

Wagner L Araújo

List of Publications by Year in descending order

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Version: 2024-02-01

192
papers

11,135
citations

31976

53
h-index

36028

97
g-index

280
all docs

280
docs citations

280
times ranked

12463
citing authors

#	ARTICLE	IF	CITATIONS
1	The hidden half comes into the spotlight: Peeking inside the black box of root developmental phases. <i>Plant Communications</i> , 2022, 3, 100246.	7.7	4
2	The <i>Arabidopsis</i> electron transfer flavoprotein: ubiquinone oxidoreductase is required during normal seed development and germination. <i>Plant Journal</i> , 2022, 109, 196-214.	5.7	6
3	Heterosis and reciprocal effects for agronomic and fruit traits in <i>Capsicum</i> pepper hybrids. <i>Scientia Horticulturae</i> , 2022, 295, 110821.	3.6	6
4	Metabolic shifts during fruit development in pungent and non-pungent peppers. <i>Food Chemistry</i> , 2022, 375, 131850.	8.2	5
5	The role of the electron transfer flavoprotein: ubiquinone oxidoreductase following carbohydrate starvation in <i>Arabidopsis</i> cell cultures. <i>Plant Cell Reports</i> , 2022, 41, 431-446.	5.6	3
6	Cell death and changes in primary metabolism: the onset of defence in <i>Eucalyptus</i> in the war against <i>Leptocybe invasa</i> . <i>Pest Management Science</i> , 2022, , .	3.4	4
7	Spatio-temporal characterization of the fruit metabolism in contrasting accessions of <i>Macauba</i> (<i>Acrocomia aculeata</i>). <i>Plant Physiology and Biochemistry</i> , 2022, 171, 14-25.	5.8	5
8	Metabolic and DNA checkpoints for the enhancement of Al tolerance. <i>Journal of Hazardous Materials</i> , 2022, 430, 128366.	12.4	7
9	Reduced auxin signalling through the cyclophilin gene <i>DIAGEOTROPICA</i> impacts tomato fruit development and metabolism during ripening. <i>Journal of Experimental Botany</i> , 2022, 73, 4113-4128.	4.8	4
10	A long and stressful day: Photoperiod shapes aluminium tolerance in plants. <i>Journal of Hazardous Materials</i> , 2022, 432, 128704.	12.4	7
11	Characterization of <i>Zanthoxylum rhoifolium</i> (Sapindales: Rutaceae) Essential Oil Nanospheres and Insecticidal Effects to <i>Bemisia tabaci</i> (Sternorrhyncha: Aleyrodidae). <i>Plants</i> , 2022, 11, 1135.	3.5	4
12	The significance of WRKY45 transcription factor in metabolic adjustments during dark-induced leaf senescence. <i>Plant, Cell and Environment</i> , 2022, 45, 2682-2695.	5.7	9
13	Reserve mobilization and the role of primary metabolites during the germination and initial seedling growth of rubber tree genotypes. <i>Acta Physiologiae Plantarum</i> , 2022, 44, .	2.1	5
14	Physiological and metabolic bases of increased growth in the tomato ethylene-insensitive mutant Never ripe: extending ethylene signaling functions. <i>Plant Cell Reports</i> , 2021, 40, 1377-1393.	5.6	12
15	Differential development times of galls induced by <i>Leptocybe invasa</i> (Hymenoptera: Eulophidae) reveal differences in susceptibility between two <i>Eucalyptus</i> clones. <i>Pest Management Science</i> , 2021, 77, 1042-1051.	3.4	10
16	Autophagy is required for lipid homeostasis during dark-induced senescence. <i>Plant Physiology</i> , 2021, 185, 1542-1558.	4.8	22
17	Developmental metabolomics to decipher and improve fleshy fruit quality. <i>Advances in Botanical Research</i> , 2021, 98, 3-34.	1.1	6
18	Thioredoxin-mediated regulation of (photo)respiration and central metabolism. <i>Journal of Experimental Botany</i> , 2021, 72, 5987-6002.	4.8	22

