Lee J Sweetlove

List of Publications by Year
in descending order

171 papers	21,081 citations	12303 69 h-index	10708 138 g-index
178 all docs	178 docs citations	178 times ranked	18767 citing authors

#	Article	IF	Citations
1	Gas chromatography mass spectrometryâ€“based metabolite profiling in plants. Nature Protocols, 2006, 1, 387-396.	5.5	1,808
2	GMD@CSB.DB: the Golm Metabolome Database. Bioinformatics, 2005, 21, 1635-1638.	1.8	1,247
3	Sucrose Efflux Mediated by SWEET Proteins as a Key Step for Phloem Transport. Science, 2012, 335, 207-211.	6.0	1,085
4	Not just a circle: flux modes in the plant TCA cycle. Trends in Plant Science, 2010, 15, 462-470.	4.3	713
5	Comprehensive metabolic profiling and phenotyping of interspecific introgression lines for tomato improvement. Nature Biotechnology, 2006, 24, 447-454.	9.4	707
6	Metabolic and Signaling Aspects Underpinning the Regulation of Plant Carbon Nitrogen Interactions. Molecular Plant, 2010, 3, 973-996.	3.9	616
7	Photorespiration: players, partners and origin. Trends in Plant Science, 2010, 15, 330-336.	4.3	540
8	Zooming In on a Quantitative Trait for Tomato Yield Using Interspecific Introgressions. Science, 2004, 305, 1786-1789.	6.0	452
9	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.	2.3	432
10	The genome of the stress-tolerant wild tomato species Solanum pennellii. Nature Genetics, 2014, 46, 1034-1038.	9.4	391
11	Enzymes of Glycolysis Are Functionally Associated with the Mitochondrion in Arabidopsis Cells. Plant Cell, 2003, 15, 2140-2151.	3.1	345
12	Enhanced Photosynthetic Performance and Growth as a Consequence of Decreasing Mitochondrial Malate Dehydrogenase Activity in Transgenic Tomato Plants. Plant Physiology, 2005, 137, 611-622.	2.3	335
13	Molecular regulation of seed and fruit set. Trends in Plant Science, 2012, 17, 656-665.	4.3	331
14	Recommendations for Reporting Metabolite Data. Plant Cell, 2011, 23, 2477-2482.	3.1	326
15	Comparative transcriptomics reveals patterns of selection in domesticated and wild tomato. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E2655-62.	3.3	325
16	Metabolic regulation underlying tomato fruit development. Journal of Experimental Botany, 2006, 57, 1883-1897.	2.4	308
17	Deficiency of mitochondrial fumarase activity in tomato plants impairs photosynthesis via an effect on stomatal function. Plant Journal, 2007, 50, 1093-1106.	2.8	294
18	The role of dynamic enzyme assemblies and substrate channelling in metabolic regulation. Nature Communications, 2018, 9, 2136.	5.8	290

#	Article	IF	Citations
19	A Genome-Scale Metabolic Model of Arabidopsis and Some of Its Properties Â Â. Plant Physiology, 2009, 151, 1570-1581.	2.3	273
20	Metabolic control and regulation of the tricarboxylic acid cycle in photosynthetic and heterotrophic plant tissues. Plant, Cell and Environment, 2012, 35, 1-21.	2.8	267
21	De Novo Domestication: An Alternative Route toward New Crops for the Future. Molecular Plant, 2019, 12, 615-631.	3.9	267
22	Glycolytic Enzymes Associate Dynamically with Mitochondria in Response to Respiratory Demand and Support Substrate Channeling. Plant Cell, 2007, 19, 3723-3738.	3.1	249
23	Metabolic profiling of leaves and fruit of wild species tomato: a survey of the Solanum lycopersicum complex. Journal of Experimental Botany, 2004, 56, 297-307.	2.4	240
24	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.	3.3	226
25	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 Â. Plant Physiology, 2009, 150, 1204-1218.	2.3	226
26	Antisense Inhibition of the Iron-Sulphur Subunit of Succinate Dehydrogenase Enhances Photosynthesis and Growth in Tomato via an Organic Acidâ€"Mediated Effect on Stomatal Aperture Â. Plant Cell, 2011, 23, 600-627.	3.1	221
