Kazuki Saito

List of Publications by Year
in descending order

555	48,192	1163 111	2883 190
papers	citations	h-index	g-index

600	600	600	34984
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Integrative omics approaches revealed a crosstalk among phytohormones during tuberous root development in cassava. Plant Molecular Biology, 2022, 109, 249-269.	2.0	26
2	Genetic divergence in transcriptional regulators of defense metabolism: insight into plant domestication and improvement. Plant Molecular Biology, 2022, 109, 401-411.	2.0	7
3	Development of RIKEN Plant Metabolome MetaDatabase. Plant and Cell Physiology, 2022, 63, 433-440.	1.5	6
4	Transcriptomic, Hormonomic and Metabolomic Analyses Highlighted the Common Modules Related to Photosynthesis, Sugar Metabolism and Cell Division in Parthenocarpic Tomato Fruits during Early Fruit Set. Cells, 2022, 11, 1420.	1.8	3
5	Tandem Gene Duplication of Dioxygenases Drives the Structural Diversity of Steroidal Glycoalkaloids in the Tomato Clade. Plant and Cell Physiology, 2022, 63, 981-990.	1.5	5
6	The ability of callus tissues induced from three Allium plants to accumulate health-beneficial natural products, S-alk(en)ylcysteine sulfoxides. Journal of Natural Medicines, 2022, 76, 803-810.	1.1	3
7	Differential expression of SlKLUH controlling fruit and seed weight is associated with changes in lipid metabolism and photosynthesis-related genes. Journal of Experimental Botany, 2021, 72, 1225-1244.	2.4	22
8	Will Multiple-Answer Multiple-Choice Questions Work Effectively in the Common Test from 2020? (Course name: What does a test measure?). Juntendo Medical Journal, 2021, 67, 96-102.	0.1	0
9	Metabolite profiling of the hyphal exudates of Rhizophagus clarus and Rhizophagus irregularis under phosphorus deficiency. Mycorrhiza, 2021, 31, 403-412.	1.3	26
10	Allylic Hydroxylation Activity Is a Source of Saponin Chemodiversity in the Genus Glycyrrhiza. Plant and Cell Physiology, 2021, 62, 262-271.	1.5	4
11	Chromosome-level genome assembly of Ophiorrhiza pumila reveals the evolution of camptothecin biosynthesis. Nature Communications, 2021, 12, 405.	5.8	77
12	The biosynthetic pathway of potato solanidanes diverged from that of spirosolanes due to evolution of a dioxygenase. Nature Communications, 2021, 12, 1300.	5.8	25
13	Food Lipidomics for 155 Agricultural Plant Products. Journal of Agricultural and Food Chemistry, 2021, 69, 8981-8990.	2.4	18
14	MassBase: A large-scaled depository of mass spectrometry datasets for metabolome analysis. Plant Biotechnology, 2021, 38, 167-171.	0.5	5
15	Retrograde sulfur flow from glucosinolates to cysteine in Arabidopsis thaliana. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	60
16	Tomato E8 Encodes a C-27 Hydroxylase in Metabolic Detoxification of Î±-Tomatine during Fruit Ripening. Plant and Cell Physiology, 2021, 62, 775-783.	1.5	14
17	History and progress in genetic improvement for enhancing rice yield in sub-Saharan Africa. Field Crops Research, 2021, 267, 108159.	2.3	22
18	Thirty years of agronomy research for development in irrigated rice-based cropping systems in the West African Sahel: Achievements and perspectives. Field Crops Research, 2021, 266, 108149.	2.3	20

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19	Assessing Dynamic Changes of Taste-Related Primary Metabolism During Ripening of Durian Pulp Using Metabolomic and Transcriptomic Analyses. Frontiers in Plant Science, 2021, 12, 687799.	1.7	16
20	Tandem Mass Spectrum Similarity-Based Network Analysis Using ¹³C-Labeled and Non-labeled Metabolome Data to Identify the Biosynthetic Pathway of the Blood Pressure-Lowering Asparagus Metabolite Asparaptine A. Journal of Agricultural and Food Chemistry, 2021, 69, 8571-8577.	2.4	4
21	Mass spectrometry-based metabolomics: a guide for annotation, quantification and best reporting practices. Nature Methods, 2021, 18, 747-756.	9.0	403
22	Agronomic gain: Definition, approach, and application. Field Crops Research, 2021, 270, 108193.	2.3	25
23	Characterization of Câ€26 aminotransferase, indispensable for steroidal glycoalkaloid biosynthesis. Plant Journal, 2021, 108, 81-92.	2.8	7
24	Gene-Metabolite Network Analysis Revealed Tissue-Specific Accumulation of Therapeutic Metabolites in Mallotus japonicus. International Journal of Molecular Sciences, 2021, 22, 8835.	1.8	3
25	CRISPR/Cas9-mediated disruption of the PYRROLIDINE KETIDE SYNTHASE gene reduces the accumulation of tropane alkaloids in Atropa belladonna hairy roots. Bioscience, Biotechnology and Biochemistry, 2021, 85, 2404-2409.	0.6	12
26	A multimodal metabolomics approach using imaging mass spectrometry and liquid chromatography-tandem mass spectrometry for spatially characterizing monoterpene indole alkaloids secreted from roots. Plant Biotechnology, 2021, 38, 305-310.	0.5	7
27	Spatial metabolomics using imaging mass spectrometry to identify the localization of asparaptine A in <i>Asparagus officinalis</i>. Plant Biotechnology, 2021, 38, 311-315.	0.5	6
28	Metabolomics and complementary techniques to investigate the plant phytochemical cosmos. Natural Product Reports, 2021, 38, 1729-1759.	5.2	46
29	Seed-coat protective neolignans are produced by the dirigent protein AtDP1 and the laccase AtLAC5 in Arabidopsis. Plant Cell, 2021, 33, 129-152.	3.1	13
30	Defective cytokinin signaling reprograms lipid and flavonoid gene-to-metabolite networks to mitigate high salinity in Arabidopsis. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	34
31	Sustainable intensification for a larger global rice bowl. Nature Communications, 2021, 12, 7163.	5.8	82
32	Identification of Î±-Tomatine 23-Hydroxylase Involved in the Detoxification of a Bitter Glycoalkaloid. Plant and Cell Physiology, 2020, 61, 21-28.	1.5	29
33	Creating the data basis to adapt agricultural decision support tools to new environments, land management and climate changeâ€"A case study of the RiceAdvice App. Journal of Agronomy and Crop Science, 2020, 206, 423-432.	1.7	13
34	Species-independent analytical tools for next-generation agriculture. Nature Plants, 2020, 6, 1408-1417.	4.7	63
35	A cellulose synthase-derived enzyme catalyses 3-O-glucuronosylation in saponin biosynthesis. Nature Communications, 2020, 11, 5664.	5.8	58
36	Editorial: The Origin of Plant Chemodiversity â€“ Conceptual and Empirical Insights. Frontiers in Plant Science, 2020, 11, 890.	1.7	3