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19	Selenium uptake and grain nutritional quality are affected by nitrogen fertilization in rice (<i>Oryza</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 18	5.6	18
20	<i>Prunus</i> Hexokinase 3 genes alter primary C-metabolism and promote drought and salt stress tolerance in <i>Arabidopsis</i> transgenic plants. <i>Scientific Reports</i> , 2021, 11, 7098.	3.3	18
21	Downregulation of the E2 Subunit of 2-Oxoglutarate Dehydrogenase Modulates Plant Growth by Impacting Carbon Nitrogen Metabolism in <i>Arabidopsis thaliana</i> . <i>Plant and Cell Physiology</i> , 2021, 62, 798-814.	3.1	8
22	Guard cell regulation: pulling the strings behind the scenes. <i>Trends in Plant Science</i> , 2021, 26, 1093-1095.	8.8	7
23	Exogenous ethylene reduces growth via alterations in central metabolism and cell wall composition in tomato (<i>Solanum lycopersicum</i>). <i>Journal of Plant Physiology</i> , 2021, 263, 153460.	3.5	7
24	Deciphering ploidal levels of <i>Lippia alba</i> by using proteomics. <i>Plant Physiology and Biochemistry</i> , 2021, 167, 385-389.	5.8	2
25	Biochemical and physiological aspects of restinga herbaceous plants tolerance to iron ore tailing plume along the coastal region of Espírito Santo-Brazil. <i>Environmental and Experimental Botany</i> , 2021, 191, 104618.	4.2	6
26	The physiological role of mitochondrial ADNT1 carrier during senescence in <i>Arabidopsis</i> . <i>Plant Stress</i> , 2021, 2, 100019.	5.5	1
27	Specific leaf area is modulated by nitrogen via changes in primary metabolism and parenchymal thickness in pepper. <i>Planta</i> , 2021, 253, 16.	3.2	7
28	Guidelines for the use and interpretation of assays for monitoring autophagy (4th) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 382 Td (edition 1,430	9.1	1,430
29	Physiological, metabolic, and stomatal adjustments in response to salt stress in <i>Jatropha curcas</i> . <i>Plant Physiology and Biochemistry</i> , 2021, 168, 116-127.	5.8	19
30	Metabolic stability of freshwater <i>Nitzschia palea</i> strains under silicon stress associated with triacylglycerol accumulation. <i>Algal Research</i> , 2021, 60, 102554.	4.6	0
31	Starch accumulation does not lead to feedback photosynthetic downregulation in girdled coffee branches under varying source-to-sink ratios. <i>Trees - Structure and Function</i> , 2020, 34, 1-16.	1.9	14
32	Thioredoxin <i>h2</i> contributes to the redox regulation of mitochondrial photorespiratory metabolism. <i>Plant, Cell and Environment</i> , 2020, 43, 188-208.	5.7	34
33	Control of water use efficiency by florigen. <i>Plant, Cell and Environment</i> , 2020, 43, 76-86.	5.7	6
34	The novel strain <i>Desmonostoc salinum</i> CCM UFV 059 shows higher salt and desiccation resistance compared to the model strain <i>Nostoc</i> sp. PCC 7120. <i>Journal of Phycology</i> , 2020, 56, 496-506.	2.3	10
35	Changes in intracellular NAD status affect stomatal development in an abscisic acid dependent manner. <i>Plant Journal</i> , 2020, 104, 1149-1168.	5.7	21
36	How do wheat plants cope with <i>Pyricularia oryzae</i> infection? A physiological and metabolic approach. <i>Planta</i> , 2020, 252, 24.	3.2	6

