Wagner L AraÃºjo

List of Publications by Year
in descending order

192	11,135	31976	36028
papers	citations	53 h-index	97 g-index

280	280	280	12463
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Guidelines for the use and interpretation of assays for monitoring autophagy (4th) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 742 Td	9.1	1,430
2	Amino Acid Catabolism in Plants. Molecular Plant, 2015, 8, 1563-1579.	8.3	898
3	Protein degradation â€“ an alternative respiratory substrate for stressed plants. Trends in Plant Science, 2011, 16, 489-498.	8.8	367
4	Glycolysis and the Tricarboxylic Acid Cycle Are Linked by Alanine Aminotransferase during Hypoxia Induced by Waterlogging of Lotus japonicus. Plant Physiology, 2010, 152, 1501-1513.	4.8	346
5	Identification of the 2-Hydroxyglutarate and Isovaleryl-CoA Dehydrogenases as Alternative Electron Donors Linking Lysine Catabolism to the Electron Transport Chain of Arabidopsis Mitochondria Â. Plant Cell, 2010, 22, 1549-1563.	6.6	296
6	The role of amino acid metabolism during abiotic stress release. Plant, Cell and Environment, 2019, 42, 1630-1644.	5.7	278
7	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
8	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
9	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
10	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.	6.6	221
11	Regulation of respiration in plants: A role for alternative metabolic pathways. Journal of Plant Physiology, 2011, 168, 1434-1443.	3.5	189
12	Thioredoxin, a master regulator of the tricarboxylic acid cycle in plant mitochondria. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E1392-400.	7.1	179
13	Modifications in Organic Acid Profiles During Fruit Development and Ripening: Correlation or Causation?. Frontiers in Plant Science, 2018, 9, 1689.	3.6	152
14	Regulation of the mitochondrial tricarboxylic acid cycle. Current Opinion in Plant Biology, 2013, 16, 335-343.	7.1	141
15	The influence of alternative pathways of respiration that utilize branchedâ€chain amino acids following water shortage in Arabidopsis. Plant, Cell and Environment, 2016, 39, 1304-1319.	5.7	139
16	nMAT1, a nuclearâ€encoded maturase involved in the transâ€splicing of nad1 intron 1, is essential for mitochondrial complex I assembly and function. Plant Journal, 2012, 71, 413-426.	5.7	133
17	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
18	Evolution and regulation of nitrogen flux through compartmentalized metabolic networks in a marine diatom. Nature Communications, 2019, 10, 4552.	12.8	116

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19	Capsaicinoids: Pungency beyond Capsicum. Trends in Plant Science, 2019, 24, 109-120.	8.8	108
20	Targeting Mitochondrial Metabolism and Machinery as a Means to Enhance Photosynthesis. Plant Physiology, 2011, 155, 101-107.	4.8	105
21	Orchestration of Thiamin Biosynthesis and Central Metabolism by Combined Action of the Thiamin Pyrophosphate Riboswitch and the Circadian Clock in Arabidopsis Â Â. Plant Cell, 2013, 25, 288-307.	6.6	98
22	Autophagy Deficiency Compromises Alternative Pathways of Respiration following Energy Deprivation in Arabidopsis thaliana. Plant Physiology, 2017, 175, 62-76.	4.8	98
23	Unusual cyanobacterial TCA cycles: not broken just different. Trends in Plant Science, 2012, 17, 503-509.	8.8	97
24	Tobacco guard cells fix <scp>CO</scp>₂ by both <scp>Rubisco</scp> and <scp>PEP</scp>case while sucrose acts as a substrate during lightâ€induced stomatal opening. Plant, Cell and Environment, 2015, 38, 2353-2371.	5.7	95
25	Reversal of senescence by N resupply to N-starved Arabidopsis thaliana: transcriptomic and metabolomic consequences. Journal of Experimental Botany, 2014, 65, 3975-3992.	4.8	94
26	Silicon nutrition alleviates the negative impacts of arsenic on the photosynthetic apparatus of rice leaves: an analysis of the key limitations of photosynthesis. Physiologia Plantarum, 2014, 152, 355-366.	5.2	94
