List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Amino Acid Catabolism in Plants. Molecular Plant, 2015, 8, 1563-1579.	8.3	898
2	Not just a circle: flux modes in the plant TCA cycle. Trends in Plant Science, 2010, 15, 462-470.	8.8	713
3	Metabolic and Signaling Aspects Underpinning the Regulation of Plant Carbon Nitrogen Interactions. Molecular Plant, 2010, 3, 973-996.	8.3	616
4	Evolution and metabolic significance of the urea cycle in photosynthetic diatoms. Nature, 2011, 473, 203-207.	27.8	453
5	Integrated Analysis of Metabolite and Transcript Levels Reveals the Metabolic Shifts That Underlie Tomato Fruit Development and Highlight Regulatory Aspects of Metabolic Network Behavior. Plant Physiology, 2006, 142, 1380-1396.	4.8	432
6	Glycolysis and the Tricarboxylic Acid Cycle Are Linked by Alanine Aminotransferase during Hypoxia Induced by Waterlogging of <i>Lotus japonicus</i> . Plant Physiology, 2010, 152, 1501-1513.	4.8	346
7	Enhanced Photosynthetic Performance and Growth as a Consequence of Decreasing Mitochondrial Malate Dehydrogenase Activity in Transgenic Tomato Plants. Plant Physiology, 2005, 137, 611-622.	4.8	335
8	Metabolic Fluxes in an Illuminated <i>Arabidopsis</i> Rosette Â. Plant Cell, 2013, 25, 694-714.	6.6	303
9	Identification of the 2-Hydroxyglutarate and Isovaleryl-CoA Dehydrogenases as Alternative Electron Donors Linking Lysine Catabolism to the Electron Transport Chain of <i>Arabidopsis</i> Mitochondria Â. Plant Cell, 2010, 22, 1549-1563.	6.6	296
10	Deficiency of mitochondrial fumarase activity in tomato plants impairs photosynthesis via an effect on stomatal function. Plant Journal, 2007, 50, 1093-1106.	5.7	294
11	The role of amino acid metabolism during abiotic stress release. Plant, Cell and Environment, 2019, 42, 1630-1644.	5.7	278
12	Metabolic control and regulation of the tricarboxylic acid cycle in photosynthetic and heterotrophic plant tissues. Plant, Cell and Environment, 2012, 35, 1-21.	5.7	267
13	Silicon nutrition increases grain yield, which, in turn, exerts a feedâ€forward stimulation of photosynthetic rates via enhanced mesophyll conductance and alters primary metabolism in rice. New Phytologist, 2012, 196, 752-762.	7.3	239
14	Comparative analyses of C4 and C3 photosynthesis in developing leaves of maize and rice. Nature Biotechnology, 2014, 32, 1158-1165.	17.5	228
15	Malate Plays a Crucial Role in Starch Metabolism, Ripening, and Soluble Solid Content of Tomato Fruit and Affects Postharvest Softening Â. Plant Cell, 2011, 23, 162-184.	6.6	227
16	Mitochondrial uncoupling protein is required for efficient photosynthesis. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 19587-19592.	7.1	226
17	RNA Interference of LIN5 in Tomato Confirms Its Role in Controlling Brix Content, Uncovers the Influence of Sugars on the Levels of Fruit Hormones, and Demonstrates the Importance of Sucrose Cleavage for Normal Fruit Development and Fertility Â. Plant Physiology, 2009, 150, 1204-1218.	4.8	226
18	Antisense Inhibition of the Iron-Sulphur Subunit of Succinate Dehydrogenase Enhances Photosynthesis and Growth in Tomato via an Organic Acid–Mediated Effect on Stomatal Aperture Â. Plant Cell. 2011. 23. 600-627.	6.6	221

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19	Evolution, structure and function of mitochondrial carriers: a review with new insights. Plant Journal, 2011, 66, 161-181.	5.7	212
20	Reduced Expression of Aconitase Results in an Enhanced Rate of Photosynthesis and Marked Shifts in Carbon Partitioning in Illuminated Leaves of Wild Species Tomato. Plant Physiology, 2003, 133, 1322-1335.	4.8	210
21	Adjustment of growth and central metabolism to a mild but sustained nitrogenâ€limitation in <i>Arabidopsis</i> . Plant, Cell and Environment, 2009, 32, 300-318.	5.7	201
22	GDPâ€ <scp>d</scp> â€mannose 3,5â€epimerase (GME) plays a key role at the intersection of ascorbate and nonâ€cellulosic cellâ€wall biosynthesis in tomato. Plant Journal, 2009, 60, 499-508.	5.7	197
23	A Cytosolic Pathway for the Conversion of Hydroxypyruvate to Glycerate during Photorespiration in <i>Arabidopsis</i> . Plant Cell, 2008, 20, 2848-2859.	6.6	193