27	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.	2.3	210
28	Mode of Inheritance of Primary Metabolic Traits in Tomato Â. Plant Cell, 2008, 20, 509-523.	3.1	208
29	The Spatial Organization of Metabolism Within the Plant Cell. Annual Review of Plant Biology, 2013, 64, 723-746.	8.6	191
30	Genome-Wide Association in Tomato Reveals 44 Candidate Loci for Fruit Metabolic Traits Â. Plant Physiology, 2014, 165, 1120-1132.	2.3	187
31	A Diel Flux Balance Model Captures Interactions between Light and Dark Metabolism during Day-Night Cycles in C3 and Crassulacean Acid Metabolism Leaves Â Â Â. Plant Physiology, 2014, 165, 917-929.	2.3	181
32	Starch content and yield increase as a result of altering adenylate pools in transgenic plants. Nature Biotechnology, 2002, 20, 1256-1260.	9.4	176
33	Integrative Comparative Analyses of Transcript and Metabolite Profiles from Pepper and Tomato Ripening and Development Stages Uncovers Species-Specific Patterns of Network Regulatory Behavior Â. Plant Physiology, 2012, 159, 1713-1729.	2.3	174
34	Regulation of metabolic networks: understanding metabolic complexity in the systems biology era. New Phytologist, 2005, 168, 9-24.	3.5	149
35	Genetic Determinants of the Network of Primary Metabolism and Their Relationships to Plant Performance in a Maize Recombinant Inbred Line Population. Plant Cell, 2015, 27, 1839-1856.	3.1	149
36	Characterization of a recently evolved flavonol-phenylacyltransferase gene provides signatures of natural light selection in Brassicaceae. Nature Communications, 2016, 7, 12399.	5.8	145

#	Article	IF	Citations
37	Quantitative trait loci controlling rice seed germination under salt stress. Euphytica, 2011, 178, 297-307.	0.6	139
38	Monitoring the in vivo redox state of plant mitochondria: Effect of respiratory inhibitors, abiotic stress and assessment of recovery from oxidative challenge. Biochimica Et Biophysica Acta - Bioenergetics, 2009, 1787, 468-475.	0.5	137
39	A Bypass of Sucrose Synthase Leads to Low Internal Oxygen and Impaired Metabolic Performance in Growing Potato Tubers. Plant Physiology, 2003, 132, 2058-2072.	2.3	135
40	Quantifying Protein Synthesis and Degradation in Arabidopsis by Dynamic ¹³CO₂ Labeling and Analysis of Enrichment in Individual Amino Acids in Their Free Pools and in Protein. Plant Physiology, 2015, 168, 74-93.	2.3	132
41	A Genome-Scale Metabolic Model Accurately Predicts Fluxes in Central Carbon Metabolism under Stress Conditions Â Â. Plant Physiology, 2010, 154, 311-323.	2.3	124
42	Flux-Balance Modeling of Plant Metabolism. Frontiers in Plant Science, 2011, 2, 38.	1.7	124
43	Repression of Growth Regulating Factors by the MicroRNA396 Inhibits Cell Proliferation by UV-B Radiation in <i>Arabidopsis</i> Leaves. Plant Cell, 2013, 25, 3570-3583.	3.1	124
44	Identification of QTLs with main, epistatic and QTLÂÃ—Âenvironment interaction effects for salt tolerance in rice seedlings under different salinity conditions. Theoretical and Applied Genetics, 2012, 125, 807-815.	1.8	122
45	A method for accounting for maintenance costs in flux balance analysis improves the prediction of plant cell metabolic phenotypes under stress conditions. Plant Journal, 2013, 75, 1050-1061.	2.8	121
46	Metabolic Network Fluxes in Heterotrophic Arabidopsis Cells: Stability of the Flux Distribution under Different Oxygenation Conditions Â. Plant Physiology, 2008, 148, 704-718.	2.3	119
47	Remarkable Reproducibility of Enzyme Activity Profiles in Tomato Fruits Grown under Contrasting Environments Provides a Roadmap for Studies of Fruit Metabolism Â Â. Plant Physiology, 2014, 164, 1204-1221.	2.3	119
48	Next-generation strategies for understanding and influencing sourceâ€“sink relations in crop plants. Current Opinion in Plant Biology, 2018, 43, 63-70.	3.5	119
