Alisdair R Fernie

List of Publications by Year
in descending order

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619	60,764	588 125	1755 212
papers	citations	h-index	g-index

704	704	704	38391
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The nutritional profile and human health benefit of pigmented rice and the impact of post-harvest processes and product development on the nutritional components: A review. Critical Reviews in Food Science and Nutrition, 2023, 63, 3867-3894.	10.3	10
2	Development of a widely targeted volatilomics method for profiling volatilomes in plants. Molecular Plant, 2022, 15, 189-202.	8.3	49
3	Corrigendum to: Posttranslational Modification of the NADP-Malic Enzyme Involved in C4 Photosynthesis Modulates the Enzymatic Activity during the Day. Plant Cell, 2022, 34, 698-699.	6.6	0
4	Genome-wide association of the metabolic shifts underpinning dark-induced senescence in Arabidopsis. Plant Cell, 2022, 34, 557-578.	6.6	29
5	Rice metabolic regulatory network spanning the entire life cycle. Molecular Plant, 2022, 15, 258-275.	8.3	49
6	A Chimeric TGA Repressor Slows Down Fruit Maturation and Ripening in Tomato. Plant and Cell Physiology, 2022, 63, 120-134.	3.1	9
7	Combining novel technologies with interdisciplinary basic research to enhance horticultural crops. Plant Journal, 2022, 109, 35-46.	5.7	17
8	Unravelling the molecular networks that regulate kiwifruit flavor. New Phytologist, 2022, 233, 8-10.	7.3	1
9	Environmentally-driven metabolite and lipid variations correspond to altered bioactivities of black wolfberry fruit. Food Chemistry, 2022, 372, 131342.	8.2	14
10	The Arabidopsis electronâ€transfer flavoprotein:ubiquinone oxidoreductase is required during normal seed development and germination. Plant Journal, 2022, 109, 196-214.	5.7	6
11	Genetic variation in YIGE1 contributes to ear length and grain yield in maize. New Phytologist, 2022, 234, 513-526.	7.3	38
12	Metabolismâ€mediated mechanisms underpin the differential stomatal speediness regulation among ferns and angiosperms. Plant, Cell and Environment, 2022, 45, 296-311.	5.7	11
13	Pathways to de novo domestication of crop wild relatives. Plant Physiology, 2022, 188, 1746-1756.	4.8	27
14	Genome-wide association studies of Arabidopsis dark-induced senescence reveals signatures of autophagy in metabolic reprogramming. Autophagy, 2022, 18, 457-458.	9.1	2
15	The reliance of phytohormone biosynthesis on primary metabolite precursors. Journal of Plant Physiology, 2022, 268, 153589.	3.5	15
16	The AtMYB60 transcription factor regulates stomatal opening by modulating oxylipin synthesis in guard cells. Scientific Reports, 2022, 12, 533.	3.3	12
17	Diversity: current and prospective secondary metabolites for nutrition and medicine. Current Opinion in Biotechnology, 2022, 74, 164-170.	6.6	27
18	Metabolic shifts during fruit development in pungent and non-pungent peppers. Food Chemistry, 2022, 375, 131850.	8.2	5

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19	The metabolic changes that effect fruit quality during tomato fruit ripening. Molecular Horticulture, 2022, 2, .	5.8	15
20	The Bacillus subtilis glutamate anti-metabolon. Nature Metabolism, 2022, 4, 161-162.	11.9	3
21	Enhancing crop diversity for food security in the face of climate uncertainty. Plant Journal, 2022, 109, 402-414.	5.7	60
22	Understanding carotenoid biosynthetic pathway control points using metabolomic analysis and natural genetic variation. Methods in Enzymology, 2022, , .	1.0	0
23	A Comparative Study of the Antihypertensive and Cardioprotective Potentials of Hot and Cold Aqueous Extracts of Hibiscus sabdariffa L. in Relation to Their Metabolic Profiles. Frontiers in Pharmacology, 2022, 13, 840478.	3.5	7
24	Chloroplast translational regulation uncovers nonessential photosynthesis genes as key players in plant cold acclimation. Plant Cell, 2022, 34, 2056-2079.	6.6	25
25	Metabolomic selectionâ€“based machine learning improves fruit taste prediction. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	5