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37	Current status of the multinational Arabidopsis community. <i>Plant Direct</i> , 2020, 4, e00248.	1.9	13
38	Metabolic and physiological adjustments of maize leaves in response to aluminum stress. <i>Theoretical and Experimental Plant Physiology</i> , 2020, 32, 133-145.	2.4	9
39	Physiological responses to light intensity and photoperiod of the halotolerant cyanobacterium <i>Desmostoc salinum</i> CCM-UFV059. <i>Bioresource Technology Reports</i> , 2020, 11, 100443.	2.7	2
40	High Photosynthetic Rates in a <i>Solanum pennellii</i> Chromosome 2 QTL Is Explained by Biochemical and Photochemical Changes. <i>Frontiers in Plant Science</i> , 2020, 11, 794.	3.6	3
41	Multifaceted Roles of Plant Autophagy in Lipid and Energy Metabolism. <i>Trends in Plant Science</i> , 2020, 25, 1141-1153.	8.8	35
42	The photosynthesis game is in the "inter-play": Mechanisms underlying CO ₂ diffusion in leaves. <i>Environmental and Experimental Botany</i> , 2020, 178, 104174.	4.2	28
43	Alternative fertilizer-based growth media support high lipid contents without growth impairment in <i>Scenedesmus obliquus</i> BR003. <i>Bioprocess and Biosystems Engineering</i> , 2020, 43, 1123-1131.	3.4	8
44	Engineering Improved Photosynthesis in the Era of Synthetic Biology. <i>Plant Communications</i> , 2020, 1, 100032.	7.7	77
45	Downregulation of a Mitochondrial NAD ⁺ Transporter (NDT2) Alters Seed Production and Germination in <i>Arabidopsis</i> . <i>Plant and Cell Physiology</i> , 2020, 61, 897-908.	3.1	19
46	Eating Away at ROS to Regulate Stomatal Opening. <i>Trends in Plant Science</i> , 2020, 25, 220-223.	8.8	36
47	In natura and nanoencapsulated essential oils from <i>Xylopiia aromatica</i> reduce oviposition of <i>Bemisia tabaci</i> in <i>Phaseolus vulgaris</i> . <i>Journal of Pest Science</i> , 2020, 93, 807-821.	3.7	21
48	Carbon and nitrogen metabolism in cyanobacteria: Basic traits, regulation and biotechnological application. , 2020, , 245-254.		1
49	Boron: More Than an Essential Element for Land Plants?. <i>Frontiers in Plant Science</i> , 2020, 11, 610307.	3.6	35
50	Biochemical and functional characterization of a mitochondrial citrate carrier in <i>Arabidopsis thaliana</i> . <i>Biochemical Journal</i> , 2020, 477, 1759-1777.	3.7	13
51	Mesophyll conductance: the leaf corridors for photosynthesis. <i>Biochemical Society Transactions</i> , 2020, 48, 429-439.	3.4	37
52	The Multifaceted Connections Between Photosynthesis and Respiratory Metabolism. , 2020, , 55-107.		1
53	Modulation of auxin signalling through <i>DIAGETROPICA</i> and <i>ENTIRE</i> differentially affects tomato plant growth via changes in photosynthetic and mitochondrial metabolism. <i>Plant, Cell and Environment</i> , 2019, 42, 448-465.	5.7	17
54	The mitochondrial NAD ⁺ transporter (NDT1) plays important roles in cellular NAD ⁺ homeostasis in <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 2019, 100, 487-504.	5.7	34