49	The Genetics of Plant Metabolism. Annual Review of Genetics, 2017, 51, 287-310.	3.2	118
50	Characterization of Arabidopsis Lines Deficient in GAPC-1, a Cytosolic NAD-Dependent Glyceraldehyde-3-Phosphate Dehydrogenase. Plant Physiology, 2008, 148, 1655-1667.	2.3	115
51	Comprehensive definition of genome features in <i>Spirodela polyrhiza</i> by highâ€depth physical mapping and shortâ€read <scp>DNA</scp> sequencing strategies. Plant Journal, 2017, 89, 617-635.	2.8	115
52	Return of the Lemnaceae: duckweed as a model plant system in the genomics and postgenomics era. Plant Cell, 2021, 33, 3207-3234.	3.1	111
53	A quantitative trait locus, <i><scp>qSE</scp>3</i>, promotes seed germination and seedling establishment under salinity stress in rice. Plant Journal, 2019, 97, 1089-1104.	2.8	107
54	Synchronization of developmental, molecular and metabolic aspects of sourceâ€“sink interactions. Nature Plants, 2020, 6, 55-66.	4.7	107

#	Article	IF	Citations
55	The enigmatic contribution of mitochondrial function in photosynthesis. Journal of Experimental Botany, 2007, 59, 1675-1684.	2.4	104
56	Protein-protein interactions and metabolite channelling in the plant tricarboxylic acid cycle. Nature Communications, 2017, 8, 15212.	5.8	103
57	The Mitochondrion: An Integration Point of Cellular Metabolism and Signalling. Critical Reviews in Plant Sciences, 2007, 26, 17-43.	2.7	102
58	On the regulation and function of secondary metabolism during fruit development and ripening. Journal of Experimental Botany, 2013, 65, 4599-4611.	2.4	92
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.	3.1	86
60	Engineering Strategies to Boost Crop Productivity by Cutting Respiratory Carbon Loss. Plant Cell, 2019, 31, 297-314.	3.1	86
61	QTL Analysis of Na+ and K+ Concentrations in Roots and Shoots under Different Levels of NaCl Stress in Rice (Oryza sativa L.). PLoS ONE, 2012, 7, e51202.	1.1	85
62	A Highly Efficient Agrobacterium-Mediated Method for Transient Gene Expression and Functional Studies in Multiple Plant Species. Plant Communications, 2020, 1, 100028.	3.6	85
63	Getting to grips with the plant metabolic network. Biochemical Journal, 2008, 409, 27-41.	1.7	84
64	Computational analysis of the productivity potential of CAM. Nature Plants, 2018, 4, 165-171.	4.7	83
65	Characterization of an Arabidopsis thaliana mutant lacking a cytosolic non-phosphorylating glyceraldehyde-3-phosphate dehydrogenase. Plant Molecular Biology, 2006, 61, 945-957.	2.0	82
66	<scp>MSL</scp>1 is a mechanosensitive ion channel that dissipates mitochondrial membrane potential and maintains redox homeostasis in mitochondria during abiotic stress. Plant Journal, 2016, 88, 809-825.	2.8	82
67	A proteomic analysis of plant programmed cell death. Phytochemistry, 2004, 65, 1829-1838.	1.4	81
68	The Extra-Pathway Interactome of the TCA Cycle: Expected and Unexpected Metabolic Interactions. Plant Physiology, 2018, 177, 966-979.	2.3	81
69	Characterization of the Branched-Chain Amino Acid Aminotransferase Enzyme Family in Tomato Â Â. Plant Physiology, 2010, 153, 925-936.	2.3	80
70	The Influence of Fruit Load on the Tomato Pericarp Metabolome in a<i>Solanum chmielewskii</i>Introgression Line Population. Plant Physiology, 2010, 154, 1128-1142.	2.3	80
71	Leaf Energy Balance Requires Mitochondrial Respiration and Export of Chloroplast NADPH in the Light. Plant Physiology, 2019, 180, 1947-1961.	2.3	80
72	UV-B Inhibits Leaf Growth through Changes in Growth Regulating Factors and Gibberellin Levels. Plant Physiology, 2017, 174, 1110-1126.	2.3	79

#	Article	IF	Citations
73	Engineering central metabolism â€" a grand challenge for plant biologists. Plant Journal, 2017, 90, 749-763.	2.8	78