26	Potential Valorization of Edible Nuts By-Products: Exploring the Immune-Modulatory and Antioxidants Effects of Selected Nut Shells Extracts in Relation to Their Metabolic Profiles. Antioxidants, 2022, 11, 462.	5.1	27
27	Towards the Development, Maintenance and Standardized Phenotypic Characterization of Singleâ€Seedâ€Descent Genetic Resources for Chickpea. Current Protocols, 2022, 2, e371.	2.9	6
28	Past accomplishments and future challenges of the multi-omics characterization of leaf growth. Plant Physiology, 2022, 189, 473-489.	4.8	6
29	Plant metabolic gene clusters in the multi-omics era. Trends in Plant Science, 2022, 27, 981-1001.	8.8	41
30	Regulation of Plant Primary Metabolism â€“ How Results From Novel Technologies Are Extending Our Understanding From Classical Targeted Approaches. Critical Reviews in Plant Sciences, 2022, 41, 32-51.	5.7	3
31	Convergent selection of a WD40 protein that enhances grain yield in maize and rice. Science, 2022, 375, eabg7985.	12.6	110
32	Diverse roles of <scp>MYB</scp> transcription factors in regulating secondary metabolite biosynthesis, shoot development, and stress responses in tea plants (Camellia sinensis). Plant Journal, 2022, 110, 1144-1165.	5.7	42
33	Auxin boosts energy generation pathways to fuel pollen maturation in barley. Current Biology, 2022, 32, 1798-1811.e8.	3.9	16
34	Maize Field Study Reveals Covaried Microbiota and Metabolic Changes in Roots over Plant Growth. MBio, 2022, 13, e0258421.	4.1	15
35	CsMYB184 regulates caffeine biosynthesis in tea plants. Plant Biotechnology Journal, 2022, 20, 1012-1014.	8.3	18
36	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

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37	A reactive oxygen species burst causes haploid induction in maize. Molecular Plant, 2022, 15, 943-955.	8.3	39
38	Bringing more players into play: Leveraging stress in genome wide association studies. Journal of Plant Physiology, 2022, 271, 153657.	3.5	11
39	Natural variance at the interface of plant primary and specialized metabolism. Current Opinion in Plant Biology, 2022, 67, 102201.	7.1	19
40	Metabolic profiles in C3, C3â€“C4 intermediate, C4-like, and C4 species in the genus Flaveria. Journal of Experimental Botany, 2022, 73, 1581-1601.	4.8	25
41	Jujube metabolome selection determined the edible properties acquired during domestication. Plant Journal, 2022, 109, 1116-1133.	5.7	25
42	Rising rates of starch degradation during daytime and trehalose 6-phosphate optimize carbon availability. Plant Physiology, 2022, 189, 1976-2000.	4.8	18
43	A Solanum lycopersicoides reference genome facilitates insights into tomato specialized metabolism and immunity. Plant Journal, 2022, 110, 1791-1810.	5.7	16
44	Measurement of Flower Metabolite Concentrations Using Gas Chromatographyâ€“Mass Spectrometry and High-Performance Liquid Chromatographyâ€“Mass Spectrometry. Methods in Molecular Biology, 2022, 2484, 3-12.	0.9	0
45	A. thaliana Hybrids Develop Growth Abnormalities through Integration of Stress, Hormone and Growth Signaling. Plant and Cell Physiology, 2022, 63, 944-954.	3.1	1
46	Strawberry fruit FanCXE1 carboxylesterase is involved in the catabolism of volatile esters during the ripening process. Horticulture Research, 2022, 9, .	6.3	11
47	A comparative transcriptomics and eQTL approach identifiesSlWD40as a tomato fruit ripening regulator. Plant Physiology, 2022, 190, 250-266.	4.8	9
48	High-energy-level metabolism and transport occur at the transition from closed to open flowers. Plant Physiology, 2022, 190, 319-339.	4.8	2
49	Metabolomics-based profiling for quality assessment and revealing the impact of drying of Turmeric (Curcuma longa L.). Scientific Reports, 2022, 12, .	3.3	14
50	Dynamically regulating metabolic fluxes with synthetic metabolons. Trends in Biotechnology, 2022, 40, 1019-1020.	9.3	3
51	Azacytidine arrests ripening in cultivated strawberry (Fragaria Ã— ananassa) by repressing key genes and altering hormone contents. BMC Plant Biology, 2022, 22, .	3.6	7