27	Photosynthetic and metabolic acclimation to repeated drought events play key roles in drought tolerance in coffee. Journal of Experimental Botany, 2017, 68, 4309-4322.	4.8	94
28	Control of stomatal aperture. Plant Signaling and Behavior, 2011, 6, 1305-1311.	2.4	92
29	Morphological and physiological responses of two coffee progenies to soil water availability. Journal of Plant Physiology, 2007, 164, 1639-1647.	3.5	91
30	2-Oxoglutarate: linking TCA cycle function with amino acid, glucosinolate, flavonoid, alkaloid, and gibberellin biosynthesis. Frontiers in Plant Science, 2014, 5, 552.	3.6	91
31	Insecticidal effect of nanoencapsulated essential oils from Zanthoxylum rhoifolium (Rutaceae) in Bemisia tabaci populations. Industrial Crops and Products, 2015, 70, 301-308.	5.2	89
32	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
33	In fieldâ€grown coffee trees sourceâ€“sink manipulation alters photosynthetic rates, independently of carbon metabolism, via alterations in stomatal function. New Phytologist, 2008, 178, 348-357.	7.3	87
34	The multifaceted role of aspartate-family amino acids in plant metabolism. Journal of Experimental Botany, 2012, 63, 4995-5001.	4.8	87
35	Catabolism of Branched Chain Amino Acids Supports Respiration but Not Volatile Synthesis in Tomato Fruits. Molecular Plant, 2012, 5, 366-375.	8.3	85
36	Translatome and metabolome effects triggered by gibberellins during rosette growth in Arabidopsis. Journal of Experimental Botany, 2012, 63, 2769-2786.	4.8	82

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37	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
38	Zinc deficiency affects physiological and anatomical characteristics in maize leaves. Journal of Plant Physiology, 2015, 183, 138-143.	3.5	79
39	Nitrogen metabolism in cyanobacteria: metabolic and molecular control, growth consequences and biotechnological applications. Critical Reviews in Microbiology, 2018, 44, 541-560.	6.1	78
40	Enhanced Photosynthesis and Growth in atquac1 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
41	Metabolism within the specialized guard cells of plants. New Phytologist, 2017, 216, 1018-1033.	7.3	77
42	Engineering Improved Photosynthesis in the Era of Synthetic Biology. Plant Communications, 2020, 1, 100032.	7.7	77
43	Fumarate: Multiple functions of a simple metabolite. Phytochemistry, 2011, 72, 838-843.	2.9	75
44	The role of silicon in metabolic acclimation of rice plants challenged with arsenic. Environmental and Experimental Botany, 2016, 123, 22-36.	4.2	73
45	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
46	Alteration of mitochondrial protein complexes in relation to metabolic regulation under short-term oxidative stress in Arabidopsis seedlings. Phytochemistry, 2011, 72, 1081-1091.	2.9	66
47	Downregulation of the Î´-Subunit Reduces Mitochondrial ATP Synthase Levels, Alters Respiration, and Restricts Growth and Gametophyte Development in Arabidopsis. Plant Cell, 2012, 24, 2792-2811.	6.6	66
48	The complex role of mitochondrial metabolism in plant aluminum resistance. Trends in Plant Science, 2014, 19, 399-407.	8.8	66
49	Photosynthesis impairment in cassava leaves in response to nitrogen deficiency. Plant and Soil, 2003, 257, 417-423.	3.7	63
50	Silicon improves rice grain yield and photosynthesis specifically when supplied during the reproductive growth stage. Journal of Plant Physiology, 2016, 206, 125-132.	3.5	62
51	Sucrose breakdown within guard cells provides substrates for glycolysis and glutamine biosynthesis during lightâ€induced stomatal opening. Plant Journal, 2018, 94, 583-594.	5.7	61
52	The genetic architecture of photosynthesis and plant growthâ€related traits in tomato. Plant, Cell and Environment, 2018, 41, 327-341.	5.7	59
