Adriano Nunes Nesi

List of Publications by Year
in descending order

206	15,809	13068	19136
papers	citations	68 h-index	118 g-index

209	209	209	15091
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	NAD meets ABA: connecting cellular metabolism and hormone signaling. Trends in Plant Science, 2022, 27, 16-28.	4.3	12
2	The Arabidopsis electronâ€transfer flavoprotein:ubiquinone oxidoreductase is required during normal seed development and germination. Plant Journal, 2022, 109, 196-214.	2.8	6
3	Impact of nanoparticles and their ionic counterparts derived from heavy metals on the physiology of food crops. Plant Physiology and Biochemistry, 2022, 172, 14-23.	2.8	16
4	Heterosis and reciprocal effects for agronomic and fruit traits in Capsicum pepper hybrids. Scientia Horticulturae, 2022, 295, 110821.	1.7	6
5	Metabolic shifts during fruit development in pungent and non-pungent peppers. Food Chemistry, 2022, 375, 131850.	4.2	5
6	The role of the electronâ€transfer flavoprotein: ubiquinone oxidoreductase following carbohydrate starvation in Arabidopsis cell cultures. Plant Cell Reports, 2022, 41, 431-446.	2.8	3
7	Spatio-temporal characterization of the fruit metabolism in contrasting accessions of Macauba (Acrocomia aculeata). Plant Physiology and Biochemistry, 2022, 171, 14-25.	2.8	5
8	Differential physiological and metabolic responses in young and fully expanded leaves of Aristotelia chilensis plants subjected to drought stress. Environmental and Experimental Botany, 2022, 196, 104814.	2.0	4
9	Metabolic and DNA checkpoints for the enhancement of Al tolerance. Journal of Hazardous Materials, 2022, 430, 128366.	6.5	7
10	Reduced auxin signalling through the cyclophilin gene DIAGEOTROPICA impacts tomato fruit development and metabolism during ripening. Journal of Experimental Botany, 2022, 73, 4113-4128.	2.4	4
11	A long and stressful day: Photoperiod shapes aluminium tolerance in plants. Journal of Hazardous Materials, 2022, 432, 128704.	6.5	7
12	Reserve mobilization and the role of primary metabolites during the germination and initial seedling growth of rubber tree genotypes. Acta Physiologiae Plantarum, 2022, 44, .	1.0	5
13	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.	2.8	12
14	Validated MAGIC and GWAS population mapping reveals the link between vitamin E content and natural variation in chorismate metabolism in tomato. Plant Journal, 2021, 105, 907-923.	2.8	12
15	Differential mechanisms between traditionally established and new highbush blueberry (Vaccinium) Tj ETQq1 1 0.784314 rgBT /Overlo and Biochemistry, 2021, 158, 454-465.	2.8	7
16	Metabolomic analyses of highbush blueberry (Vaccinium corymbosum L.) cultivars revealed mechanisms of resistance to aluminum toxicity. Environmental and Experimental Botany, 2021, 183, 104338.	2.0	10
17	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.	1.5	8
18	Titanium Dioxide Nanoparticles Increase Tissue Ti Concentration and Activate Antioxidants in Solanum lycopersicum L.. Journal of Soil Science and Plant Nutrition, 2021, 21, 1881-1889.	1.7	5