52	The Key to the Future Lies in the Past: Insights from Grain Legume Domestication and Improvement Should Inform Future Breeding Strategies. Plant and Cell Physiology, 2022, 63, 1554-1572.	3.1	13
53	Metabolomics based inferences to unravel phenolic compound diversity in cereals and its implications for human gut health. Trends in Food Science and Technology, 2022, 127, 14-25.	15.1	26
54	Point mutations that boost aromatic amino acid production and CO ₂ assimilation in plants. Science Advances, 2022, 8, .	10.3	7

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55	13CO2 labeling kinetics in maize reveal impaired efficiency of C4 photosynthesis under low irradiance. Plant Physiology, 2022, 190, 280-304.	4.8	11
56	Natural alleles of the abscisic acid catabolism geneZmAbh4modulate water use efficiency and carbon isotope discrimination in maize. Plant Cell, 2022, 34, 3860-3872.	6.6	5
57	Crop genetic diversity uncovers metabolites, elements, and gene networks predicted to be associated with high plant biomass yields in maize. , 2022, 1, .		2
58	Stable and Temporary Enzyme Complexes and Metabolons Involved in Energy and Redox Metabolism. Antioxidants and Redox Signaling, 2021, 35, 788-807.	5.4	14
59	Crop breeding â€“ From experience-based selection to precision design. Journal of Plant Physiology, 2021, 256, 153313.	3.5	19
60	Auto-deconvolution and molecular networking of gas chromatographyâ€“mass spectrometry data. Nature Biotechnology, 2021, 39, 169-173.	17.5	78
61	Metabolons, enzymeâ€“enzyme assemblies that mediate substrate channeling, and their roles in plant metabolism. Plant Communications, 2021, 2, 100081.	7.7	78
62	SWATH-MS-Based Proteomics: Strategies and Applications in Plants. Trends in Biotechnology, 2021, 39, 433-437.	9.3	38
63	Camellia sinensis (Tea). Trends in Genetics, 2021, 37, 201-202.	6.7	10
64	Longâ€distance stress and developmental signals associated with abscisic acid signaling in environmental responses. Plant Journal, 2021, 105, 477-488.	5.7	23
65	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.	5.7	12
66	Integrating multi-omics data for crop improvement. Journal of Plant Physiology, 2021, 257, 153352.	3.5	78
67	A phased genome based on single sperm sequencing reveals crossover pattern and complex relatedness in tea plants. Plant Journal, 2021, 105, 197-208.	5.7	15
68	Decreased Levels of Thioredoxin o1 Influences Stomatal Development and Aperture but Not Photosynthesis under Non-Stress and Saline Conditions. International Journal of Molecular Sciences, 2021, 22, 1063.	4.1	8
69	Global mapping of proteinâ€“metabolite interactions in Saccharomyces cerevisiae reveals that Ser-Leu dipeptide regulates phosphoglycerate kinase activity. Communications Biology, 2021, 4, 181.	4.4	32
70	Evolutionary gain of oligosaccharide hydrolysis and sugar transport enhanced carbohydrate partitioning in sweet watermelon fruits. Plant Cell, 2021, 33, 1554-1573.	6.6	57
71	The NAC transcription factor FaRIF controls fruit ripening in strawberry. Plant Cell, 2021, 33, 1574-1593.	6.6	95
72	Thioredoxin-mediated regulation of (photo)respiration and central metabolism. Journal of Experimental Botany, 2021, 72, 5987-6002.	4.8	22

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73	Phytochromes control metabolic flux, and their action at the seedling stage determines adult plant biomass. Journal of Experimental Botany, 2021, 72, 3263-3278.	4.8	6
74	Cross-Species Metabolic Profiling of Floral Specialized Metabolism Facilitates Understanding of Evolutional Aspects of Metabolism Among Brassicaceae Species. Frontiers in Plant Science, 2021, 12, 640141.	3.6	1
75	Several geranylgeranyl diphosphate synthase isoforms supply metabolic substrates for carotenoid biosynthesis in tomato. New Phytologist, 2021, 231, 255-272.	7.3	50
76	The genetics underlying metabolic signatures in a brown rice diversity panel and their vital role in human nutrition. Plant Journal, 2021, 106, 507-525.	5.7	22