24	Regulation of respiration in plants: A role for alternative metabolic pathways. Journal of Plant Physiology, 2011, 168, 1434-1443.	3.5	189
25	Silencing of the Mitochondrial Ascorbate Synthesizing Enzyme <scp> </scp> -Galactono-1,4-Lactone Dehydrogenase Affects Plant and Fruit Development in Tomato. Plant Physiology, 2007, 145, 1408-1422.	4.8	184
26	Thioredoxin, a master regulator of the tricarboxylic acid cycle in plant mitochondria. Proceedings of the United States of America, 2015, 112, E1392-400.	7.1	179
27	Dynamic Plastid Redox Signals Integrate Gene Expression and Metabolism to Induce Distinct Metabolic States in Photosynthetic Acclimation in <i>Arabidopsis</i> Â. Plant Cell, 2009, 21, 2715-2732.	6.6	176
28	A mitochondrial GABA permease connects the GABA shunt and the TCA cycle, and is essential for normal carbon metabolism. Plant Journal, 2011, 67, 485-498.	5.7	160
29	Modifications in Organic Acid Profiles During Fruit Development and Ripening: Correlation or Causation?. Frontiers in Plant Science, 2018, 9, 1689.	3.6	152
30	Reduced Expression of Succinyl-Coenzyme A Ligase Can Be Compensated for by Up-Regulation of the <i>γ</i> -Aminobutyrate Shunt in Illuminated Tomato Leaves. Plant Physiology, 2007, 145, 626-639.	4.8	151
31	Molecular Identification and Functional Characterization of Arabidopsis thaliana Mitochondrial and Chloroplastic NAD+ Carrier Proteins. Journal of Biological Chemistry, 2009, 284, 31249-31259.	3.4	151
32	Regulation of the mitochondrial tricarboxylic acid cycle. Current Opinion in Plant Biology, 2013, 16, 335-343.	7.1	141
33	Altering Trehalose-6-Phosphate Content in Transgenic Potato Tubers Affects Tuber Growth and Alters Responsiveness to Hormones during Sprouting À Â. Plant Physiology, 2011, 156, 1754-1771.	4.8	138
34	Cytosolic pyruvate,orthophosphate dikinase functions in nitrogen remobilization during leaf senescence and limits individual seed growth and nitrogen content. Plant Journal, 2010, 62, 641-652.	5.7	129
35	Inhibition of 2-Oxoglutarate Dehydrogenase in Potato Tuber Suggests the Enzyme Is Limiting for Respiration and Confirms Its Importance in Nitrogen Assimilation Â. Plant Physiology, 2008, 148, 1782-1796.	4.8	127
36	Multiple strategies to prevent oxidative stress in Arabidopsis plants lacking the malate valve enzyme NADP-malate dehydrogenase. Journal of Experimental Botany, 2012, 63, 1445-1459.	4.8	125

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37	Evolution and regulation of nitrogen flux through compartmentalized metabolic networks in a marine diatom. Nature Communications, 2019, 10, 4552.	12.8	116
38	Conversion of MapMan to Allow the Analysis of Transcript Data from Solanaceous Species: Effects of Genetic and Environmental Alterations in Energy Metabolism in the Leaf. Plant Molecular Biology, 2006, 60, 773-792.	3.9	115
39	Pore size regulates operating stomatal conductance, while stomatal densities drive the partitioning of conductance between leaf sides. Annals of Botany, 2015, 115, 555-565.	2.9	115
40	Induction of the AOX1D Isoform of Alternative Oxidase in A. thaliana T-DNA Insertion Lines Lacking Isoform AOX1A Is Insufficient to Optimize Photosynthesis when Treated with Antimycin A. Molecular Plant, 2009, 2, 284-297.	8.3	112
41	Targeted Enhancement of Glutamate-to-γ-Aminobutyrate Conversion in Arabidopsis Seeds Affects Carbon-Nitrogen Balance and Storage Reserves in a Development-Dependent Manner Â. Plant Physiology, 2011, 157, 1026-1042.	4.8	111
42	Capsaicinoids: Pungency beyond Capsicum. Trends in Plant Science, 2019, 24, 109-120.	8.8	108
43	Vitamin B1 biosynthesis in plants requires the essential iron–sulfur cluster protein, THIC. Proceedings of the United States of America, 2007, 104, 19637-19642.	7.1	106
44	The <i>Arabidopsis onset of leaf death5</i> Mutation of Quinolinate Synthase Affects Nicotinamide Adenine Dinucleotide Biosynthesis and Causes Early Ageing. Plant Cell, 2008, 20, 2909-2925.	6.6	106