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19	Metabolite Profiling in Arabidopsisthaliana with Moderately Impaired Photorespiration Reveals Novel Metabolic Links and Compensatory Mechanisms of Photorespiration. Metabolites, 2021, 11, 391.	1.3	17
20	Physiological and molecular insights involved in silicon uptake and transport in ryegrass. Plant Physiology and Biochemistry, 2021, 163, 308-316.	2.8	4
21	Guard cell regulation: pulling the strings behind the scenes. Trends in Plant Science, 2021, 26, 1093-1095.	4.3	7
22	Exogenous ethylene reduces growth via alterations in central metabolism and cell wall composition in tomato (Solanum lycopersicum). Journal of Plant Physiology, 2021, 263, 153460.	1.6	7
23	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.	2.0	6
24	The physiological role of mitochondrial ADNT1 carrier during senescence in Arabidopsis. Plant Stress, 2021, 2, 100019.	2.7	1
25	Swine wastewater treatment in high rate algal ponds: Effects of Cu and Zn on nutrient removal, productivity and biomass composition. Journal of Environmental Management, 2021, 299, 113668.	3.8	12
26	Specific leaf area is modulated by nitrogen via changes in primary metabolism and parenchymal thickness in pepper. Planta, 2021, 253, 16.	1.6	7
27	Metabolic stability of freshwater Nitzschia palea strains under silicon stress associated with triacylglycerol accumulation. Algal Research, 2021, 60, 102554.	2.4	0
28	The effect of silicon supply on photosynthesis and carbohydrate metabolism in two wheat (Triticum) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 Biochemistry, 2021, 169, 236-248.	2.8	10
29	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.	0.9	14
30	Thioredoxin h2 contributes to the redox regulation of mitochondrial photorespiratory metabolism. Plant, Cell and Environment, 2020, 43, 188-208.	2.8	34
31	Changes in intracellular NAD status affect stomatal development in an abscisic acidâ€dependent manner. Plant Journal, 2020, 104, 1149-1168.	2.8	21
32	Metabolic Roles of Plant Mitochondrial Carriers. Biomolecules, 2020, 10, 1013.	1.8	11
33	Current status of the multinational Arabidopsis community. Plant Direct, 2020, 4, e00248.	0.8	13
34	In Vivo NADH/NAD⁺ Biosensing Reveals the Dynamics of Cytosolic Redox Metabolism in Plants. Plant Cell, 2020, 32, 3324-3345.	3.1	40
35	Insights into oleaginous phenotype of the yeast Papiliotrema laurentii. Fungal Genetics and Biology, 2020, 144, 103456.	0.9	5
36	Characterization of In Vivo Function(s) of Members of the Plant Mitochondrial Carrier Family. Biomolecules, 2020, 10, 1226.	1.8	11

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37	Titanium dioxide nanoparticles provoke transient increase in photosynthetic performance and differential response in antioxidant system in Raphanus sativus L.. Scientia Horticulturae, 2020, 269, 109418.	1.7	28
38	Understanding photosynthetic and metabolic adjustments in iron hyperaccumulators grass. Theoretical and Experimental Plant Physiology, 2020, 32, 147-162.	1.1	10
39	Physiological responses to light intensity and photoperiod of the halotolerant cyanobacterium Desmonostoc salinum CCM-UFV059. Bioresource Technology Reports, 2020, 11, 100443.	1.5	2
40	Evaluation of morphological and metabolic responses to glyphosate exposure in two neotropical plant species. Ecological Indicators, 2020, 113, 106246.	2.6	21
41	High Photosynthetic Rates in a Solanum pennellii Chromosome 2 QTL Is Explained by Biochemical and Photochemical Changes. Frontiers in Plant Science, 2020, 11, 794.	1.7	3
42	The photosynthesis game is in the "inter-play": Mechanisms underlying CO2 diffusion in leaves. Environmental and Experimental Botany, 2020, 178, 104174.	2.0	28
43	Alternative fertilizer-based growth media support high lipid contents without growth impairment in Scenedesmus obliquus BR003. Bioprocess and Biosystems Engineering, 2020, 43, 1123-1131.	1.7	8
44	Engineering Improved Photosynthesis in the Era of Synthetic Biology. Plant Communications, 2020, 1, 100032.	3.6	77
45	Downregulation of a Mitochondrial NAD+ Transporter (NDT2) Alters Seed Production and Germination in Arabidopsis. Plant and Cell Physiology, 2020, 61, 897-908.	1.5	19
46	How do vascular plants perform photosynthesis in extreme environments? An integrative ecophysiological and biochemical story. Plant Journal, 2020, 101, 979-1000.	2.8	42
47	Boron: More Than an Essential Element for Land Plants?. Frontiers in Plant Science, 2020, 11, 610307.	1.7	35
48	Biochemical and functional characterization of a mitochondrial citrate carrier in Arabidopsis thaliana. Biochemical Journal, 2020, 477, 1759-1777.	1.7	13
49	Mesophyll conductance: the leaf corridors for photosynthesis. Biochemical Society Transactions, 2020, 48, 429-439.	1.6	37
50	Metabolic responses of Vaccinium corymbosum L. cultivars to Al3+ toxicity and gypsum amendment. Environmental and Experimental Botany, 2020, 176, 104119.	2.0	3
51	The Multifaceted Connections Between Photosynthesis and Respiratory Metabolism. , 2020, , 55-107.		1
52	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.	2.8	17
53	Aluminum stress differentially affects physiological performance and metabolic compounds in cultivars of highbush blueberry. Scientific Reports, 2019, 9, 11275.	1.6	27
54	CO2 enrichment and supporting material impact the primary metabolism and 20-hydroxyecdysone levels in Brazilian ginseng grown under photoautotrophy. Plant Cell, Tissue and Organ Culture, 2019, 139, 77-89.	1.2	9