53	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.	4.8	57
54	On the role of the mitochondrial 2-oxoglutarate dehydrogenase complex in amino acid metabolism. Amino Acids, 2013, 44, 683-700.	2.7	55

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55	Natural genetic variation for morphological and molecular determinants of plant growth and yield. Journal of Experimental Botany, 2016, 67, 2989-3001.	4.8	55
56	Cyanobacterial nitrogenases: phylogenetic diversity, regulation and functional predictions. Genetics and Molecular Biology, 2017, 40, 261-275.	1.3	55
57	Limitations to photosynthesis in coffee leaves from different canopy positions. Plant Physiology and Biochemistry, 2008, 46, 884-890.	5.8	54
58	Tricarboxylic Acid Cycle Activity Regulates Tomato Root Growth via Effects on Secondary Cell Wall Production Â Â. Plant Physiology, 2010, 153, 611-621.	4.8	54
59	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
60	Downregulation of mitochondrial alternative oxidase affects chloroplast function, redox status and stress response in a marine diatom. New Phytologist, 2019, 221, 1303-1316.	7.3	51
61	Virus-induced gene silencing of pea CHLI and CHLD affects tetrapyrrole biosynthesis, chloroplast development and the primary metabolic network. Plant Physiology and Biochemistry, 2013, 65, 17-26.	5.8	46
62	Action of Gibberellins on Growth and Metabolism of Arabidopsis Plants Associated with High Concentration of Carbon Dioxide Â. Plant Physiology, 2012, 160, 1781-1794.	4.8	45
63	Lightâ€responsive metabolite and transcript levels are maintained following a darkâ€adaptation period in leaves of Arabidopsis thaliana. New Phytologist, 2012, 195, 136-148.	7.3	44
64	Suppression of the External Mitochondrial NADPH Dehydrogenase, NDB1, in Arabidopsis thaliana Affects Central Metabolism and Vegetative Growth. Molecular Plant, 2014, 7, 356-368.	8.3	43
65	Selenium downregulates auxin and ethylene biosynthesis in rice seedlings to modify primary metabolism and root architecture. Planta, 2019, 250, 333-345.	3.2	43
66	Growth inhibition by selenium is associated with changes in primary metabolism and nutrient levels in Arabidopsis thaliana. Plant, Cell and Environment, 2016, 39, 2235-2246.	5.7	41
67	Growth and metabolic adjustments in response to gibberellin deficiency in drought stressed tomato plants. Environmental and Experimental Botany, 2019, 159, 95-107.	4.2	41
68	Suppression of NDA-Type Alternative Mitochondrial NAD(P)H Dehydrogenases in Arabidopsis thaliana Modifies Growth and Metabolism, but not High Light Stimulation of Mitochondrial Electron Transport. Plant and Cell Physiology, 2014, 55, 881-896.	3.1	40
69	Analysis of a Range of Catabolic Mutants Provides Evidence That Phytanoyl-Coenzyme A Does Not Act as a Substrate of the Electron-Transfer Flavoprotein/Electron-Transfer Flavoprotein:Ubiquinone Oxidoreductase Complex in Arabidopsis during Dark-Induced Senescence Â Â. Plant Physiology, 2011, 157, 55-69.	4.8	39
70	In High-Light-Acclimated Coffee Plants the Metabolic Machinery Is Adjusted to Avoid Oxidative Stress Rather than to Benefit from Extra Light Enhancement in Photosynthetic Yield. PLoS ONE, 2014, 9, e94862.	2.5	39
71	New insights into photorespiration obtained from metabolomics. Plant Biology, 2013, 15, 656-666.	3.8	37
72	Mesophyll conductance: the leaf corridors for photosynthesis. Biochemical Society Transactions, 2020, 48, 429-439.	3.4	37

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73	Engineering photosynthesis: progress and perspectives. F1000Research, 2017, 6, 1891.	1.6	37
74	Eating Away at ROS to Regulate Stomatal Opening. Trends in Plant Science, 2020, 25, 220-223.	8.8	36
75	Effects of Nitrate Nutrition on Nitrogen Metabolism in Cassava. Biologia Plantarum, 2004, 48, 67-72.	1.9	35
76	Photosynthetic limitations in coffee plants are chiefly governed by diffusive factors. Trees - Structure and Function, 2012, 26, 459-468.	1.9	35
