in Growing Arabidopsis Hypocotyls. Plant Cell, 2017, 29, 1305-1315.	6.6	67
41	Circadian, Carbon, and Light Control of Expansion Growth and Leaf Movement. Plant Physiology, 2017, 174, 1949-1968.	4.8	39
42	The Photorespiratory Metabolite 2-Phosphoglycolate Regulates Photosynthesis and Starch Accumulation in Arabidopsis. Plant Cell, 2017, 29, 2537-2551.	6.6	132
43	Genome-Wide Association Mapping Reveals That Specific and Pleiotropic Regulatory Mechanisms Fine-Tune Central Metabolism and Growth in Arabidopsis. Plant Cell, 2017, 29, 2349-2373.	6.6	32
44	Getting back to nature: a reality check for experiments in controlled environments. Journal of Experimental Botany, 2017, 68, 4463-4477.	4.8	89
45	Trehalose 6â€phosphate is involved in triggering axillary bud outgrowth in garden pea (<i>Pisum) Tj ETQq1 1 0.7</i>	84314 rgB	T /Overlock
46	Omics-based hybrid prediction in maize. Theoretical and Applied Genetics, 2017, 130, 1927-1939.	3.6	90
47	Leaf Starch Turnover Occurs in Long Days and in Falling Light at the End of the Day. Plant Physiology, 2017, 174, 2199-2212.	4.8	80
48	The role of Tre6P and SnRK1 in maize early kernel development and events leading to stress-induced kernel abortion. BMC Plant Biology, 2017, 17, 74.	3.6	53
49	Spatially resolved metabolic analysis reveals a central role for transcriptional control in carbon allocation to wood. Journal of Experimental Botany, 2017, 68, 3529-3539.	4.8	15
50	Metabolite pools and carbon flow during C ₄ photosynthesis in maize: ¹³ CO ₂ labeling kinetics and cell type fractionation. Journal of Experimental Botany, 2017, 68, 283-298.	4.8	104
51	Crops In Silico: Generating Virtual Crops Using an Integrative and Multi-scale Modeling Platform. Frontiers in Plant Science, 2017, 8, 786.	3.6	102
52	Correlation-Based Network Analysis of Metabolite and Enzyme Profiles Reveals a Role of Citrate Biosynthesis in Modulating N and C Metabolism in Zea mays. Frontiers in Plant Science, 2016, 7, 1022.	3.6	20
53	Temporal kinetics of the transcriptional response to carbon depletion and sucrose readdition in <i>Arabidopsis</i> seedlings. Plant, Cell and Environment, 2016, 39, 768-786.	5.7	37
54	Trehalose 6–phosphate coordinates organic and amino acid metabolism with carbon availability. Plant Journal, 2016, 85, 410-423.	5.7	176

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55	50Âyears of Arabidopsis research: highlights and future directions. New Phytologist, 2016, 209, 921-944.	7.3	186
56	Plants <i>in silico</i> : why, why now and what?—an integrative platform for plant systems biology research. Plant, Cell and Environment, 2016, 39, 1049-1057.	5.7	66
57	A repeat protein links Rubisco to form the eukaryotic carbon-concentrating organelle. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 5958-5963.	7.1	196
58	The interplay between carbon availability and growth in different zones of the growing maize leaf. Plant Physiology, 2016, 172, pp.00994.2016.	4.8	24
59	Metabolic and Transcriptional Analysis of Durum Wheat Responses to Elevated CO2at Low and High Nitrate Supply. Plant and Cell Physiology, 2016, 57, 2133-2146.	3.1	67
60	Photoperiodâ€dependent changes in the phase of core clock transcripts and global transcriptional outputs at dawn and dusk in <i>Arabidopsis</i> . Plant, Cell and Environment, 2016, 39, 1955-1981.	5.7	60
61	Allelic differences in a vacuolar invertase affect Arabidopsis growth at early plant development. Journal of Experimental Botany, 2016, 67, 4091-4103.	4.8	20
62	Reproductive failure in <scp><i>Arabidopsis thaliana</i></scp> under transient carbohydrate limitation: flowers and very young siliques are jettisoned and the meristem is maintained to allow successful resumption of reproductive growth. Plant, Cell and Environment, 2016, 39, 745-767.	5.7	34
63	Defining the robust behaviour of the plant clock gene circuit with absolute RNA timeseries and open infrastructure. Open Biology, 2015, 5, 150042.	3.6	42
64	Phytotyping ^{4D} : a lightâ€field imaging system for nonâ€invasive and accurate monitoring of spatioâ€temporal plant growth. Plant Journal, 2015, 82, 693-706.	5.7	97