45	Targeting Mitochondrial Metabolism and Machinery as a Means to Enhance Photosynthesis. Plant Physiology, 2011, 155, 101-107.	4.8	105
46	The enigmatic contribution of mitochondrial function in photosynthesis. Journal of Experimental Botany, 2007, 59, 1675-1684.	4.8	104
47	The Mitochondrion: An Integration Point of Cellular Metabolism and Signalling. Critical Reviews in Plant Sciences, 2007, 26, 17-43.	5.7	102
48	Methyl Jasmonate: An Alternative for Improving the Quality and Health Properties of Fresh Fruits. Molecules, 2016, 21, 567.	3.8	99
49	Orchestration of Thiamin Biosynthesis and Central Metabolism by Combined Action of the Thiamin Pyrophosphate Riboswitch and the Circadian Clock in <i>Arabidopsis</i> Â Â. Plant Cell, 2013, 25, 288-307.	6.6	98
50	Autophagy Deficiency Compromises Alternative Pathways of Respiration following Energy Deprivation in <i>Arabidopsis thaliana</i> . Plant Physiology, 2017, 175, 62-76.	4.8	98
51	Robin: An Intuitive Wizard Application for R-Based Expression Microarray Quality Assessment and Analysis Â. Plant Physiology, 2010, 153, 642-651.	4.8	96
52	Arabidopsis uses two gluconeogenic gateways for organic acids to fuel seedling establishment. Nature Communications, 2015, 6, 6659.	12.8	95
53	Control of stomatal aperture. Plant Signaling and Behavior, 2011, 6, 1305-1311.	2.4	92
54	Toward the Storage Metabolome: Profiling the Barley Vacuole Â. Plant Physiology, 2011, 157, 1469-1482.	4.8	92

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55	Transcriptomic Analysis of the Role of Carboxylic Acids in Metabolite Signaling in Arabidopsis Leaves Â. Plant Physiology, 2013, 162, 239-253.	4.8	90
56	Mild Reductions in Mitochondrial Citrate Synthase Activity Result in a Compromised Nitrate Assimilation and Reduced Leaf Pigmentation But Have No Effect on Photosynthetic Performance or Growth Â. Plant Physiology, 2008, 147, 115-127.	4.8	89
57	Antisense Inhibition of the 2-Oxoglutarate Dehydrogenase Complex in Tomato Demonstrates Its Importance for Plant Respiration and during Leaf Senescence and Fruit Maturation. Plant Cell, 2012, 24, 2328-2351.	6.6	88
58	The Plastidial Glyceraldehyde-3-Phosphate Dehydrogenase Is Critical for Viable Pollen Development in Arabidopsis. Plant Physiology, 2010, 152, 1830-1841.	4.8	87
59	Inhibition of de Novo Pyrimidine Synthesis in Growing Potato Tubers Leads to a Compensatory Stimulation of the Pyrimidine Salvage Pathway and a Subsequent Increase in Biosynthetic Performance. Plant Cell, 2005, 17, 2077-2088.	6.6	86
60	Decreased Mitochondrial Activities of Malate Dehydrogenase and Fumarase in Tomato Lead to Altered Root Growth and Architecture via Diverse Mechanisms Â. Plant Physiology, 2009, 149, 653-669.	4.8	85
61	The Hydroxypyruvate-Reducing System in Arabidopsis: Multiple Enzymes for the Same End Â. Plant Physiology, 2011, 155, 694-705.	4.8	82
62	Evolution and Functional Implications of the Tricarboxylic Acid Cycle as Revealed by Phylogenetic Analysis. Genome Biology and Evolution, 2014, 6, 2830-2848.	2.5	82
63	Metallic nanoparticles influence the structure and function of the photosynthetic apparatus in plants. Plant Physiology and Biochemistry, 2018, 130, 408-417.	5.8	82
64	Enhanced levels of vitamin B ₆ increase aerial organ size and positively affect stress tolerance in Arabidopsis. Plant Journal, 2011, 66, 414-432.	5.7	81
65	<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
66	Operation and function of the tricarboxylic acid cycle in the illuminated leaf. Physiologia Plantarum, 2007, 129, 45-56.	5.2	77
67	Enhanced Photosynthesis and Growth in <i>atquac1</i> Knockout Mutants Are Due to Altered Organic Acid Accumulation and an Increase in Both Stomatal and Mesophyll Conductance. Plant Physiology, 2016, 170, 86-101.	4.8	77
68	Engineering Improved Photosynthesis in the Era of Synthetic Biology. Plant Communications, 2020, 1, 100032.	7.7	77
69	Fumarate: Multiple functions of a simple metabolite. Phytochemistry, 2011, 72, 838-843.	2.9	75
70	NAD ⁺ Biosynthesis and Signaling in Plants. Critical Reviews in Plant Sciences, 2018, 37, 259-307.	5.7	71