77	Multifaceted Roles of Plant Autophagy in Lipid and Energy Metabolism. Trends in Plant Science, 2020, 25, 1141-1153.	8.8	35
78	Boron: More Than an Essential Element for Land Plants?. Frontiers in Plant Science, 2020, 11, 610307.	3.6	35
79	Inhibition of mitochondrial 2-oxoglutarate dehydrogenase impairs viability of cancer cells in a cell-specific metabolism-dependent manner. Oncotarget, 2016, 7, 26400-26421.	1.8	35
80	SELF-PRUNING Acts Synergistically with DIAGEOTROPICA to Guide Auxin Responses and Proper Growth Form. Plant Physiology, 2018, 176, 2904-2916.	4.8	34
81	The mitochondrial <scp>NAD</scp>⁺ transporter (<scp>NDT</scp>1) plays important roles in cellular <scp>NAD</scp>⁺ homeostasis in Arabidopsis thaliana. Plant Journal, 2019, 100, 487-504.	5.7	34
82	Thioredoxin h2 contributes to the redox regulation of mitochondrial photorespiratory metabolism. Plant, Cell and Environment, 2020, 43, 188-208.	5.7	34
83	Exploring the metabolic and physiological diversity of native microalgal strains (Chlorophyta) isolated from tropical freshwater reservoirs. Algal Research, 2017, 28, 139-150.	4.6	33
84	Can stable isotope mass spectrometry replace â€Žradiolabelled approaches in metabolic studies?. Plant Science, 2016, 249, 59-69.	3.6	32
85	Utilizing systems biology to unravel stomatal function and the hierarchies underpinning its control. Plant, Cell and Environment, 2015, 38, 1457-1470.	5.7	31
86	Phosphonate Analogs of 2-Oxoglutarate Perturb Metabolism and Gene Expression in Illuminated Arabidopsis Leaves. Frontiers in Plant Science, 2012, 3, 114.	3.6	30
87	Metabolic alterations triggered by silicon nutrition: Is there a signaling role for silicon?. Plant Signaling and Behavior, 2013, 8, e22523.	2.4	30
88	Alternative Carbon Sources for Isoprene Emission. Trends in Plant Science, 2018, 23, 1081-1101.	8.8	30
89	The photosynthesis game is in the "inter-play": Mechanisms underlying CO2 diffusion in leaves. Environmental and Experimental Botany, 2020, 178, 104174.	4.2	28
90	Two alanine aminotranferases link mitochondrial glycolate oxidation to the major photorespiratory pathway in Arabidopsis and rice. Journal of Experimental Botany, 2012, 63, 2705-2716.	4.8	27

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91	Nitrogen differentially modulates photosynthesis, carbon allocation and yield related traits in two contrasting Capsicum chinense cultivars. Plant Science, 2019, 283, 224-237.	3.6	26
92	Insights into ABA-mediated regulation of guard cell primary metabolism revealed by systems biology approaches. Progress in Biophysics and Molecular Biology, 2019, 146, 37-49.	2.9	26
93	The Mitochondrial Thioredoxin System Contributes to the Metabolic Responses Under Drought Episodes in Arabidopsis. Plant and Cell Physiology, 2019, 60, 213-229.	3.1	26
94	Carbon Partitioning and Assimilation as Affected by Nitrogen Deficiency in Cassava. Photosynthetica, 2003, 41, 201-207.	1.7	25
95	Leveraging metabolomics for functional investigations in sequenced marine diatoms. Trends in Plant Science, 2012, 17, 395-403.	8.8	23
96	Autophagy is required for lipid homeostasis during dark-induced senescence. Plant Physiology, 2021, 185, 1542-1558.	4.8	22
97	Thioredoxin-mediated regulation of (photo)respiration and central metabolism. Journal of Experimental Botany, 2021, 72, 5987-6002.	4.8	22
98	Analysis of knockout mutants reveals non-redundant functions of poly(ADP-ribose)polymerase isoforms in Arabidopsis. Plant Molecular Biology, 2015, 89, 319-338.	3.9	21
99	Characterization of Nanospheres Containing Zanthoxylum riedelianum Fruit Essential Oil and Their Insecticidal and Deterrent Activities against Bemisia tabaci (Hemiptera: Aleyrodidae). Molecules, 2018, 23, 2052.	3.8	21
100	Changes in intracellular NAD status affect stomatal development in an abscisic acidâ€dependent manner. Plant Journal, 2020, 104, 1149-1168.	5.7	21