65	Quantifying Protein Synthesis and Degradation in Arabidopsis by Dynamic ¹³ CO ₂ Labeling and Analysis of Enrichment in Individual Amino Acids in Their Free Pools and in Protein. Plant Physiology, 2015, 168, 74-93.	4.8	132
66	A long photoperiod relaxes energy management in Arabidopsis leaf six. Current Plant Biology, 2015, 2, 34-45.	4.7	27
67	Synthesis and Use of Stable-Isotope-Labeled Internal Standards for Quantification of Phosphorylated Metabolites by LC–MS/MS. Analytical Chemistry, 2015, 87, 6896-6904.	6.5	66
68	Genome-Wide Association of Carbon and Nitrogen Metabolism in the Maize Nested Association Mapping Population. Plant Physiology, 2015, 168, 575-583.	4.8	80
69	Comparative transcriptional profiling analysis of developing melon (Cucumis melo L.) fruit from climacteric varieties. BMC Genomics, 2015, 16, 440.	2.8	62
70	Relationship between starch degradation and carbon demand for maintenance and growth in <scp><i>A</i></scp> <i>rabidopsis thaliana</i> in different irradiance and temperature regimes. Plant, Cell and Environment, 2015, 38, 157-171.	5.7	86
71	Multiscale digital <i>Arabidopsis</i> predicts individual organ and whole-organism growth. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E4127-36.	7.1	88
72	Association Mapping across Numerous Traits Reveals Patterns of Functional Variation in Maize. PLoS Genetics, 2014, 10, e1004845.	3.5	171

Mark Stitt

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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> . Plant Physiology, 2014, 166, 1891-1911.	4.8	38
74	Regulatory Properties of ADP Glucose Pyrophosphorylase Are Required for Adjustment of Leaf Starch Synthesis in Different Photoperiods Â. Plant Physiology, 2014, 166, 1733-1747.	4.8	78
75	Chill out with rockcress: quantitative genetics of frost tolerance in the <scp>N</scp> orth <scp>A</scp> merican wild perennial <scp><i>B</i></scp> <i>oechera stricta</i> . Plant, Cell and Environment, 2014, 37, 2453-2455.	5.7	1
76	The sucrose–trehalose 6-phosphate (Tre6P) nexus: specificity and mechanisms of sucrose signalling by Tre6P. Journal of Experimental Botany, 2014, 65, 1051-1068.	4.8	326
77	Trehalose metabolism in plants. Plant Journal, 2014, 79, 544-567.	5.7	464
78	Adjustment of carbon fluxes to light conditions regulates the daily turnover of starch in plants: a computational model. Molecular BioSystems, 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 Â. Plant Physiology, 2014, 165, 715-731.	4.8	72
80	Metabolic efficiency underpins performance trade-offs in growth of Arabidopsis thaliana. Nature Communications, 2014, 5, 3537.	12.8	23
81	Arabidopsis Coordinates the Diurnal Regulation of Carbon Allocation and Growth across a Wide Range of Photoperiods. Molecular Plant, 2014, 7, 137-155.	8.3	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> Â Â Â. Plant Cell, 2014, 26, 2310-2350.	6.6	123
83	Flux profiling of photosynthetic carbon metabolism in intact plants. Nature Protocols, 2014, 9, 1803-1824.	12.0	59
84	Dissecting the Subcellular Compartmentation of Proteins and Metabolites in Arabidopsis Leaves Using Non-aqueous Fractionation. Molecular and Cellular Proteomics, 2014, 13, 2246-2259.	3.8	58
85	Why measure enzyme activities in the era of systems biology?. Trends in Plant Science, 2014, 19, 256-265.	8.8	73
86	Nitrogen-Sparing Mechanisms in <i>Chlamydomonas</i> Affect the Transcriptome, the Proteome, and Photosynthetic Metabolism. Plant Cell, 2014, 26, 1410-1435.	6.6	314
87	A fluorometric assay for trehalose in the picomole range. Plant Methods, 2013, 9, 21.	4.3	59
88	Systems-Level Analysis of Nitrogen Starvation-Induced Modifications of Carbon Metabolism in a Chlamydomonas reinhardtii Starchless Mutant. Plant Cell, 2013, 25, 4305-4323.	6.6	176
89	<i><scp>TIME FOR COFFEE</scp></i> is an essential component in the maintenance of metabolic homeostasis in <i><scp>A</scp>rabidopsis thaliana</i> . Plant Journal, 2013, 76, 188-200.	5.7	79
90	Regulation of Flowering by Trehalose-6-Phosphate Signaling in <i>Arabidopsis thaliana</i> . Science, 2013, 339, 704-707.	12.6	571

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91	Systems-integration of plant metabolism: means, motive and opportunity. Current Opinion in Plant Biology, 2013, 16, 381-388.	7.1	35