74	Metabolons, enzymeâ€"enzyme assemblies that mediate substrate channeling, and their roles in plant metabolism. Plant Communications, 2021, 2, 100081.	3.6	78
75	Integrating multi-omics data for crop improvement. Journal of Plant Physiology, 2021, 257, 153352.	1.6	78
76	Operation and function of the tricarboxylic acid cycle in the illuminated leaf. Physiologia Plantarum, 2007, 129, 45-56.	2.6	77
77	Resolution by recombination: breaking up Solanum pennellii introgressions. Trends in Plant Science, 2013, 18, 536-538.	4.3	74
78	The regulatory interplay between photorespiration and photosynthesis. Journal of Experimental Botany, 2016, 67, 2923-2929.	2.4	74
79	A tonoplast Glu/Asp/<scp>GABA</scp> exchanger that affects tomato fruit amino acid composition. Plant Journal, 2015, 81, 651-660.	2.8	73
80	Influence of isopropylmalate synthase <i>Os<scp>IPMS</scp>1</i> on seed vigour associated with amino acid and energy metabolism in rice. Plant Biotechnology Journal, 2019, 17, 322-337.	4.1	69
81	Generating a highâ€confidence reference genome map of the Greater Duckweed by integration of cytogenomic, optical mapping, and Oxford Nanopore technologies. Plant Journal, 2018, 96, 670-684.	2.8	64
82	A Subsidiary Cell-Localized Glucose Transporter Promotes Stomatal Conductance and Photosynthesis. Plant Cell, 2019, 31, 1328-1343.	3.1	63
83	Developmental reprogramming by UV-B radiation in plants. Plant Science, 2017, 264, 96-101.	1.7	62
84	Phosphoglycerate Kinases Are Co-Regulated to Adjust Metabolism and to Optimize Growth. Plant Physiology, 2018, 176, 1182-1198.	2.3	62
85	Natural variance in salt tolerance and induction of starch accumulation in duckweeds. Planta, 2015, 241, 1395-1404.	1.6	61
86	Modelling metabolic <scp><scp>CO₂</scp></scp> evolution â€" a fresh perspective on respiration. Plant, Cell and Environment, 2013, 36, 1631-1640.	2.8	59
87	Growth rate correlates negatively with protein turnover in Arabidopsis accessions. Plant Journal, 2017, 91, 416-429.	2.8	58
88	A Deficiency in the Flavoprotein of Arabidopsis Mitochondrial Complex II Results in Elevated Photosynthesis and Better Growth in Nitrogen-Limiting Conditions Â Â. Plant Physiology, 2011, 157, 1114-1127.	2.3	57
89	Genome and time-of-day transcriptome of <i>Wolffia australiana</i> link morphological minimization with gene loss and less growth control. Genome Research, 2021, 31, 225-238.	2.4	56
90	Genome-wide association studies: assessing trait characteristics in model and crop plants. Cellular and Molecular Life Sciences, 2021, 78, 5743-5754.	2.4	54

#	Article	IF	Citations
91	A Method of Accounting for Enzyme Costs in Flux Balance Analysis Reveals Alternative Pathways and Metabolite Stores in an Illuminated Arabidopsis Leaf Â. Plant Physiology, 2015, 169, 1671-1682.	2.3	53
92	Alternative Crassulacean Acid Metabolism Modes Provide Environment-Specific Water-Saving Benefits in a Leaf Metabolic Model. Plant Cell, 2020, 32, 3689-3705.	3.1	48
93	Evolutionary History of Plant Metabolism. Annual Review of Plant Biology, 2021, 72, 185-216.	8.6	48
94	Canalization of Tomato Fruit Metabolism. Plant Cell, 2017, 29, 2753-2765.	3.1	47
95	Metabolite profiles reveal interspecific variation in operation of the Calvinâ€"Benson cycle in both C4 and C3 plants. Journal of Experimental Botany, 2019, 70, 1843-1858.	2.4	47
96	A moonlighting role for enzymes of glycolysis in the co-localization of mitochondria and chloroplasts. Nature Communications, 2020, 11, 4509.	5.8	47
97	Inference and prediction of metabolic network fluxes. Plant Physiology, 2015, 169, pp.01082.2015.	2.3	46
98	The intertwined metabolism during symbiotic nitrogen fixation elucidated by metabolic modelling. Scientific Reports, 2018, 8, 12504.	1.6	45