77	Meeting human dietary vitamin requirements in the staple rice via strategies of biofortification and post-harvest fortification. Trends in Food Science and Technology, 2021, 109, 65-82.	15.1	32
78	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
79	Using landrace transcription factor alleles to increase yield in modern rice under low input agriculture. Journal of Plant Physiology, 2021, 258-259, 153362.	3.5	2
80	Multiomics-based dissection of citrus flavonoid metabolism using a Citrus reticulata Ã— Poncirus trifoliata population. Horticulture Research, 2021, 8, 56.	6.3	24
81	Multi-omics analysis of early leaf development in Arabidopsis thaliana. Patterns, 2021, 2, 100235.	5.9	24
82	Using precision phenotyping to inform de novo domestication. Plant Physiology, 2021, 186, 1397-1411.	4.8	7
83	Mild reductions in guard cell sucrose synthase 2 expression leads to slower stomatal opening and decreased whole plant transpiration in Nicotiana tabacum L. Environmental and Experimental Botany, 2021, 184, 104370.	4.2	8
84	Diversity of Chemical Structures and Biosynthesis of Polyphenols in Nut-Bearing Species. Frontiers in Plant Science, 2021, 12, 642581.	3.6	16
85	Associating primary and specialized metabolism with salt induced osmotic stress tolerance in maize. New Phytologist, 2021, 230, 2091-2093.	7.3	2
86	Differential responses of three Urochloa species to low phosphorus availability. Annals of Applied Biology, 2021, 179, 216-230.	2.5	4
87	From flowers to seeds: how the metabolism of flowers frames plant reproduction. Biochemist, 2021, 43, 14-18.	0.5	0
88	Phosphoglycerate dehydrogenase genes differentially affect Arabidopsis metabolism and development. Plant Science, 2021, 306, 110863.	3.6	10
89	The phosphorylated pathway of serine biosynthesis links plant growth with nitrogen metabolism. Plant Physiology, 2021, 186, 1487-1506.	4.8	20
90	Towards the Development, Maintenance, and Standardized Phenotypic Characterization of Singleâ€Seedâ€Descent Genetic Resources for Common Bean. Current Protocols, 2021, 1, e133.	2.9	13

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91	Overexpression of thioredoxin m in chloroplasts alters carbon and nitrogen partitioning in tobacco. Journal of Experimental Botany, 2021, 72, 4949-4964.	4.8	9
92	Ultra-high-performance liquid chromatography high-resolution mass spectrometry variants for metabolomics research. Nature Methods, 2021, 18, 733-746.	19.0	143
93	CsbZIP1-CsMYB12 mediates the production of bitter-tasting flavonols in tea plants (Camellia sinensis) through a coordinated activatorâ€“repressor network. Horticulture Research, 2021, 8, 110.	6.3	49
94	Metabolite Profiling in Arabidopsisthaliana with Moderately Impaired Photorespiration Reveals Novel Metabolic Links and Compensatory Mechanisms of Photorespiration. Metabolites, 2021, 11, 391.	2.9	17
95	Domestication of Crop Metabolomes: Desired and Unintended Consequences. Trends in Plant Science, 2021, 26, 650-661.	8.8	60
96	When a Crop Goes Back to the Wild: Feralization. Trends in Plant Science, 2021, 26, 543-545.	8.8	10
97	Tyrâ€Asp inhibition of glyceraldehyde 3â€phosphate dehydrogenase affects plant redox metabolism. EMBO Journal, 2021, 40, e106800.	7.8	29
98	Plant biotechnology for sustainable agriculture and food safety. Journal of Plant Physiology, 2021, 261, 153416.	3.5	7
99	Multiomics analyses reveal the roles of the ASR1 transcription factor in tomato fruits. Journal of Experimental Botany, 2021, 72, 6490-6509.	4.8	4
100	Two mitochondrial phosphatases, PP2c63 and Sal2, are required for posttranslational regulation of the TCA cycle in Arabidopsis. Molecular Plant, 2021, 14, 1104-1118.	8.3	31
101	Mass spectrometry-based metabolomics: a guide for annotation, quantification and best reporting practices. Nature Methods, 2021, 18, 747-756.	19.0	403
102	Exploring the genic resources underlying metabolites through mGWAS and mQTL in wheat: From large-scale gene identification and pathway elucidation to crop improvement. Plant Communications, 2021, 2, 100216.	7.7	15