101	In natura and nanoencapsulated essential oils from Xylopia aromatica reduce oviposition of Bemisia tabaci in Phaseolus vulgaris. Journal of Pest Science, 2020, 93, 807-821.	3.7	21
102	Analysis of metabolic alterations in Arabidopsis following changes in the carbon dioxide and oxygen partial pressures. Journal of Integrative Plant Biology, 2014, 56, 941-959.	8.5	20
103	Impaired Cyclic Electron Flow around Photosystem I Disturbs High-Light Respiratory Metabolism. Plant Physiology, 2016, 172, 2176-2189.	4.8	20
104	Model-based Confirmation of Alternative Substrates of Mitochondrial Electron Transport Chain. Journal of Biological Chemistry, 2012, 287, 11122-11131.	3.4	19
105	Molecular identification of a further branched-chain aminotransferase 7 (BCAT7) in tomato plants. Journal of Plant Physiology, 2012, 169, 437-443.	3.5	19
106	Exploring natural variation of photosynthetic, primary metabolism and growth parameters in a large panel of Capsicum chinense accessions. Planta, 2015, 242, 677-691.	3.2	19
107	Downregulation of a Mitochondrial NAD+ Transporter (NDT2) Alters Seed Production and Germination in Arabidopsis. Plant and Cell Physiology, 2020, 61, 897-908.	3.1	19
108	Extending the ecological distribution of Desmonostoc genus: proposal of Desmonostoc salinum sp. nov., a novel Cyanobacteria from a salineâ€“alkaline lake. International Journal of Systematic and Evolutionary Microbiology, 2018, 68, 2770-2782.	1.7	19

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109	Physiological, metabolic, and stomatal adjustments in response to salt stress in Jatropha curcas. Plant Physiology and Biochemistry, 2021, 168, 116-127.	5.8	19
110	Metabolomics for understanding stomatal movements. Theoretical and Experimental Plant Physiology, 2019, 31, 91-102.	2.4	18
111	Selenium uptake and grain nutritional quality are affected by nitrogen fertilization in rice (Oryza) Tj ETQq1 1 0.784314 rgBT /Overlock	5.6	18
112	Prunus Hexokinase 3 genes alter primary C-metabolism and promote drought and salt stress tolerance in Arabidopsis transgenic plants. Scientific Reports, 2021, 11, 7098.	3.3	18
113	Analysis of Short-Term Metabolic Alterations in Arabidopsis Following Changes in the Prevailing Environmental Conditions. Molecular Plant, 2014, 7, 893-911.	8.3	17
114	Modulation of auxin signalling through DIAGETROPICA and ENTIRE differentially affects tomato plant growth via changes in photosynthetic and mitochondrial metabolism. Plant, Cell and Environment, 2019, 42, 448-465.	5.7	17
115	On the role of the plant mitochondrial thioredoxin system during abiotic stress. Plant Signaling and Behavior, 2019, 14, 1592536.	2.4	17
116	Increased urea availability promotes adjustments in C/N metabolism and lipid content without impacting growth in Chlamydomonas reinhardtii. Metabolomics, 2019, 15, 31.	3.0	17
117	Differential impact of amino acids on OXPHOS system activity following carbohydrate starvation in Arabidopsis cell suspensions. Physiologia Plantarum, 2017, 161, 451-467.	5.2	16
118	The Arabidopsis E1 subunit of the 2-oxoglutarate dehydrogenase complex modulates plant growth and seed production. Plant Molecular Biology, 2019, 101, 183-202.	3.9	16
119	Differential root and shoot responses in the metabolism of tomato plants exhibiting reduced levels of gibberellin. Environmental and Experimental Botany, 2019, 157, 331-343.	4.2	16
120	A Novel Mechanism, Linked to Cell Density, Largely Controls Cell Division in Synechocystis. Plant Physiology, 2017, 174, 2166-2182.	4.8	15
121	To Bring Flowers or Do a Runner: Gibberellins Make the Decision. Molecular Plant, 2018, 11, 4-6.	8.3	15
122	Data-Mining Bioinformatics: Connecting Adenylate Transport and Metabolic Responses to Stress. Trends in Plant Science, 2018, 23, 961-974.	8.8	15