92	Progress in understanding and engineering primary plant metabolism. Current Opinion in Biotechnology, 2013, 24, 229-238.	6.6	34
93	Diurnal Changes of Polysome Loading Track Sucrose Content in the Rosette of Wild-Type Arabidopsis and the Starchless <i>pgm</i> Mutant Â. Plant Physiology, 2013, 162, 1246-1265.	4.8	133
94	Feedback Inhibition of Starch Degradation in Arabidopsis Leaves Mediated by Trehalose 6-Phosphate Â. Plant Physiology, 2013, 163, 1142-1163.	4.8	167
95	Impact of the Carbon and Nitrogen Supply on Relationships and Connectivity between Metabolism and Biomass in a Broad Panel of Arabidopsis Accessions Â. Plant Physiology, 2013, 162, 347-363.	4.8	87
96	Metabolic Fluxes in an Illuminated <i>Arabidopsis</i> Rosette Â. Plant Cell, 2013, 25, 694-714.	6.6	303
97	Metabolism and Growth in Arabidopsis Depend on the Daytime Temperature but Are Temperature-Compensated against Cool Nights. Plant Cell, 2012, 24, 2443-2469.	6.6	105
98	Genome-wide association mapping of leaf metabolic profiles for dissecting complex traits in maize. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 8872-8877.	7.1	340
99	On the Discordance of Metabolomics with Proteomics and Transcriptomics: Coping with Increasing Complexity in Logic, Chemistry, and Network Interactions Scientific Correspondence. Plant Physiology, 2012, 158, 1139-1145.	4.8	176
100	Proteaceae from severely phosphorusâ€impoverished soils extensively replace phospholipids with galactolipids and sulfolipids during leaf development to achieve a high photosynthetic phosphorusâ€useâ€efficiency. New Phytologist, 2012, 196, 1098-1108.	7.3	225
101	Glycine decarboxylase controls photosynthesis and plant growth. FEBS Letters, 2012, 586, 3692-3697.	2.8	144
102	Genomic and metabolic prediction of complex heterotic traits in hybrid maize. Nature Genetics, 2012, 44, 217-220.	21.4	532
103	Systemsâ€based analysis of Arabidopsis leaf growth reveals adaptation to water deficit. Molecular Systems Biology, 2012, 8, 606.	7.2	191
104	The art of growing plants for experimental purposes: a practical guide for the plant biologist. Functional Plant Biology, 2012, 39, 821.	2.1	217
105	Starch turnover: pathways, regulation and role in growth. Current Opinion in Plant Biology, 2012, 15, 282-292.	7.1	603
106	Mutagenesis of cysteine 81 prevents dimerization of the APS1 subunit of ADPâ€glucose pyrophosphorylase and alters diurnal starch turnover in <i>Arabidopsis thaliana</i> leaves. Plant Journal, 2012, 70, 231-242.	5.7	75
107	Use of TILLING and robotised enzyme assays to generate an allelic series of Arabidopsis thaliana mutants with altered ADP-glucose pyrophosphorylase activity. Journal of Plant Physiology, 2011, 168, 1395-1405.	3.5	23
108	Circadian control of root elongation and C partitioning in <i>Arabidopsis thaliana</i> . Plant, Cell and Environment, 2011, 34, 877-894.	5.7	145

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109	Identification of Enzyme Activity Quantitative Trait Loci in a Solanum lycopersicum × Solanum pennellii Introgression Line Population Â. Plant Physiology, 2011, 157, 998-1014.	4.8	36
110	Downregulation of pyrophosphate: d-fructose-6-phosphate 1-phosphotransferase activity in sugarcane culms enhances sucrose accumulation due to elevated hexose-phosphate levels. Planta, 2010, 231, 595-608.	3.2	52
111	Arabidopsis has a cytosolic fumarase required for the massive allocation of photosynthate into fumaric acid and for rapid plant growth on high nitrogen. Plant Journal, 2010, 62, 785-795.	5.7	148
112	Arabidopsis and primary photosynthetic metabolism – more than the icing on the cake. Plant Journal, 2010, 61, 1067-1091.	5.7	300
113	Fine Quantitative Trait Loci Mapping of Carbon and Nitrogen Metabolism Enzyme Activities and Seedling Biomass in the Maize IBM Mapping Population A Â. Plant Physiology, 2010, 154, 1753-1765.	4.8	58
114	Metabolic Networks: How to Identify Key Components in the Regulation of Metabolism and Growth. Plant Physiology, 2010, 152, 428-444.	4.8	155
115	Circadian control of carbohydrate availability for growth in <i>Arabidopsis</i> plants at night. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 9458-9463.	7.1	576