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55	The Arabidopsis E1 subunit of the 2-oxoglutarate dehydrogenase complex modulates plant growth and seed production. <i>Plant Molecular Biology</i> , 2019, 101, 183-202.	3.9	16
56	Arsenic-contaminated sediment from mining areas as source of morphological and phylogenetic distinct cyanobacterial lineages. <i>Algal Research</i> , 2019, 42, 101589.	4.6	7
57	Physiological parameters and plasticity as key factors to understand pioneer and late successional species in the Atlantic Rainforest. <i>Acta Physiologiae Plantarum</i> , 2019, 41, 1.	2.1	12
58	Source Strength Modulates Fruit Set by Starch Turnover and Export of Both Sucrose and Amino Acids in Pepper. <i>Plant and Cell Physiology</i> , 2019, 60, 2319-2330.	3.1	5
59	Physiological and thylakoid ultrastructural changes in cyanobacteria in response to toxic manganese concentrations. <i>Ecotoxicology</i> , 2019, 28, 1009-1021.	2.4	8
60	Evolution and regulation of nitrogen flux through compartmentalized metabolic networks in a marine diatom. <i>Nature Communications</i> , 2019, 10, 4552.	12.8	116
61	Metabolomics for understanding stomatal movements. <i>Theoretical and Experimental Plant Physiology</i> , 2019, 31, 91-102.	2.4	18
62	Elevated CO ₂ induces age-dependent restoration of growth and metabolism in gibberellin-deficient plants. <i>Planta</i> , 2019, 250, 1147-1161.	3.2	8
63	Stomata opening and productiveness response of fresh market tomato under different irrigation intervals. <i>Scientia Horticulturae</i> , 2019, 255, 86-95.	3.6	12
64	Selenium downregulates auxin and ethylene biosynthesis in rice seedlings to modify primary metabolism and root architecture. <i>Planta</i> , 2019, 250, 333-345.	3.2	43
65	On the role of the plant mitochondrial thioredoxin system during abiotic stress. <i>Plant Signaling and Behavior</i> , 2019, 14, 1592536.	2.4	17
66	Increased urea availability promotes adjustments in C/N metabolism and lipid content without impacting growth in <i>Chlamydomonas reinhardtii</i> . <i>Metabolomics</i> , 2019, 15, 31.	3.0	17
67	Nitrogen differentially modulates photosynthesis, carbon allocation and yield related traits in two contrasting <i>Capsicum chinense</i> cultivars. <i>Plant Science</i> , 2019, 283, 224-237.	3.6	26
68	Identification of metabolite traits from the current metabolomic approaches. <i>Theoretical and Experimental Plant Physiology</i> , 2019, 31, 1-19.	2.4	3
69	Downregulation of mitochondrial alternative oxidase affects chloroplast function, redox status and stress response in a marine diatom. <i>New Phytologist</i> , 2019, 221, 1303-1316.	7.3	51
70	Growth and metabolic adjustments in response to gibberellin deficiency in drought stressed tomato plants. <i>Environmental and Experimental Botany</i> , 2019, 159, 95-107.	4.2	41
71	Maximum CO ₂ assimilation in young <i>Eucalyptus</i> plantations is higher than in Brazilian savanna trees during dry field seasons. <i>Trees - Structure and Function</i> , 2019, 33, 543-556.	1.9	1
72	Insights into ABA-mediated regulation of guard cell primary metabolism revealed by systems biology approaches. <i>Progress in Biophysics and Molecular Biology</i> , 2019, 146, 37-49.	2.9	26

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73	The role of amino acid metabolism during abiotic stress release. <i>Plant, Cell and Environment</i> , 2019, 42, 1630-1644.	5.7	278
74	Capsaicinoids: Pungency beyond Capsicum. <i>Trends in Plant Science</i> , 2019, 24, 109-120.	8.8	108
75	Differential root and shoot responses in the metabolism of tomato plants exhibiting reduced levels of gibberellin. <i>Environmental and Experimental Botany</i> , 2019, 157, 331-343.	4.2	16
76	The Mitochondrial Thioredoxin System Contributes to the Metabolic Responses Under Drought Episodes in <i>Arabidopsis</i> . <i>Plant and Cell Physiology</i> , 2019, 60, 213-229.	3.1	26
77	Bundle sheath extensions affect leaf structural and physiological plasticity in response to irradiance. <i>Plant, Cell and Environment</i> , 2019, 42, 1575-1589.	5.7	14
78	SELF-PRUNING Acts Synergistically with DIAGEOTROPICA to Guide Auxin Responses and Proper Growth Form. <i>Plant Physiology</i> , 2018, 176, 2904-2916.	4.8	34
79	Characterization of maize leaf pyruvate orthophosphate dikinase using high throughput sequencing. <i>Journal of Integrative Plant Biology</i> , 2018, 60, 670-690.	8.5	12
80	Ethylene coordinates seed germination behavior in response to low soil pH in <i>Stylosanthes humilis</i> . <i>Plant and Soil</i> , 2018, 425, 87-100.	3.7	11
81	To Bring Flowers or Do a Runner: Gibberellins Make the Decision. <i>Molecular Plant</i> , 2018, 11, 4-6.	8.3	15
82	Sucrose breakdown within guard cells provides substrates for glycolysis and glutamine biosynthesis during light-induced stomatal opening. <i>Plant Journal</i> , 2018, 94, 583-594.	5.7	61
83	Nitrogen metabolism in cyanobacteria: metabolic and molecular control, growth consequences and biotechnological applications. <i>Critical Reviews in Microbiology</i> , 2018, 44, 541-560.	6.1	78
84	The genetic architecture of photosynthesis and plant growth-related traits in tomato. <i>Plant, Cell and Environment</i> , 2018, 41, 327-341.	5.7	59
85	Modifications in Organic Acid Profiles During Fruit Development and Ripening: Correlation or Causation?. <i>Frontiers in Plant Science</i> , 2018, 9, 1689.	3.6	152
86	Physiological Responses to Hypoxia and Manganese in Eucalyptus Clones with Differential Tolerance to Vale do Rio Doce Shoot Dieback. <i>Revista Brasileira De Ciencia Do Solo</i> , 2018, 42, .	1.3	2
87	Data-Mining Bioinformatics: Connecting Adenylate Transport and Metabolic Responses to Stress. <i>Trends in Plant Science</i> , 2018, 23, 961-974.	8.8	15
88	Alternative Carbon Sources for Isoprene Emission. <i>Trends in Plant Science</i> , 2018, 23, 1081-1101.	8.8	30
89	An L,L-diaminopimelate aminotransferase mutation leads to metabolic shifts and growth inhibition in <i>Arabidopsis</i> . <i>Journal of Experimental Botany</i> , 2018, 69, 5489-5506.	4.8	5
90	Discriminating the Function(s) of Guard Cell ALMT Channels. <i>Trends in Plant Science</i> , 2018, 23, 649-651.	8.8	12