123	Decreasing the Mitochondrial Synthesis of Malate in Potato Tubers Does Not Affect Plastidial Starch Synthesis, Suggesting That the Physiological Regulation of ADPglucose Pyrophosphorylase Is Context Dependent Â Â. Plant Physiology, 2012, 160, 2227-2238.	4.8	14
124	Comparative evaluation of different preservation methods for cyanobacterial strains. Journal of Applied Phycology, 2013, 25, 919-929.	2.8	14
125	Bundle sheath extensions affect leaf structural and physiological plasticity in response to irradiance. Plant, Cell and Environment, 2019, 42, 1575-1589.	5.7	14
126	Starch accumulation does not lead to feedback photosynthetic downregulation in girdled coffee branches under varying source-to-sink ratios. Trees - Structure and Function, 2020, 34, 1-16.	1.9	14

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127	Comprehensive metabolic reprograming in freshwater Nitzschia palea strains undergoing nitrogen starvation is likely associated with its ecological origin. Algal Research, 2016, 18, 116-126.	4.6	13
128	Essential oil repellent action of plants of the genus Zanthoxylum against Bemisia tabaci biotype B (Homoptera: Aleyrodidae). Scientia Horticulturae, 2017, 226, 327-332.	3.6	13
129	Current status of the multinational Arabidopsis community. Plant Direct, 2020, 4, e00248.	1.9	13
130	Biochemical and functional characterization of a mitochondrial citrate carrier in Arabidopsis thaliana. Biochemical Journal, 2020, 477, 1759-1777.	3.7	13
131	Characterization of maize leaf pyruvate orthophosphate dikinase using high throughput sequencing. Journal of Integrative Plant Biology, 2018, 60, 670-690.	8.5	12
132	Discriminating the Function(s) of Guard Cell ALMT Channels. Trends in Plant Science, 2018, 23, 649-651.	8.8	12
133	Physiological parameters and plasticity as key factors to understand pioneer and late successional species in the Atlantic Rainforest. Acta Physiologiae Plantarum, 2019, 41, 1.	2.1	12
134	Stomata opening and productiveness response of fresh market tomato under different irrigation intervals. Scientia Horticulturae, 2019, 255, 86-95.	3.6	12
135	Physiological and metabolic bases of increased growth in the tomato ethylene-insensitive mutant Never ripe: extending ethylene signaling functions. Plant Cell Reports, 2021, 40, 1377-1393.	5.6	12
136	Ethylene coordinates seed germination behavior in response to low soil pH in Stylosanthes humilis. Plant and Soil, 2018, 425, 87-100.	3.7	11
137	The novel strain Desmonostoc salinum <scp>CCM</scp>â€<scp>UFV</scp>059 shows higher salt and desiccation resistance compared to the model strain Nostoc sp. <scp>PCC</scp>7120. Journal of Phycology, 2020, 56, 496-506.	2.3	10
138	Differential development times of galls induced by Leptocybe invasa (Hymenoptera: Eulophidae) reveal differences in susceptibility between two Eucalyptus clones. Pest Management Science, 2021, 77, 1042-1051.	3.4	10
139	Metabolic and physiological adjustments of maize leaves in response to aluminum stress. Theoretical and Experimental Plant Physiology, 2020, 32, 133-145.	2.4	9
140	Analysis of Kinetic Labeling of Amino Acids and Organic Acids by GC-MS. Methods in Molecular Biology, 2014, 1090, 107-119.	0.9	9
141	The significance of WRKY45 transcription factor in metabolic adjustments during darkâ€induced leaf senescence. Plant, Cell and Environment, 2022, 45, 2682-2695.	5.7	9
142	Functional genomics tools applied to plant metabolism: a survey on plant respiration, its connections and the annotation of complex gene functions. Frontiers in Plant Science, 2012, 3, 210.	3.6	8
143	Physiological and thylakoid ultrastructural changes in cyanobacteria in response to toxic manganese concentrations. Ecotoxicology, 2019, 28, 1009-1021.	2.4	8
144	Elevated CO2 induces age-dependent restoration of growth and metabolism in gibberellin-deficient plants. Planta, 2019, 250, 1147-1161.	3.2	8