103	Plasticity of rosette size in response to nitrogen availability is controlled by an <scp>RCC1</scp>â€family protein. Plant, Cell and Environment, 2021, 44, 3398-3411.	5.7	11
104	The utility of metabolomics as a tool to inform maize biology. Plant Communications, 2021, 2, 100187.	7.7	17
105	Genome-wide association studies: assessing trait characteristics in model and crop plants. Cellular and Molecular Life Sciences, 2021, 78, 5743-5754.	5.4	54
106	Towards Development, Maintenance, and Standardized Phenotypic Characterization of Singleâ€Seedâ€Descent Genetic Resources for Lupins. Current Protocols, 2021, 1, e191.	2.9	9
107	From Affinity to Proximity Techniques to Investigate Protein Complexes in Plants. International Journal of Molecular Sciences, 2021, 22, 7101.	4.1	10
108	OsGF14b modulates defense signaling pathways in rice panicle blast response. Crop Journal, 2021, 9, 725-738.	5.2	16

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109	The genomes of Taxus species unveil novel candidates in the biosynthesis of taxoids. Molecular Plant, 2021, 14, 1773-1775.	8.3	3
110	Sulfur deficiency-induced genes affect seed protein accumulation and composition under sulfate deprivation. Plant Physiology, 2021, 187, 2419-2434.	4.8	20
111	Plant cell cultures as heterologous bio-factories for secondary metabolite production. Plant Communications, 2021, 2, 100235.	7.7	40
112	Establishment of a GCâ€MSâ€based ¹³Câ€positional isotopomer approach suitable for investigating metabolic fluxes in plant primary metabolism. Plant Journal, 2021, 108, 1213-1233.	5.7	18
113	Genomic basis underlying the metabolome-mediated drought adaptation of maize. Genome Biology, 2021, 22, 260.	8.8	44
114	Plant metabolism paves the way for breeding crops with high nutritional value and stable yield. Science China Life Sciences, 2021, 64, 2202-2205.	4.9	6
115	Will Casuarina glauca Stress Resilience Be Maintained in the Face of Climate Change?. Metabolites, 2021, 11, 593.	2.9	3
116	The INCREASE project: Intelligent Collections of foodâ€legume genetic resources for European agrofood systems. Plant Journal, 2021, 108, 646-660.	5.7	29
117	The integration of MS-based metabolomics and multivariate data analysis allows for improved quality assessment of Zingiber officinale Roscoe. Phytochemistry, 2021, 190, 112843.	2.9	18
118	Plants upcycle gene functions to suit their roots. Trends in Plant Science, 2021, 26, 996-998.	8.8	1
119	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.	3.5	13
120	Acclimation in plants â€“ the Green Hub consortium. Plant Journal, 2021, 106, 23-40.	5.7	44
121	Ancestral sequence reconstruction - An underused approach to understand the evolution of gene function in plants?. Computational and Structural Biotechnology Journal, 2021, 19, 1579-1594.	4.1	10
122	Pod indehiscence in common bean is associated with the fine regulation ofPvMYB26. Journal of Experimental Botany, 2021, 72, 1617-1633.	4.8	29
123	The cytosolic invertase NI6 affects vegetative growth, flowering, fruit set, and yield in tomato. Journal of Experimental Botany, 2021, 72, 2525-2543.	4.8	16
124	Multi-omics approach reveals the contribution of KLU to leaf longevity and drought tolerance. Plant Physiology, 2021, 185, 352-368.	4.8	24
125	Kingdom-wide analysis of the evolution of the plant type III polyketide synthase superfamily. Plant Physiology, 2021, 185, 857-875.	4.8	20
126	Multi-omics approaches explain the growth-promoting effect of the apocarotenoid growth regulator zaxinone in rice. Communications Biology, 2021, 4, 1222.	4.4	18

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127	High-quality reference genome sequences of two coconut cultivars provide insights into evolution of monocot chromosomes and differentiation of fiber content and plant height. Genome Biology, 2021, 22, 304.	8.8	32
128	Different Metabolic Roles for Alternative Oxidase in Leaves of Palustrine and Terrestrial Species. Frontiers in Plant Science, 2021, 12, 752795.	3.6	1