116	Network Analysis of Enzyme Activities and Metabolite Levels and Their Relationship to Biomass in a Large Panel of <i>Arabidopsis</i> Accessions Â. Plant Cell, 2010, 22, 2872-2893.	6.6	131
117	Metabolic and Signaling Aspects Underpinning the Regulation of Plant Carbon Nitrogen Interactions. Molecular Plant, 2010, 3, 973-996.	8.3	616
118	Starch as a major integrator in the regulation of plant growth. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 10348-10353.	7.1	467
119	Ribosome and transcript copy numbers, polysome occupancy and enzyme dynamics in <i>Arabidopsis</i> . Molecular Systems Biology, 2009, 5, 314.	7.2	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. Plant, Cell and Environment, 2009, 32, 859-874.	5.7	312
121	Use of reverseâ€phase liquid chromatography, linked to tandem mass spectrometry, to profile the Calvin cycle and other metabolic intermediates in Arabidopsis rosettes at different carbon dioxide concentrations. Plant Journal, 2009, 59, 826-839.	5.7	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. New Phytologist, 2009, 184, 607-618.	7.3	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 nonâ€freezing range. Plant, Cell and Environment, 2008, 31, 518-547.	5.7	191
124	Integrative analyses of genetic variation in enzyme activities of primary carbohydrate metabolism reveal distinct modes of regulation in Arabidopsis thaliana. Genome Biology, 2008, 9, R129.	9.6	90
125	Global Transcript Levels Respond to Small Changes of the Carbon Status during Progressive Exhaustion of Carbohydrates in Arabidopsis Rosettes Â. Plant Physiology, 2008, 146, 1834-1861.	4.8	306
126	Multilevel genomics analysis of carbon signalling during low carbon availability: coordinating the supply and utilisation of carbon in a fluctuating environment. Functional Plant Biology, 2007, 34, 526.	2.1	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. Plant, Cell and Environment, 2007, 30, 1163-1175.	5.7	82
128	Coordination of carbon supply and plant growth. Plant, Cell and Environment, 2007, 30, 1126-1149.	5.7	838
129	Temporal responses of transcripts, enzyme activities and metabolites after adding sucrose to carbon-deprived Arabidopsis seedlings. Plant Journal, 2007, 49, 463-491.	5.7	272
130	Integration of metabolite with transcript and enzyme activity profiling during diurnal cycles in Arabidopsis rosettes. Genome Biology, 2006, 7, R76.	9.6	304
131	Sugar-induced increases in trehalose 6-phosphate are correlated with redox activation of ADPglucose pyrophosphorylase and higher rates of starch synthesis in Arabidopsis thaliana. Biochemical Journal, 2006, 397, 139-148.	3.7	518
132	Impact of the C?N status on the amino acid profile in tobacco source leaves. Plant, Cell and Environment, 2006, 29, 2055-2076.	5.7	85
133	Regulation of secondary metabolism by the carbon-nitrogen status in tobacco: nitrate inhibits large sectors of phenylpropanoid metabolism. Plant Journal, 2006, 46, 533-548.	5.7	324
134	Variation of Enzyme Activities and Metabolite Levels in 24 Arabidopsis Accessions Growing in Carbon-Limited Conditions. Plant Physiology, 2006, 142, 1574-1588.	4.8	270
135	Sugars and Circadian Regulation Make Major Contributions to the Global Regulation of Diurnal Gene Expression in Arabidopsis Â. Plant Cell, 2005, 17, 3257-3281.	6.6	608
136	GMD@CSB.DB: the Golm Metabolome Database. Bioinformatics, 2005, 21, 1635-1638.	4.1	1,247
137	A Robot-Based Platform to Measure Multiple Enzyme Activities in Arabidopsis Using a Set of Cycling Assays: Comparison of Changes of Enzyme Activities and Transcript Levels during Diurnal Cycles and in Prolonged Darkness[W]. Plant Cell, 2004, 16, 3304-3325.	6.6	489
138	mapman: a user-driven tool to display genomics data sets onto diagrams of metabolic pathways and other biological processes. Plant Journal, 2004, 37, 914-939.	5.7	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. Plant Journal, 2004, 39, 847-862	5.7	378
140	ADP-Glucose Pyrophosphorylase Is Activated by Posttranslational Redox-Modification in Response to Light and to Sugars in Leaves of Arabidopsis and Other Plant Species Â. Plant Physiology, 2003, 133, 838-849.	4.8	381