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145	Alternative fertilizer-based growth media support high lipid contents without growth impairment in Scenedesmus obliquus BR003. Bioprocess and Biosystems Engineering, 2020, 43, 1123-1131.	3.4	8
146	Downregulation of the E2 Subunit of 2-Oxoglutarate Dehydrogenase Modulates Plant Growth by Impacting Carbonâ€“Nitrogen Metabolism inArabidopsis thaliana. Plant and Cell Physiology, 2021, 62, 798-814.	3.1	8
147	Arsenic-contaminated sediment from mining areas as source of morphological and phylogenetic distinct cyanobacterial lineages. Algal Research, 2019, 42, 101589.	4.6	7
148	Guard cell regulation: pulling the strings behind the scenes. Trends in Plant Science, 2021, 26, 1093-1095.	8.8	7
149	Exogenous ethylene reduces growth via alterations in central metabolism and cell wall composition in tomato (Solanum lycopersicum). Journal of Plant Physiology, 2021, 263, 153460.	3.5	7
150	Specific leaf area is modulated by nitrogen via changes in primary metabolism and parenchymal thickness in pepper. Planta, 2021, 253, 16.	3.2	7
151	Metabolic and DNA checkpoints for the enhancement of Al tolerance. Journal of Hazardous Materials, 2022, 430, 128366.	12.4	7
152	A long and stressful day: Photoperiod shapes aluminium tolerance in plants. Journal of Hazardous Materials, 2022, 432, 128704.	12.4	7
153	Measurement of Tricarboxylic Acid Cycle Enzyme Activities in Plants. Methods in Molecular Biology, 2017, 1670, 167-182.	0.9	6
154	How Does European Mistletoe Survive Without Complex I?. Trends in Plant Science, 2018, 23, 847-850.	8.8	6
155	Control of waterâ€use efficiency by florigen. Plant, Cell and Environment, 2020, 43, 76-86.	5.7	6
156	How do wheat plants cope with Pyricularia oryzae infection? A physiological and metabolic approach. Planta, 2020, 252, 24.	3.2	6
157	Developmental metabolomics to decipher and improve fleshy fruit quality. Advances in Botanical Research, 2021, 98, 3-34.	1.1	6
158	Biochemical and physiological aspects of restinga herbaceous plants tolerance to iron ore tailing plume along the coastal region of EspÃrito Santo-Brazil. Environmental and Experimental Botany, 2021, 191, 104618.	4.2	6
159	InfluÃªncia do nitrato e do amÃ´nio sobre a fotossÃntese e a concentraÃ§Ã£o de compostos nitrogenados em mandioca. Ciencia Rural, 2008, 38, 643-649.	0.5	6
160	The Arabidopsis electronâ€transfer flavoprotein:ubiquinone oxidoreductase is required during normal seed development and germination. Plant Journal, 2022, 109, 196-214.	5.7	6
161	Heterosis and reciprocal effects for agronomic and fruit traits in Capsicum pepper hybrids. Scientia Horticulturae, 2022, 295, 110821.	3.6	6
162	An L,L-diaminopimelate aminotransferase mutation leads to metabolic shifts and growth inhibition in Arabidopsis. Journal of Experimental Botany, 2018, 69, 5489-5506.	4.8	5

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163	Source Strength Modulates Fruit Set by Starch Turnover and Export of Both Sucrose and Amino Acids in Pepper. Plant and Cell Physiology, 2019, 60, 2319-2330.	3.1	5
164	MudanÃ§as metabÃ³licas apÃ³s recondicionamento a 15Â°C de tubÃ©rculos de batata armazenados a baixa temperatura. Horticultura Brasileira, 2004, 22, 700-705.	0.5	5
165	Metabolic shifts during fruit development in pungent and non-pungent peppers. Food Chemistry, 2022, 375, 131850.	8.2	5
166	Spatio-temporal characterization of the fruit metabolism in contrasting accessions of Macauba (Acrocomia aculeata). Plant Physiology and Biochemistry, 2022, 171, 14-25.	5.8	5
167	Reserve mobilization and the role of primary metabolites during the germination and initial seedling growth of rubber tree genotypes. Acta Physiologiae Plantarum, 2022, 44, .	2.1	5
168	The hidden half comes into the spotlight: Peeking inside the black box of root developmental phases. Plant Communications, 2022, 3, 100246.	7.7	4