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55	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.	2.8	34
56	The Arabidopsis E1 subunit of the 2-oxoglutarate dehydrogenase complex modulates plant growth and seed production. Plant Molecular Biology, 2019, 101, 183-202.	2.0	16
57	Arsenic-contaminated sediment from mining areas as source of morphological and phylogenetic distinct cyanobacterial lineages. Algal Research, 2019, 42, 101589.	2.4	7
58	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.	1.5	5
59	Manganese toxicity amelioration by phosphorus supply in contrasting Mn resistant genotypes of ryegrass. Plant Physiology and Biochemistry, 2019, 144, 144-156.	2.8	10
60	Gypsum application ameliorates morphological and photochemical damages provoked by Al toxicity in Vaccinium corymbosum L. cultivars. Journal of Berry Research, 2019, 9, 665-685.	0.7	4
61	Evolution and regulation of nitrogen flux through compartmentalized metabolic networks in a marine diatom. Nature Communications, 2019, 10, 4552.	5.8	116
62	Transcript and metabolic adjustments triggered by drought in Ilex paraguariensis leaves. Planta, 2019, 250, 445-462.	1.6	20
63	Transcriptome analysis reveals potential roles of a barley ASR gene that confers stress tolerance in transgenic rice. Journal of Plant Physiology, 2019, 238, 29-39.	1.6	8
64	On the role of the plant mitochondrial thioredoxin system during abiotic stress. Plant Signaling and Behavior, 2019, 14, 1592536.	1.2	17
65	Increased urea availability promotes adjustments in C/N metabolism and lipid content without impacting growth in Chlamydomonas reinhardtii. Metabolomics, 2019, 15, 31.	1.4	17
66	Nitrogen differentially modulates photosynthesis, carbon allocation and yield related traits in two contrasting Capsicum chinense cultivars. Plant Science, 2019, 283, 224-237.	1.7	26
67	Identification and characterization of metabolite quantitative trait loci in tomato leaves and comparison with those reported for fruits and seeds. Metabolomics, 2019, 15, 46.	1.4	22
68	Identification of metabolite traits from the current metabolomic approaches. Theoretical and Experimental Plant Physiology, 2019, 31, 1-19.	1.1	3
69	Growth and metabolic adjustments in response to gibberellin deficiency in drought stressed tomato plants. Environmental and Experimental Botany, 2019, 159, 95-107.	2.0	41
70	The role of amino acid metabolism during abiotic stress release. Plant, Cell and Environment, 2019, 42, 1630-1644.	2.8	278
71	Capsaicinoids: Pungency beyond Capsicum. Trends in Plant Science, 2019, 24, 109-120.	4.3	108
72	Differential root and shoot responses in the metabolism of tomato plants exhibiting reduced levels of gibberellin. Environmental and Experimental Botany, 2019, 157, 331-343.	2.0	16