129	The interface of central metabolism with hormone signaling in plants. Current Biology, 2021, 31, R1535-R1548.	3.9	22
130	The Assembly of Super-Complexes in the Plant Chloroplast. Biomolecules, 2021, 11, 1839.	4.0	5
131	Comparative Molecular and Metabolic Profiling of Two Contrasting Wheat Cultivars under Drought Stress. International Journal of Molecular Sciences, 2021, 22, 13287.	4.1	4
132	The role of nitrite and nitric oxide under low oxygen conditions in plants. New Phytologist, 2020, 225, 1143-1151.	7.3	49
133	Multifaceted regulatory function of tomato SlTAF1 in the response to salinity stress. New Phytologist, 2020, 225, 1681-1698.	7.3	42
134	Characterizing the involvement of FaMADS9 in the regulation of strawberry fruit receptacle development. Plant Biotechnology Journal, 2020, 18, 929-943.	8.3	25
135	Cytochrome respiration pathway and sulphur metabolism sustain stress tolerance to low temperature in the Antarctic species Colobanthus quitensis. New Phytologist, 2020, 225, 754-768.	7.3	32
136	Thioredoxin h2 contributes to the redox regulation of mitochondrial photorespiratory metabolism. Plant, Cell and Environment, 2020, 43, 188-208.	5.7	34
137	Manipulation of Î²â€carotene levels in tomato fruits results in increased ABA content and extended shelf life. Plant Biotechnology Journal, 2020, 18, 1185-1199.	8.3	81
138	Construction and applications of a B vitamin genetic resource for investigation of vitaminâ€dependent metabolism in maize. Plant Journal, 2020, 101, 442-454.	5.7	9
139	Genome-wide Dissection of Co-selected UV-B Responsive Pathways in the UV-B Adaptation of Qingke. Molecular Plant, 2020, 13, 112-127.	8.3	106
140	Metabolomics should be deployed in the identification and characterization of geneâ€edited crops. Plant Journal, 2020, 102, 897-902.	5.7	30
141	The Acetate Pathway Supports Flavonoid and Lipid Biosynthesis in Arabidopsis. Plant Physiology, 2020, 182, 857-869.	4.8	35
142	Wasteful, essential, evolutionary stepping stone? The multiple personalities of the photorespiratory pathway. Plant Journal, 2020, 102, 666-677.	5.7	44
143	Assessing durum wheat ear and leaf metabolomes in the field through hyperspectral data. Plant Journal, 2020, 102, 615-630.	5.7	35
144	A genetically validated approach for detecting inorganic polyphosphates in plants. Plant Journal, 2020, 102, 507-516.	5.7	15

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145	The Past, Present, and Future of Maize Improvement: Domestication, Genomics, and Functional Genomic Routes toward Crop Enhancement. Plant Communications, 2020, 1, 100010.	7.7	68
146	Full-Length Transcript-Based Proteogenomics of Rice Improves Its Genome and Proteome Annotation. Plant Physiology, 2020, 182, 1510-1526.	4.8	53
147	Changes in intracellular NAD status affect stomatal development in an abscisic acidâ€dependent manner. Plant Journal, 2020, 104, 1149-1168.	5.7	21
148	Mobile Transposable Elements Shape Plant Genome Diversity. Trends in Plant Science, 2020, 25, 1062-1064.	8.8	9
149	Modelâ€assisted identification of metabolic engineering strategies for Jatropha curcas lipid pathways. Plant Journal, 2020, 104, 76-95.	5.7	11
150	How do wheat plants cope with Pyricularia oryzae infection? A physiological and metabolic approach. Planta, 2020, 252, 24.	3.2	6
151	Born to revive: molecular and physiological mechanisms of double tolerance in a paleotropical and resurrection plant. New Phytologist, 2020, 226, 741-759.	7.3	34
152	Plant Single-Cell Metabolomicsâ€”Challenges and Perspectives. International Journal of Molecular Sciences, 2020, 21, 8987.	4.1	42
153	Role of Raf-like kinases in SnRK2 activation and osmotic stress response in plants. Nature Communications, 2020, 11, 6184.	12.8	59
154	On the Detection and Functional Significance of the Proteinâ€“Protein Interactions of Mitochondrial Transport Proteins. Biomolecules, 2020, 10, 1107.	4.0	8