169	Cell death and changes in primary metabolism: the onset of defence in Eucalyptus in the war against Leptocybe invasa. Pest Management Science, 2022, , .	3.4	4
170	Reduced auxin signalling through the cyclophilin gene DIAGEOTROPICA impacts tomato fruit development and metabolism during ripening. Journal of Experimental Botany, 2022, 73, 4113-4128.	4.8	4
171	Characterization of Zanthoxylum rhoifolium (Sapindales: Rutaceae) Essential Oil Nanospheres and Insecticidal Effects to Bemisia tabaci (Sternorrhyncha: Aleyrodidae). Plants, 2022, 11, 1135.	3.5	4
172	Systems Biology of Gibberellin Induced Plant Cell Growth. Frontiers in Plant Science, 2012, 3, 173.	3.6	3
173	Tomato growth analysis across three cropping systems. Horticultura Brasileira, 2017, 35, 358-363.	0.5	3
174	Identification of metabolite traits from the current metabolomic approaches. Theoretical and Experimental Plant Physiology, 2019, 31, 1-19.	2.4	3
175	High Photosynthetic Rates in a Solanum pennellii Chromosome 2 QTL Is Explained by Biochemical and Photochemical Changes. Frontiers in Plant Science, 2020, 11, 794.	3.6	3
176	The role of the electronâ€transfer flavoprotein: ubiquinone oxidoreductase following carbohydrate starvation in Arabidopsis cell cultures. Plant Cell Reports, 2022, 41, 431-446.	5.6	3
177	Exploiting Natural Variation to Discover Candidate Genes Involved in Photosynthesis-Related Traits. Methods in Molecular Biology, 2017, 1653, 125-135.	0.9	2
178	Commonalities and differences in plants deficient in autophagy and alternative pathways of respiration on response to extended darkness. Plant Signaling and Behavior, 2017, 12, e1377877.	2.4	2
179	Physiological Responses to Hypoxia and Manganese in Eucalyptus Clones with Differential Tolerance to Vale do Rio Doce Shoot Dieback. Revista Brasileira De Ciencia Do Solo, 2018, 42, .	1.3	2
180	Low soil pH modulates ethylene biosynthesis and germination response of Stylosanthes humilis seeds. Plant Signaling and Behavior, 2018, 13, e1460186.	2.4	2

#	Article	IF	Citations
181	Physiological responses to light intensity and photoperiod of the halotolerant cyanobacterium Desmonostoc salinum CCM-UFV059. Bioresource Technology Reports, 2020, 11, 100443.	2.7	2
182	Deciphering ploidal levels of Lippia alba by using proteomics. Plant Physiology and Biochemistry, 2021, 167, 385-389.	5.8	2
183	Sugarcane cell suspension reveals major metabolic changes under different nitrogen starvation regimes. Bragantia, 0, 80, .	1.3	2
184	Mitochondrial and peroxisomal <scp>NAD</scp> ⁺ uptake are important for improved photosynthesis and seed yield under elevated <scp> CO ₂ </scp> concentrations. Plant Journal, 0, , .	5.7	2
185	Maximum CO2 assimilation in young Eucalyptus plantations is higher than in Brazilian savanna trees during dry field seasons. Trees - Structure and Function, 2019, 33, 543-556.	1.9	1
186	Carbon and nitrogen metabolism in cyanobacteria: Basic traits, regulation and biotechnological application. , 2020, , 245-254.		1
187	Seasonal changes in carbon and nitrogen metabolism of Brachiaria decumbens in a longâ€term silvopastoral system. Grass and Forage Science, 0, , .	2.9	1
188	The physiological role of mitochondrial ADNT1 carrier during senescence in Arabidopsis. Plant Stress, 2021, 2, 100019.	5.5	1
189	The Multifaceted Connections Between Photosynthesis and Respiratory Metabolism. , 2020, , 55-107.		1
190	Response of Stylosanthes humilis seeds to 2,4-dichlorophenoxyacetic acid. Seed Science and Technology, 2017, 45, 14-26.	1.4	0
191	Metabolic stability of freshwater Nitzschia palea strains under silicon stress associated with triacylglycerol accumulation. Algal Research, 2021, 60, 102554.	4.6	0
192	Elevated carbon assimilation and metabolic reprogramming in tomato high pigment mutants support the increased production of pigments. Plant Cell Reports, 0, , .	5.6	0