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73	The Mitochondrial Thioredoxin System Contributes to the Metabolic Responses Under Drought Episodes in Arabidopsis. Plant and Cell Physiology, 2019, 60, 213-229.	1.5	26
74	To Bring Flowers or Do a Runner: Gibberellins Make the Decision. Molecular Plant, 2018, 11, 4-6.	3.9	15
75	Scenedesmus sp. cultivation using commercial-grade ammonium sources. Annals of Microbiology, 2018, 68, 35-45.	1.1	22
76	Age-related mechanism and its relationship with secondary metabolism and abscisic acid in Aristotelia chilensis plants subjected to drought stress. Plant Physiology and Biochemistry, 2018, 124, 136-145.	2.8	45
77	The genetic architecture of photosynthesis and plant growthâ€related traits in tomato. Plant, Cell and Environment, 2018, 41, 327-341.	2.8	59
78	Eucalypt plants are physiologically and metabolically affected by infection with Ceratocystis fimbriata. Plant Physiology and Biochemistry, 2018, 123, 170-179.	2.8	17
79	Modifications in Organic Acid Profiles During Fruit Development and Ripening: Correlation or Causation?. Frontiers in Plant Science, 2018, 9, 1689.	1.7	152
80	NAD⁺Biosynthesis and Signaling in Plants. Critical Reviews in Plant Sciences, 2018, 37, 259-307.	2.7	71
81	Data-Mining Bioinformatics: Connecting Adenylate Transport and Metabolic Responses to Stress. Trends in Plant Science, 2018, 23, 961-974.	4.3	15
82	Metabolic diversity in tuber tissues of native ChiloÃ© potatoes and commercial cultivars of Solanum tuberosum ssp. tuberosum L.. Metabolomics, 2018, 14, 138.	1.4	7
83	An L,L-diaminopimelate aminotransferase mutation leads to metabolic shifts and growth inhibition in Arabidopsis. Journal of Experimental Botany, 2018, 69, 5489-5506.	2.4	5
84	Metallic nanoparticles influence the structure and function of the photosynthetic apparatus in plants. Plant Physiology and Biochemistry, 2018, 130, 408-417.	2.8	82
85	How Does European Mistletoe Survive Without Complex I?. Trends in Plant Science, 2018, 23, 847-850.	4.3	6
86	Unraveling Interfaces between Energy Metabolism and Cell Cycle in Plants. Trends in Plant Science, 2018, 23, 731-747.	4.3	45
87	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.	0.8	19
88	Physiological and biochemical responses to manganese toxicity in ryegrass (Lolium perenne L.) genotypes. Plant Physiology and Biochemistry, 2017, 113, 89-97.	2.8	25
89	Distinct physiological and metabolic reprogramming by highbush blueberry (<i>Vaccinium) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf Plantarum, 2017, 160, 46-64.	2.6	18
90	Exploiting Natural Variation to Discover Candidate Genes Involved in Photosynthesis-Related Traits. Methods in Molecular Biology, 2017, 1653, 125-135.	0.4	2

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91	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.	2.3	51
92	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.	1.2	2
93	Measurement of Tricarboxylic Acid Cycle Enzyme Activities in Plants. Methods in Molecular Biology, 2017, 1670, 167-182.	0.4	6
94	Different levels of UV-B resistance in Vaccinium corymbosum cultivars reveal distinct backgrounds of phenylpropanoid metabolites. Plant Physiology and Biochemistry, 2017, 118, 541-550.	2.8	28
95	Differential impact of amino acids on OXPHOS system activity following carbohydrate starvation in Arabidopsis cell suspensions. Physiologia Plantarum, 2017, 161, 451-467.	2.6	16
96	Exploring the metabolic and physiological diversity of native microalgal strains (Chlorophyta) isolated from tropical freshwater reservoirs. Algal Research, 2017, 28, 139-150.	2.4	33
97	Autophagy Deficiency Compromises Alternative Pathways of Respiration following Energy Deprivation in Arabidopsis thaliana. Plant Physiology, 2017, 175, 62-76.	2.3	98
98	Cyanobacterial nitrogenases: phylogenetic diversity, regulation and functional predictions. Genetics and Molecular Biology, 2017, 40, 261-275.	0.6	55
99	Methyl Jasmonate: An Alternative for Improving the Quality and Health Properties of Fresh Fruits. Molecules, 2016, 21, 567.	1.7	99
100	Can stable isotope mass spectrometry replace â€Žradiolabelled approaches in metabolic studies?. Plant Science, 2016, 249, 59-69.	1.7	32
101	The interplay between carbon availability and growth in different zones of the growing maize leaf. Plant Physiology, 2016, 172, pp.00994.2016.	2.3	24
102	Comprehensive metabolic reprograming in freshwater Nitzschia palea strains undergoing nitrogen starvation is likely associated with its ecological origin. Algal Research, 2016, 18, 116-126.	2.4	13
103	Arsenic hyperaccumulation induces metabolic reprogramming in Pityrogramma calomelanos to reduce oxidative stress. Physiologia Plantarum, 2016, 157, 135-146.	2.6	25
104	Natural genetic variation for morphological and molecular determinants of plant growth and yield. Journal of Experimental Botany, 2016, 67, 2989-3001.	2.4	55
105	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.	2.3	77
106	Exploring natural variation of photosynthetic, primary metabolism and growth parameters in a large panel of Capsicum chinense accessions. Planta, 2015, 242, 677-691.	1.6	19
107	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.	3.3	179
108	Amino Acid Catabolism in Plants. Molecular Plant, 2015, 8, 1563-1579.	3.9	898