141	Imaging of metabolites by using a fusion protein between a periplasmic binding protein and GFP derivatives: From a chimera to a view of reality. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 9614-9616.	7.1	10
142	Starch Synthesis in Potato Tubers Is Regulated by Post-Translational Redox Modification of ADP-Glucose Pyrophosphorylase. Plant Cell, 2002, 14, 2191-2213.	6.6	383
143	Steps towards an integrated view of nitrogen metabolism. Journal of Experimental Botany, 2002, 53, 959-970.	4.8	549
144	A plant for all seasons: alterations in photosynthetic carbon metabolism during cold acclimation in Arabidopsis. Current Opinion in Plant Biology, 2002, 5, 199-206.	7.1	344

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145	Sensitive and high throughput metabolite assays for inorganic pyrophosphate, ADPGlc, nucleotide phosphates, and glycolytic intermediates based on a novel enzymic cycling system. Plant Journal, 2002, 30, 221-235.	5.7	170
146	Tobacco transformants with strongly decreased expression of pyrophosphate:fructose-6-phosphate expression in the base of their young growing leaves contain much higher levels of fructose-2,6-bisphosphate but no major changes in fluxes. Planta, 2001, 214, 106-116.	3.2	38
147	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
148	Decreased expression of two key enzymes in the sucrose biosynthesis pathway, cytosolic fructose-1,6-bisphosphatase and sucrose phosphate synthase, has remarkably different consequences for photosynthetic carbon metabolism in transgenic Arabidopsis thaliana. Plant Journal, 2000, 23, 759-770.	5.7	146
149	Acclimation of Arabidopsis Leaves Developing at Low Temperatures. Increasing Cytoplasmic Volume Accompanies Increased Activities of Enzymes in the Calvin Cycle and in the Sucrose-Biosynthesis Pathway1. Plant Physiology, 1999, 119, 1387-1398.	4.8	292
150	Site-directed mutagenesis of serine 158 demonstrates its role in spinach leaf sucrose-phosphate synthase modulation. Plant Journal, 1999, 17, 407-413.	5.7	42
151	Changes in aldolase activity in wildâ€type potato plants are important for acclimation to growth irradiance and carbon dioxide concentration, because plastid aldolase exerts control over the ambient rate of photosynthesis across a range of growth conditions. Plant Journal, 1999, 17, 479-489.	5.7	101
152	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
153	Quantitative analysis of the local rates of growth of dicot leaves at a high temporal and spatial resolution, using image sequence analysis. Plant Journal, 1998, 16, 505-514.	5.7	113
154	Regulation of Metabolism in Transgenic Plants. Annual Review of Plant Biology, 1995, 46, 341-368.	14.3	219
155	Sucrose synthase catalyses a readily reversible reaction in vivo in developing potato tubers and other plant tissues. Planta, 1993, 189, 329-339.	3.2	330
156	Changes of carbohydrates, metabolites and enzyme activities in potato tubers during development, and within a single tuber along astolon-apexgradient. Journal of Plant Physiology, 1993, 142, 392-402.	3.5	107
157	Inorganic pyrophosphate content and metabolites in potato and tobacco plants expressing E. coli pyrophosphatase in their cytosol. Planta, 1992, 188, 238-244.	3.2	205
158	A ?futile? cycle of sucrose synthesis and degradation is involved in regulating partitioning between sucrose, starch and respiration in cotyledons of germinating Ricinus communis L. seedlings when phloem transport is inhibited. Planta, 1991, 185, 81-90.	3.2	121
159	Control analysis of photosynthate partitioning. Planta, 1990, 182, 445-454.	3.2	183
160	A study of the rate of recycling of triose phosphates in heterotrophic Chenopodium rubrum cells, potato tubers, and maize endosperm. Planta, 1990, 180, 198-204.	3.2	111
161	Fructose-2,6-Bisphosphate as a Regulatory Molecule in Plants. Annual Review of Plant Biology, 1990, 41, 153-185.	14.3	306
162	Short-term water stress leads to a stimulation of sucrose synthesis by activating sucrose-phosphate synthase. Planta, 1989, 177, 535-546.	3.2	176

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