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91	Low soil pH modulates ethylene biosynthesis and germination response of <i>Stylosanthes humilis</i> seeds. <i>Plant Signaling and Behavior</i> , 2018, 13, e1460186.	2.4	2
92	Characterization of Nanospheres Containing <i>Zanthoxylum riedelianum</i> Fruit Essential Oil and Their Insecticidal and Deterrent Activities against <i>Bemisia tabaci</i> (Hemiptera: Aleyrodidae). <i>Molecules</i> , 2018, 23, 2052.	3.8	21
93	How Does European Mistletoe Survive Without Complex I?. <i>Trends in Plant Science</i> , 2018, 23, 847-850.	8.8	6
94	Extending the ecological distribution of <i>Desmonostoc</i> genus: proposal of <i>Desmonostoc salinum</i> sp. nov., a novel Cyanobacteria from a saline "alkaline lake. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2018, 68, 2770-2782.	1.7	19
95	Metabolism within the specialized guard cells of plants. <i>New Phytologist</i> , 2017, 216, 1018-1033.	7.3	77
96	Exploiting Natural Variation to Discover Candidate Genes Involved in Photosynthesis-Related Traits. <i>Methods in Molecular Biology</i> , 2017, 1653, 125-135.	0.9	2
97	Essential oil repellent action of plants of the genus <i>Zanthoxylum</i> against <i>Bemisia tabaci</i> biotype B (Homoptera: Aleyrodidae). <i>Scientia Horticulturae</i> , 2017, 226, 327-332.	3.6	13
98	Impaired Malate and Fumarate Accumulation Due to the Mutation of the Tonoplast Dicarboxylate Transporter Has Little Effects on Stomatal Behavior. <i>Plant Physiology</i> , 2017, 175, 1068-1081.	4.8	51
99	Commonalities and differences in plants deficient in autophagy and alternative pathways of respiration on response to extended darkness. <i>Plant Signaling and Behavior</i> , 2017, 12, e1377877.	2.4	2
100	Measurement of Tricarboxylic Acid Cycle Enzyme Activities in Plants. <i>Methods in Molecular Biology</i> , 2017, 1670, 167-182.	0.9	6
101	Photosynthetic and metabolic acclimation to repeated drought events play key roles in drought tolerance in coffee. <i>Journal of Experimental Botany</i> , 2017, 68, 4309-4322.	4.8	94
102	Differential impact of amino acids on OXPHOS system activity following carbohydrate starvation in <i>Arabidopsis</i> cell suspensions. <i>Physiologia Plantarum</i> , 2017, 161, 451-467.	5.2	16
103	Exploring the metabolic and physiological diversity of native microalgal strains (Chlorophyta) isolated from tropical freshwater reservoirs. <i>Algal Research</i> , 2017, 28, 139-150.	4.6	33
104	A Novel Mechanism, Linked to Cell Density, Largely Controls Cell Division in <i>Synechocystis</i> . <i>Plant Physiology</i> , 2017, 174, 2166-2182.	4.8	15
105	Autophagy Deficiency Compromises Alternative Pathways of Respiration following Energy Deprivation in <i>Arabidopsis thaliana</i> . <i>Plant Physiology</i> , 2017, 175, 62-76.	4.8	98
106	Tomato growth analysis across three cropping systems. <i>Horticultura Brasileira</i> , 2017, 35, 358-363.	0.5	3
107	Cyanobacterial nitrogenases: phylogenetic diversity, regulation and functional predictions. <i>Genetics and Molecular Biology</i> , 2017, 40, 261-275.	1.3	55
108	Engineering photosynthesis: progress and perspectives. <i>F1000Research</i> , 2017, 6, 1891.	1.6	37