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109	Arabidopsis uses two gluconeogenic gateways for organic acids to fuel seedling establishment. Nature Communications, 2015, 6, 6659.	5.8	95
110	Pore size regulates operating stomatal conductance, while stomatal densities drive the partitioning of conductance between leaf sides. Annals of Botany, 2015, 115, 555-565.	1.4	115
111	Evolution and Functional Implications of the Tricarboxylic Acid Cycle as Revealed by Phylogenetic Analysis. Genome Biology and Evolution, 2014, 6, 2830-2848.	1.1	82
112	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.	1.6	68
113	Is There a Metabolic Requirement for Photorespiratory Enzyme Activities in Heterotrophic Tissues?. Molecular Plant, 2014, 7, 248-251.	3.9	21
114	Comparative analyses of C4 and C3 photosynthesis in developing leaves of maize and rice. Nature Biotechnology, 2014, 32, 1158-1165.	9.4	228
115	Flux profiling of photosynthetic carbon metabolism in intact plants. Nature Protocols, 2014, 9, 1803-1824.	5.5	59
116	The complex role of mitochondrial metabolism in plant aluminum resistance. Trends in Plant Science, 2014, 19, 399-407.	4.3	66
117	Analysis of Kinetic Labeling of Amino Acids and Organic Acids by GC-MS. Methods in Molecular Biology, 2014, 1090, 107-119.	0.4	9
118	<scp>TIME FOR COFFEE</scp> is an essential component in the maintenance of metabolic homeostasis in <scp>A</scp>rabidopsis thaliana. Plant Journal, 2013, 76, 188-200.	2.8	79
119	Activation of <scp>R</scp>â€mediated innate immunity and disease susceptibility is affected by mutations in a cytosolic <scp>O</scp>â€acetylserine (thiol) lyase in <scp>A</scp>rabidopsis. Plant Journal, 2013, 73, 118-130.	2.8	36
120	Regulation of the mitochondrial tricarboxylic acid cycle. Current Opinion in Plant Biology, 2013, 16, 335-343.	3.5	141
121	Transcriptomic Analysis of the Role of Carboxylic Acids in Metabolite Signaling in Arabidopsis Leaves Â Â. Plant Physiology, 2013, 162, 239-253.	2.3	90
122	Pyrophosphate levels strongly influence ascorbate and starch content in tomato fruit. Frontiers in Plant Science, 2013, 4, 308.	1.7	20
123	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.	3.1	98
124	The Central Carbon and Energy Metabolism of Marine Diatoms. Metabolites, 2013, 3, 325-346.	1.3	59
125	Metabolic Fluxes in an Illuminated Arabidopsis Rosette Â. Plant Cell, 2013, 25, 694-714.	3.1	303
126	Phosphonate Analogs of 2-Oxoglutarate Perturb Metabolism and Gene Expression in Illuminated Arabidopsis Leaves. Frontiers in Plant Science, 2012, 3, 114.	1.7	30

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127	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.	1.7	8
128	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.	3.1	66
129	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.	3.1	88
130	Osmosensitive Changes of Carbohydrate Metabolism in Response to Cellulose Biosynthesis Inhibition Â Â. Plant Physiology, 2012, 159, 105-117.	2.3	60
131	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.	2.3	14
132	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.	3.5	239
133	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.	2.4	125
134	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
135	Tapping natural variation at functional level reveals allele specific molecular characteristics of potato invertase Painâ€1. Plant, Cell and Environment, 2012, 35, 2143-2154.	2.8	7
136	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
137	Identification of a novel heteroglycan-interacting protein, HIP 1.3, from Arabidopsis thaliana. Journal of Plant Physiology, 2011, 168, 1415-1425.	1.6	21
138	Regulation of respiration in plants: A role for alternative metabolic pathways. Journal of Plant Physiology, 2011, 168, 1434-1443.	1.6	189
139	Metabolic and miRNA Profiling of TMV Infected Plants Reveals Biphasic Temporal Changes. PLoS ONE, 2011, 6, e28466.	1.1	59
140	Hybrid embryos of Vicia faba develop enhanced sink strength, which is established during early development. Plant Journal, 2011, 65, 517-531.	2.8	10
141	Enhanced levels of vitamin B₆ increase aerial organ size and positively affect stress tolerance in Arabidopsis. Plant Journal, 2011, 66, 414-432.	2.8	81
142	Evolution, structure and function of mitochondrial carriers: a review with new insights. Plant Journal, 2011, 66, 161-181.	2.8	212
143	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.	2.8	160
144	Evolution and metabolic significance of the urea cycle in photosynthetic diatoms. Nature, 2011, 473, 203-207.	13.7	453