71	Mild Reductions in Mitochondrial NAD-Dependent Isocitrate Dehydrogenase Activity Result in Altered Nitrate Assimilation and Pigmentation But Do Not Impact Growth. Molecular Plant, 2010, 3, 156-173.	8.3	68
72	On the role of plant mitochondrial metabolism and its impact on photosynthesis in both optimal and sub-optimal growth conditions. Photosynthesis Research, 2014, 119, 141-156.	2.9	68

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76Identification and Characterization of ADNT1, a Novel Mitochondrial Adenine Nucleotide Transporter4.86477Arabidopsis. Plant Physiology, 2008, 148, 1797-1808.6078Orne Arabidopsis. Plant Physiology, 2001, 153, 55-66.6079Qsmosensitive Changes of Carbohydrate Metabolism in Response to Cellulose Biosynthesis Inhibition Å4.86079Metabolic and miRNA Profiling of TMV Infected Plants Reveals Biphasic Temporal Changes. PLoS ONE.2.55980The Central Carbon and Energy Metabolism of Marine Diatoms. Metabolites, 2013, 3, 325-346.2.95981Flux profiling of photosynthetic carbon metabolism in Intact plants. Nature Protocols, 2014, 9,12.05982The genetic architecture of photosynthesis and plant growthä€related traits in tomato. Plant, Cell and Environment, 2018, 41, 327-341.575984Photosynthesis and Better Growth in Nitrogen-Limiting Conditions AA. Plant Molecular Biology, 2007, 63, 719-730.3.95784Photosynthesis and Better Growth in Nitrogen-Limiting Conditions AA. Plant Physiology, 2011, 157, 1114-1127.4.85586Inhibition of aconitase in citrus fruit callus results in a metabolic shift towards amino acid biosynthesis. Planta, 2011, 234, 501-513.5587Cyanobacterial Introgenases: phylogenetic diversity, regulation and functional predictions. Genetics 1.91.95588Pritozopylic Acid Cycle Activity Regulates Tomato Root Growth via Effects on Secondary Cell Wall 4.864	75	From structure to dynamics of metabolic pathways: application to the plant mitochondrial TCA cycle. Bioinformatics, 2007, 23, 1378-1385.	4.1	65
177Virus Induced Cene Silencing of Plastidial Soluble Inorganic Pyrophosphatase Impairs Essential Leaf Anabolic Pathways and Reduces Drought Stress Tolerance in () Nicotiana benthamiana.(): Plant4.860178Comosensitive Changes of Carbohydrate Metabolism in Response to Cellulose Biosynthesis Inhibition Å4.860179Wetabolic and mIRNA Profiling of TMV Infected Plants Reveals Biphasic Temporal Changes. PLoS ONE, 2011, 6, e28466.2.559180The Central Carbon and Energy Metabolism of Marine Diatoms. Metabolites, 2013, 3, 325-346.2.959181Flux profiling of photosynthetic carbon metabolism in Intact plants. Nature Protocols, 2014, 9, 1803-1824.12.069182The genetic architecture of photosynthesis and plant growthä&related traits in tomato. Plant, Cell and 	76	Identification and Characterization of ADNT1, a Novel Mitochondrial Adenine Nucleotide Transporter from Arabidopsis. Plant Physiology, 2008, 148, 1797-1808.	4.8	64
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79Metabolic and mIRNA Profiling of TMV Infected Plants Reveals Biphasic Temporal Changes. PLoS ONE, 2011, 6, e28466.2.55980The Central Carbon and Energy Metabolism of Marine Diatoms. Metabolites, 2013, 3, 325-346.2.95981Flux profiling of photosynthetic carbon metabolism in intact plants. Nature Protocols, 2014, 9.12.05982The genetic architecture of photosynthesis and plant growthäErelated traits in tomato. Plant, Cell and Environment, 2018, 41, 327-341.5.75983cl21A/Asr1 expression influences glucose accumulation in potato tubers. Plant Molecular Biology, 2007, 63, 719-730.3.95784ADeficiency in the Flavoprotein of Arabidopsis Mitochondrial Complex II Results in Elevated Photosynthesis and Better Growth in Nitrogen-Limiting Conditions ÄA. Plant Physiology, 2011, 157, 1114-1127.4.85786Natural genetic variation for morphological and molecular determinants of plant growth and yield. Journal of Experimental Botany, 2016, 67, 2989-3001.4.85587Cyanobacterial Introgenases: phylogenetic diversity, regulation and functional predictions. Genetics 	78	Osmosensitive Changes of Carbohydrate Metabolism in Response to Cellulose Biosynthesis Inhibition Â Â. Plant Physiology, 2012, 159, 105-117.	4.8	60