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109	Response of <i>Stylosanthes humilis</i> seeds to 2,4-dichlorophenoxyacetic acid. <i>Seed Science and Technology</i> , 2017, 45, 14-26.	1.4	0
110	The influence of alternative pathways of respiration that utilize branched-chain amino acids following water shortage in <i>Arabidopsis</i> . <i>Plant, Cell and Environment</i> , 2016, 39, 1304-1319.	5.7	139
111	Growth inhibition by selenium is associated with changes in primary metabolism and nutrient levels in <i>Arabidopsis thaliana</i> . <i>Plant, Cell and Environment</i> , 2016, 39, 2235-2246.	5.7	41
112	Can stable isotope mass spectrometry replace radiolabelled approaches in metabolic studies?. <i>Plant Science</i> , 2016, 249, 59-69.	3.6	32
113	Silicon improves rice grain yield and photosynthesis specifically when supplied during the reproductive growth stage. <i>Journal of Plant Physiology</i> , 2016, 206, 125-132.	3.5	62
114	Comprehensive metabolic reprogramming in freshwater <i>Nitzschia palea</i> strains undergoing nitrogen starvation is likely associated with its ecological origin. <i>Algal Research</i> , 2016, 18, 116-126.	4.6	13
115	Natural genetic variation for morphological and molecular determinants of plant growth and yield. <i>Journal of Experimental Botany</i> , 2016, 67, 2989-3001.	4.8	55
116	The role of silicon in metabolic acclimation of rice plants challenged with arsenic. <i>Environmental and Experimental Botany</i> , 2016, 123, 22-36.	4.2	73
117	Enhanced Photosynthesis and Growth in <i>Arabidopsis thaliana</i> Knockout Mutants Are Due to Altered Organic Acid Accumulation and an Increase in Both Stomatal and Mesophyll Conductance. <i>Plant Physiology</i> , 2016, 170, 86-101.	4.8	77
118	Impaired Cyclic Electron Flow around Photosystem I Disturbs High-Light Respiratory Metabolism. <i>Plant Physiology</i> , 2016, 172, 2176-2189.	4.8	20
119	Inhibition of mitochondrial 2-oxoglutarate dehydrogenase impairs viability of cancer cells in a cell-specific metabolism-dependent manner. <i>Oncotarget</i> , 2016, 7, 26400-26421.	1.8	35
120	Tobacco guard cells fix CO ₂ by both Rubisco and PEPcase while sucrose acts as a substrate during light-induced stomatal opening. <i>Plant, Cell and Environment</i> , 2015, 38, 2353-2371.	5.7	95
121	Exploring natural variation of photosynthetic, primary metabolism and growth parameters in a large panel of <i>Capsicum chinense</i> accessions. <i>Planta</i> , 2015, 242, 677-691.	3.2	19
122	Thioredoxin, a master regulator of the tricarboxylic acid cycle in plant mitochondria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E1392-400.	7.1	179
123	Utilizing systems biology to unravel stomatal function and the hierarchies underpinning its control. <i>Plant, Cell and Environment</i> , 2015, 38, 1457-1470.	5.7	31
124	Zinc deficiency affects physiological and anatomical characteristics in maize leaves. <i>Journal of Plant Physiology</i> , 2015, 183, 138-143.	3.5	79
125	Insecticidal effect of nanoencapsulated essential oils from <i>Zanthoxylum rhoifolium</i> (Rutaceae) in <i>Bemisia tabaci</i> populations. <i>Industrial Crops and Products</i> , 2015, 70, 301-308.	5.2	89
126	Amino Acid Catabolism in Plants. <i>Molecular Plant</i> , 2015, 8, 1563-1579.	8.3	898