99	Indoleâ€3â€acetate betaâ€glucosyltransferase <i>OsIAGLU</i> regulates seed vigour through mediating crosstalk between auxin and abscisic acid in rice. Plant Biotechnology Journal, 2020, 18, 1933-1945.	4.1	44
100	Identification of quantitative trait loci for cold tolerance during the germination and seedling stages in rice (Oryza sativa L.). Euphytica, 2011, 181, 405.	0.6	42
101	Multiple Metabolic Innovations and Losses Are Associated with Major Transitions in Land Plant Evolution. Current Biology, 2020, 30, 1783-1800.e11.	1.8	42
102	hi2-1, A QTL which improves harvest index, earliness and alters metabolite accumulation of processing tomatoes. Theoretical and Applied Genetics, 2010, 121, 1587-1599.	1.8	41
103	Plant metabolic gene clusters in the multi-omics era. Trends in Plant Science, 2022, 27, 981-1001.	4.3	41
104	Systems analysis of metabolic phenotypes: what have we learnt?. Trends in Plant Science, 2014, 19, 222-230.	4.3	40
105	Plant cell cultures as heterologous bio-factories for secondary metabolite production. Plant Communications, 2021, 2, 100235.	3.6	40
106	Profiling Primary Metabolites of Tomato Fruit with Gas Chromatography/Mass Spectrometry. Methods in Molecular Biology, 2011, 860, 101-109.	0.4	40
107	Dynamic Quantitative Trait Locus Analysis of Seed Vigor at Three Maturity Stages in Rice. PLoS ONE, 2014, 9, e115732.	1.1	39
108	Advances in metabolic flux analysis toward genome-scale profiling of higher organisms. Bioscience Reports, 2018, 38, .	1.1	36

#	Article	IF	Citations
109	Multiscale computational models can guide experimentation and targeted measurements for crop improvement. Plant Journal, 2020, 103, 21-31.	2.8	36
110	Metabolic flux phenotype of tobacco hairy roots engineered for increased geraniol production. Phytochemistry, 2014, 99, 73-85.	1.4	33
111	<i>Cis</i>â€‐regulated alternative splicing divergence and its potential contribution to environmental responses in Arabidopsis. Plant Journal, 2019, 97, 555-570.	2.8	33
112	The Cassava Sourceâ€"Sink project: opportunities and challenges for crop improvement by metabolic engineering. Plant Journal, 2020, 103, 1655-1665.	2.8	33
113	Proteomic Analysis Reveals Proteins Involved in Seed Imbibition under Salt Stress in Rice. Frontiers in Plant Science, 2016, 7, 2006.	1.7	32
114	The genetic architecture of branched-chain amino acid accumulation in tomato fruits. Journal of Experimental Botany, 2011, 62, 3895-3906.	2.4	31
115	iReMet-flux: constraint-based approach for integrating relative metabolite levels into a stoichiometric metabolic models. Bioinformatics, 2016, 32, i755-i762.	1.8	30
116	Chapter 1 Oxidation of Proteins in Plantsâ€"Mechanisms and Consequences. Advances in Botanical Research, 2009, 52, 1-23.	0.5	29
117	Association mapping of seed germination and seedling growth at three conditions in indica rice (Oryza sativa L.). Euphytica, 2015, 206, 103-115.	0.6	29
118	Silencing of the tomato Sugar Partitioning Affecting protein (<scp>SPA</scp>) modifies sink strength through a shift in leaf sugar metabolism. Plant Journal, 2014, 77, 676-687.	2.8	28
119	Towards model-driven characterization and manipulation of plant lipid metabolism. Progress in Lipid Research, 2020, 80, 101051.	5.3	28
120	Flux balance analysis of metabolism during growth by osmotic cell expansion and its application to tomato fruits. Plant Journal, 2020, 103, 68-82.	2.8	26
121	Genomeâ€‐wide association study reveals that the cupin domain protein OsCDP3.10 regulates seed vigour in rice. Plant Biotechnology Journal, 2022, 20, 485-498.	4.1	26
122	Dynamic quantitative trait locus analysis of seed dormancy at three development stages in rice. Molecular Breeding, 2014, 34, 501-510.	1.0	25