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145	Biochemical and molecular changes in response to aluminium-stress in highbush blueberry (Vaccinium) Tj ETQq1 1 0.784314 rgBT /Over	2.8	48
146	Inhibition of aconitase in citrus fruit callus results in a metabolic shift towards amino acid biosynthesis. Planta, 2011, 234, 501-513.	1.6	55
147	Integrated proteome and metabolite analysis of the deâ€etiolation process in plastids from rice (Oryza sativa L.). Proteomics, 2011, 11, 1751-1763.	1.3	21
148	Fumarate: Multiple functions of a simple metabolite. Phytochemistry, 2011, 72, 838-843.	1.4	75
149	Targeted Enhancement of Glutamate-to-Î³-Aminobutyrate Conversion in Arabidopsis Seeds Affects Carbon-Nitrogen Balance and Storage Reserves in a Development-Dependent Manner Â Â. Plant Physiology, 2011, 157, 1026-1042.	2.3	111
150	Coupling Virus-Induced Gene Silencing to Exogenous Green Fluorescence Protein Expression Provides a Highly Efficient System for Functional Genomics in Arabidopsis and across All Stages of Tomato Fruit Development Â Â. Plant Physiology, 2011, 156, 1278-1291.	2.3	44
151	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.	2.3	39
152	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
153	Control of stomatal aperture. Plant Signaling and Behavior, 2011, 6, 1305-1311.	1.2	92
154	The Hydroxypyruvate-Reducing System in Arabidopsis: Multiple Enzymes for the Same End Â. Plant Physiology, 2011, 155, 694-705.	2.3	82
155	Targeting Mitochondrial Metabolism and Machinery as a Means to Enhance Photosynthesis. Plant Physiology, 2011, 155, 101-107.	2.3	105
156	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.	3.1	227
157	Toward the Storage Metabolome: Profiling the Barley Vacuole Â Â. Plant Physiology, 2011, 157, 1469-1482.	2.3	92
158	Altering Trehalose-6-Phosphate Content in Transgenic Potato Tubers Affects Tuber Growth and Alters Responsiveness to Hormones during Sprouting Â Â. Plant Physiology, 2011, 156, 1754-1771.	2.3	138
159	The 2-oxoglutarate/malate translocator mediates amino acid and storage protein biosynthesis in pea embryos. Plant Journal, 2010, 61, 350-363.	2.8	22
160	Virus-Induced Gene Silencing of Plastidial Soluble Inorganic Pyrophosphatase Impairs Essential Leaf Anabolic Pathways and Reduces Drought Stress Tolerance inNicotiana benthamiana. Plant Physiology, 2010, 154, 55-66.	2.3	60
161	Mild reductions in cytosolic NADP-dependent isocitrate dehydrogenase activity result in lower amino acid contents and pigmentation without impacting growth. Amino Acids, 2010, 39, 1055-1066.	1.2	34
162	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.	2.8	129

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163	Abscisic acid deficiency of developing pea embryos achieved by immunomodulation attenuates developmental phase transition and storage metabolism. Plant Journal, 2010, 64, 715-730.	2.8	21
164	The Plastidial Glyceraldehyde-3-Phosphate Dehydrogenase Is Critical for Viable Pollen Development in Arabidopsis. Plant Physiology, 2010, 152, 1830-1841.	2.3	87
165	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.	2.3	346
166	Tricarboxylic Acid Cycle Activity Regulates Tomato Root Growth via Effects on Secondary Cell Wall Production Â Â. Plant Physiology, 2010, 153, 611-621.	2.3	54
167	Robin: An Intuitive Wizard Application for R-Based Expression Microarray Quality Assessment and Analysis Â Â. Plant Physiology, 2010, 153, 642-651.	2.3	96
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