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127	Analysis of knockout mutants reveals non-redundant functions of poly(ADP-ribose)polymerase isoforms in Arabidopsis. <i>Plant Molecular Biology</i> , 2015, 89, 319-338.	3.9	21
128	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. <i>PLoS ONE</i> , 2014, 9, e94862.	2.5	39
129	Analysis of metabolic alterations in <i>Arabidopsis</i> following changes in the carbon dioxide and oxygen partial pressures. <i>Journal of Integrative Plant Biology</i> , 2014, 56, 941-959.	8.5	20
130	Reversal of senescence by N resupply to N-starved <i>Arabidopsis thaliana</i> : transcriptomic and metabolomic consequences. <i>Journal of Experimental Botany</i> , 2014, 65, 3975-3992.	4.8	94
131	Evolution and Functional Implications of the Tricarboxylic Acid Cycle as Revealed by Phylogenetic Analysis. <i>Genome Biology and Evolution</i> , 2014, 6, 2830-2848.	2.5	82
132	2-Oxoglutarate: linking TCA cycle function with amino acid, glucosinolate, flavonoid, alkaloid, and gibberellin biosynthesis. <i>Frontiers in Plant Science</i> , 2014, 5, 552.	3.6	91
133	On the role of plant mitochondrial metabolism and its impact on photosynthesis in both optimal and sub-optimal growth conditions. <i>Photosynthesis Research</i> , 2014, 119, 141-156.	2.9	68
134	Suppression of the External Mitochondrial NADPH Dehydrogenase, NDB1, in <i>Arabidopsis thaliana</i> Affects Central Metabolism and Vegetative Growth. <i>Molecular Plant</i> , 2014, 7, 356-368.	8.3	43
135	Suppression of NDA-Type Alternative Mitochondrial NAD(P)H Dehydrogenases in <i>Arabidopsis thaliana</i> Modifies Growth and Metabolism, but not High Light Stimulation of Mitochondrial Electron Transport. <i>Plant and Cell Physiology</i> , 2014, 55, 881-896.	3.1	40
136	Analysis of Short-Term Metabolic Alterations in <i>Arabidopsis</i> Following Changes in the Prevailing Environmental Conditions. <i>Molecular Plant</i> , 2014, 7, 893-911.	8.3	17
137	The complex role of mitochondrial metabolism in plant aluminum resistance. <i>Trends in Plant Science</i> , 2014, 19, 399-407.	8.8	66
138	Silicon nutrition alleviates the negative impacts of arsenic on the photosynthetic apparatus of rice leaves: an analysis of the key limitations of photosynthesis. <i>Physiologia Plantarum</i> , 2014, 152, 355-366.	5.2	94
139	Analysis of Kinetic Labeling of Amino Acids and Organic Acids by GC-MS. <i>Methods in Molecular Biology</i> , 2014, 1090, 107-119.	0.9	9
140	Comparative evaluation of different preservation methods for cyanobacterial strains. <i>Journal of Applied Phycology</i> , 2013, 25, 919-929.	2.8	14
141	Regulation of the mitochondrial tricarboxylic acid cycle. <i>Current Opinion in Plant Biology</i> , 2013, 16, 335-343.	7.1	141
142	Virus-induced gene silencing of pea CHLI and CHLD affects tetrapyrrole biosynthesis, chloroplast development and the primary metabolic network. <i>Plant Physiology and Biochemistry</i> , 2013, 65, 17-26.	5.8	46
143	On the role of the mitochondrial 2-oxoglutarate dehydrogenase complex in amino acid metabolism. <i>Amino Acids</i> , 2013, 44, 683-700.	2.7	55
144	New insights into photorespiration obtained from metabolomics. <i>Plant Biology</i> , 2013, 15, 656-666.	3.8	37

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145	Orchestration of Thiamin Biosynthesis and Central Metabolism by Combined Action of the Thiamin Pyrophosphate Riboswitch and the Circadian Clock in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2013, 25, 288-307.	6.6	98
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