123	The Rice Small Auxin-Up RNA Gene OsSAUR33 Regulates Seed Vigor via Sugar Pathway during Early Seed Germination. International Journal of Molecular Sciences, 2021, 22, 1562.	1.8	25
124	AtPDCD5 Plays a Role in Programmed Cell Death after UV-B Exposure in Arabidopsis. Plant Physiology, 2016, 170, 2444-2460.	2.3	24
125	HAC1 and HAF1 Histone Acetyltransferases Have Different Roles in UV-B Responses in Arabidopsis. Frontiers in Plant Science, 2017, 8, 1179.	1.7	24
126	Does the alternative respiratory pathway offer protection against the adverse effects resulting from climate change?. Journal of Experimental Botany, 2020, 71, 465-469.	2.4	23

#	Article	IF	Citations
127	Plant Abiotic Stress. Scientific World Journal, The, 2013, 2013, 1-2.	0.8	22
128	Rapid Identification of Proteinâ€Protein Interactions in Plants. Current Protocols in Plant Biology, 2019, 4, e20099.	2.8	22
129	Advances in the Identification of Quantitative Trait Loci and Genes Involved in Seed Vigor in Rice. Frontiers in Plant Science, 2021, 12, 659307.	1.7	22
130	Passing the Baton: Substrate Channelling in Respiratory Metabolism. Research, 2018, 2018, 1539325.	2.8	22
131	Advances in the Understanding of Reactive Oxygen Species-Dependent Regulation on Seed Dormancy, Germination, and Deterioration in Crops. Frontiers in Plant Science, 2022, 13, 826809.	1.7	22
132	Physiological characteristics of seed reserve utilization during the early seedling growth in rice. Revista Brasileira De Botanica, 2015, 38, 751-759.	0.5	18
133	Physiological characteristics of cold stratification on seed dormancy release in rice. Plant Growth Regulation, 2019, 89, 131-141.	1.8	18
134	Metabolomics for understanding stomatal movements. Theoretical and Experimental Plant Physiology, 2019, 31, 91-102.	1.1	18
135	Arabidopsis E2Fc is required for the <scp>DNA</scp> damage response under <scp>UV</scp>â€B radiation epistatically over the micro<scp>RNA</scp>396 and independently of E2Fe. Plant Journal, 2019, 97, 749-764.	2.8	18
136	A <i>Solanum neorickii</i> introgression population providing a powerful complement to the extensively characterized <i>Solanum pennellii</i> population. Plant Journal, 2019, 97, 391-403.	2.8	18
137	Natural variation of H3K27me3 modification in two <i>Arabidopsis</i> accessions and their hybrid. Journal of Integrative Plant Biology, 2016, 58, 466-474.	4.1	17
138	Microcompartmentation of cytosolic aldolase by interaction with the actin cytoskeleton in Arabidopsis. Journal of Experimental Botany, 2017, 68, 885-898.	2.4	16
139	A <i>Solanum lycopersicoides</i> reference genome facilitates insights into tomato specialized metabolism and immunity. Plant Journal, 2022, 110, 1791-1810.	2.8	16
140	Multi-gene metabolic engineering of tomato plants results in increased fruit yield up to 23%. Scientific Reports, 2020, 10, 17219.	1.6	15
141	The metabolic changes that effect fruit quality during tomato fruit ripening. Molecular Horticulture, 2022, 2, .	2.3	15
142	Stable and Temporary Enzyme Complexes and Metabolons Involved in Energy and Redox Metabolism. Antioxidants and Redox Signaling, 2021, 35, 788-807.	2.5	14
143	A genomeâ€wide association study reveals that the 2â€oxoglutarate/malate translocator mediates seed vigor in rice. Plant Journal, 2021, 108, 478-491.	2.8	13
144	The knowns and unknowns of intracellular partitioning of carbon and nitrogen, with focus on the organic acid-mediated interplay between mitochondrion and chloroplast. Journal of Plant Physiology, 2021, 266, 153521.	1.6	13

#	Article	IF	Citations
145	A genome-wide association study reveals that the glucosyltransferase OsIAGLU regulates root growth in rice. Journal of Experimental Botany, 2021, 72, 1119-1134.	2.4	12