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82The genetic architecture of photosynthesis and plant growthâ&related traits in tomato. Plant, Cell and Environment, 2018, 41, 327-341.5.75983ci21A/Asr1 expression influences glucose accumulation in potato tubers. Plant Molecular Biology, 2007, 63, 719-730.3.95784ADeficiency in the Flavoprotein of Arabidopsis Mitochondrial Complex II Results in Elevated Photosynthesis and Better Growth in Nitrogen-Limiting Conditions À À. Plant Physiology, 2011, 157, 1114-1127.4.85785Inhibition of aconitase in citrus fruit callus results in a metabolic shift towards amino acid biosynthesis. Planta, 2011, 234, 501-513.3.25586Natural genetic variation for morphological and molecular determinants of plant growth and yield. Journal of Experimental Botany, 2016, 67, 2989-3001.4.85587Cyanobacterial nitrogenases: phylogenetic diversity, regulation and functional predictions. Genetics and Molecular Biology, 2017, 40, 261-275.1.35588Fricarboxylic Acid Cycle Activity Regulates Tomato Root Growth via Effects on Secondary Cell Wall4.854	81	Flux profiling of photosynthetic carbon metabolism in intact plants. Nature Protocols, 2014, 9, 1803-1824.	12.0	59
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84A Deficiency in the Flavoprotein of Arabidopsis Mitochondrial Complex II Results in Elevated Photosynthesis and Better Growth in Nitrogen-Limiting Conditions Â. Plant Physiology, 2011, 157, 114-1127.4.85785Inhibition of aconitase in citrus fruit callus results in a metabolic shift towards amino acid biosynthesis. Planta, 2011, 234, 501-513.3.25586Natural genetic variation for morphological and molecular determinants of plant growth and yield. 	83	ci21A/Asr1 expression influences glucose accumulation in potato tubers. Plant Molecular Biology, 2007, 63, 719-730.	3.9	57
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86Natural genetic variation for morphological and molecular determinants of plant growth and yield.4.85587Cyanobacterial nitrogenases: phylogenetic diversity, regulation and functional predictions. Genetics and Molecular Biology, 2017, 40, 261-275.1.35588Tricarboxylic Acid Cycle Activity Regulates Tomato Root Growth via Effects on Secondary Cell Wall4.854	85	Inhibition of aconitase in citrus fruit callus results in a metabolic shift towards amino acid biosynthesis. Planta, 2011, 234, 501-513.	3.2	55
87Cyanobacterial nitrogenases: phylogenetic diversity, regulation and functional predictions. Genetics and Molecular Biology, 2017, 40, 261-275.1.35588Tricarboxylic Acid Cycle Activity Regulates Tomato Root Growth via Effects on Secondary Cell Wall Production Â. Plant Physiology, 2010, 153, 611-621.4.854	86	Natural genetic variation for morphological and molecular determinants of plant growth and yield. Journal of Experimental Botany, 2016, 67, 2989-3001.	4.8	55
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	88	Tricarboxylic Acid Cycle Activity Regulates Tomato Root Growth via Effects on Secondary Cell Wall Production Â. Plant Physiology, 2010, 153, 611-621.	4.8	54
 Impaired Malate and Fumarate Accumulation Due to the Mutation of the Tonoplast Dicarboxylate Transporter Has Little Effects on Stomatal Behavior. Plant Physiology, 2017, 175, 1068-1081. 	89	Impaired Malate and Fumarate Accumulation Due to the Mutation of the Tonoplast Dicarboxylate Transporter Has Little Effects on Stomatal Behavior. Plant Physiology, 2017, 175, 1068-1081.	4.8	51

Biochemical and molecular changes in response to aluminium-stress in highbush blueberry (Vaccinium) Tj ETQq0 0 0.5.8BT /Overlock 10 1

#	Article	IF	CITATIONS
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92	Unraveling Interfaces between Energy Metabolism and Cell Cycle in Plants. Trends in Plant Science, 2018, 23, 731-747.	8.8	45
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107	Can stable isotope mass spectrometry replace ‎radiolabelled approaches in metabolic studies?. Plant Science, 2016, 249, 59-69	3.6	32
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