155	Dissection of the domesticationâ€shaped genetic architecture of lettuce primary metabolism. Plant Journal, 2020, 104, 613-630.	5.7	24
156	Genome assembly of wild tea tree DASZ reveals pedigree and selection history of tea varieties. Nature Communications, 2020, 11, 3719.	12.8	108
157	Metabolic Roles of Plant Mitochondrial Carriers. Biomolecules, 2020, 10, 1013.	4.0	11
158	Developmentally controlled changes during Arabidopsis leaf development indicate causes for loss of stress tolerance with age. Journal of Experimental Botany, 2020, 71, 6340-6354.	4.8	18
159	Differences in Metabolic and Physiological Responses between Local and Widespread Grapevine Cultivars under Water Deficit Stress. Agronomy, 2020, 10, 1052.	3.0	11
160	Working day and night: plastid casein kinase 2 catalyses phosphorylation of proteins with diverse functions in lightâ€and darkâ€adapted plastids. Plant Journal, 2020, 104, 546-558.	5.7	4
161	Coordinating Sulfur Pools under Sulfate Deprivation. Trends in Plant Science, 2020, 25, 1227-1239.	8.8	62
162	Tomato multiomics at aPEELing resolution. Nature Plants, 2020, 6, 1394-1395.	9.3	1

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163	Multi-gene metabolic engineering of tomato plants results in increased fruit yield up to 23%. Scientific Reports, 2020, 10, 17219.	3.3	15
164	Adenine Nucleotide and Nicotinamide Adenine Dinucleotide Measurements in Plants. Current Protocols in Plant Biology, 2020, 5, e20115.	2.8	16
165	Characterization of In Vivo Function(s) of Members of the Plant Mitochondrial Carrier Family. Biomolecules, 2020, 10, 1226.	4.0	11
166	A moonlighting role for enzymes of glycolysis in the co-localization of mitochondria and chloroplasts. Nature Communications, 2020, 11, 4509.	12.8	47
167	Decoding altitude-activated regulatory mechanisms occurring during apple peel ripening. Horticulture Research, 2020, 7, 120.	6.3	30
168	Synthetic conversion of leaf chloroplasts into carotenoid-rich plastids reveals mechanistic basis of natural chromoplast development. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 21796-21803.	7.1	77
169	Selection of a subspecies-specific diterpene gene cluster implicated in rice disease resistance. Nature Plants, 2020, 6, 1447-1454.	9.3	66
170	Co-regulation of Clustered and Neo-functionalized Genes in Plant-Specialized Metabolism. Plants, 2020, 9, 622.	3.5	17
171	An improved extraction method enables the comprehensive analysis of lipids, proteins, metabolites and phytohormones from a single sample of leaf tissue under waterâ€deficit stress. Plant Journal, 2020, 103, 1614-1632.	5.7	55
172	An Abundance and Interaction Encyclopedia of Plant Protein Function. Trends in Plant Science, 2020, 25, 627-630.	8.8	10
173	A NAC transcription factor and its interaction protein hinder abscisic acid biosynthesis by synergistically repressing NCED5 in Citrus reticulata. Journal of Experimental Botany, 2020, 71, 3613-3625.	4.8	39
174	The Kernel Size-Related Quantitative Trait Locus qKW9 Encodes a Pentatricopeptide Repeat Protein That Aaffects Photosynthesis and Grain Filling. Plant Physiology, 2020, 183, 1696-1709.	4.8	29
175	Phytochrome-Dependent Temperature Perception Modulates Isoprenoid Metabolism. Plant Physiology, 2020, 183, 869-882.	4.8	21
176	Network-based strategies in metabolomics data analysis and interpretation: from molecular networking to biological interpretation. Expert Review of Proteomics, 2020, 17, 243-255.	3.0	70
177	PlantaSyst: Teaming up for Systems Biology and Biotechnology. Trends in Plant Science, 2020, 25, 621-624.	8.8	2
178	Quantitative trait loci analysis of seedâ€specialized metabolites reveals seedâ€specific flavonols and differential regulation of glycoalkaloid content in tomato. Plant Journal, 2020, 103, 2007-2024.	5.7	32
179	The genomes uncoupled -dependent signalling pathway coordinates plastid biogenesis with the synthesis of anthocyanins. Philosophical Transactions of the Royal Society B: Biological Sciences, 2020, 375, 20190403.	4.0	24
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