146	Identification and Characterization of Quantitative Trait Loci for Shattering in Japonica Rice Landrace Jiucaiqing from Taihu Lake Valley, China. Plant Genome, 2016, 9, plantgenome2016.03.0034.	1.6	11
147	Modelâ€assisted identification of metabolic engineering strategies for <i>Jatropha curcas</i> lipid pathways. Plant Journal, 2020, 104, 76-95.	2.8	11
148	AtCAFâ€1 mutants show different DNA damage responses after ultravioletâ€B than those activated by other genotoxic agents in leaves. Plant, Cell and Environment, 2019, 42, 2730-2745.	2.8	10
149	From Affinity to Proximity Techniques to Investigate Protein Complexes in Plants. International Journal of Molecular Sciences, 2021, 22, 7101.	1.8	10
150	Starch synthesis in transgenic potato tubers with increased 3-phosphoglyceric acid content as a consequence of increased 6-phosphofructokinase activity. Planta, 2001, 213, 478-482.	1.6	9
151	Acquisition of desiccation tolerance during seed development is associated with oxidative processes in rice. Botany, 2016, 94, 91-101.	0.5	9
152	Identification of QTLs with Additive, Epistatic, and QTL Ã— Seed Maturity Interaction Effects for Seed Vigor in Rice. Plant Molecular Biology Reporter, 2016, 34, 160-171.	1.0	9
153	A hybrid kinetic and constraintâ€based model of leaf metabolism allows predictions of metabolic fluxes in different environments. Plant Journal, 2022, 109, 295-313.	2.8	9
154	Ultraviolet-B Radiation Represses Primary Root Elongation by Inhibiting Cell Proliferation in the Meristematic Zone of Arabidopsis Seedlings. Frontiers in Plant Science, 2022, 13, 829336.	1.7	8
155	IntEResting structures: formation and applications of organized smooth endoplasmic reticulum in plant cells. Plant Physiology, 2021, 185, 550-561.	2.3	7
156	Plant biotechnology for sustainable agriculture and food safety. Journal of Plant Physiology, 2021, 261, 153416.	1.6	7
157	A genome-wide association study reveals that the cytochrome b5 involved in seed reserve mobilization during seed germination in rice. Theoretical and Applied Genetics, 2021, 134, 4067-4076.	1.8	7
158	E2Fb and E2Fa transcription factors independently regulate the DNA damage response after UVâ€B exposure in Arabidopsis. Plant Journal, 2021, , .	2.8	7
159	Leaf Mutant 7 Encoding Heat Shock Protein OsHSP40 Regulates Leaf Size in Rice. International Journal of Molecular Sciences, 2022, 23, 4446.	1.8	7
160	Synthetic biology for basic and applied plant research. Plant Journal, 2016, 87, 3-4.	2.8	6
161	The Assembly of Super-Complexes in the Plant Chloroplast. Biomolecules, 2021, 11, 1839.	1.8	5
162	Suppression of metabolite shuttles for export of chloroplast and mitochondrial ATP and NADPH increases the cytosolic NADH:NAD+ ratio in tobacco leaves in the dark. Journal of Plant Physiology, 2022, 268, 153578.	1.6	4

#	Article	IF	Citations
163	Cytochrome c Deficiency Differentially Affects the In Vivo Mitochondrial Electron Partitioning and Primary Metabolism Depending on the Photoperiod. Plants, 2021, 10, 444.	1.6	3
164	The Bacillus subtilis glutamate anti-metabolon. Nature Metabolism, 2022, 4, 161-162.	5.1	3
165	Editorial. Plant Journal, 2018, 94, 3-5.	2.8	2
166	Extending the cascade: identification of a mitogenâ€activated protein kinase phosphatase playing a key role in rice yield. Plant Journal, 2018, 95, 935-936.	2.8	1
167	Editorial. Plant Journal, 2017, 91, 359-360.	2.8	0
168	SEB â€Wileyâ€•TPJ awards for outstanding papers published in TPJ in 2018. Plant Journal, 2019, 97, 1001-1002.	2.8	0
169	Editorial: Introducing TPJ Fellowships for early stage Principal Investigators. Plant Journal, 2019, 100, 435-435.	2.8	0
170	Journal Flexibility in the Troubling Times of COVID-19. Plant Physiology, 2020, 182, 1795-1795.	2.3	0
171	Journal Flexibility in the Troubling Times of COVID-19. Plant Cell, 2020, 32, 1337-1337.	3.1	0