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37	Effect of exogenous GA4â€¯+â€¯7 and BAâ€¯+â€¯CPPU treatments on fruit lignin and primary metabolites in Japanese pear â€œGold Nijisseikiâ€. Scientia Horticulturae, 2020, 272, 109593.	1.7	12
38	Metabolic Control of Gametophore Shoot Formation through Arginine in the Moss Physcomitrium patens. Cell Reports, 2020, 32, 108127.	2.9	28
39	Dual-Localized Enzymatic Components Constitute the Fatty Acid Synthase Systems in Mitochondria and Plastids. Plant Physiology, 2020, 183, 517-529.	2.3	20
40	Fruit setting rewires central metabolism via gibberellin cascades. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 23970-23981.	3.3	34
41	Metabolomic analysis of night-released soybean root exudates under high- and low-K conditions. Plant and Soil, 2020, 456, 259-276.	1.8	10
42	Higher dimensional metabolomics using stable isotope labeling for identifying the missing specialized metabolism in plants. Current Opinion in Plant Biology, 2020, 55, 84-92.	3.5	18
43	Multiomics-based characterization of specialized metabolites biosynthesis in Cornus Officinalis. DNA Research, 2020, 27, .	1.5	8
44	Maize Glossy2 and Glossy2-like Genes Have Overlapping and Distinct Functions in Cuticular Lipid Deposition. Plant Physiology, 2020, 183, 840-853.	2.3	14
45	A lipidome atlas in MS-DIAL 4. Nature Biotechnology, 2020, 38, 1159-1163.	9.4	424
46	Metabolite and Phytohormone Profiling Illustrates Metabolic Reprogramming as an Escape Strategy of Deepwater Rice during Partially Submerged Stress. Metabolites, 2020, 10, 68.	1.3	17
47	Metabolomics with ¹⁵N Labeling for Characterizing Missing Monoterpene Indole Alkaloids in Plants. Analytical Chemistry, 2020, 92, 5670-5675.	3.2	19
48	Metabolite/phytohormoneâ€“gene regulatory networks in soybean organs under dehydration conditions revealed by integration analysis. Plant Journal, 2020, 103, 197-211.	2.8	10
49	A conserved strategy of chalcone isomerase-like protein to rectify promiscuous chalcone synthase specificity. Nature Communications, 2020, 11, 870.	5.8	71
50	Cytosolic GLUTAMINE SYNTHETASE1;1 Modulates Metabolism and Chloroplast Development in Roots. Plant Physiology, 2020, 182, 1894-1909.	2.3	25
51	Targeted genome editing in tetraploid potato through transient TALEN expression by <i>Agrobacterium</i> infection. Plant Biotechnology, 2020, 37, 205-211.	0.5	21
52	Top-Down Metabolomics Approaches: Nitrogen- and Sulfur-Omics by Ultrahigh-Resolution Fourier Transform Ion Cyclotron Resonance-Mass Spectrometry. , 2020, , 138-155.		0
53	Acceleration of Mechanistic Investigation of Plant Secondary Metabolism Based on Computational Chemistry. Frontiers in Plant Science, 2019, 10, 802.	1.7	16
54	Near-infrared, mid-infrared or combined diffuse reflectance spectroscopy for assessing soil fertility in rice fields in sub-Saharan Africa. Geoderma, 2019, 354, 113840.	2.3	42

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55	Metabolic diversification of nitrogenâ€containing metabolites by the expression of a heterologous lysine decarboxylase gene in Arabidopsis. Plant Journal, 2019, 100, 505-521.	2.8	11
56	Challenges and opportunities for improving N use efficiency for rice production in sub-Saharan Africa. Plant Production Science, 2019, 22, 413-427.	0.9	92
57	HIGH STEROL ESTER 1 is a key factor in plant sterol homeostasis. Nature Plants, 2019, 5, 1154-1166.	4.7	26
58	Molecular Basis of C-30 Product Regioselectivity of Legume Oxidases Involved in High-Value Triterpenoid Biosynthesis. Frontiers in Plant Science, 2019, 10, 1520.	1.7	11
59	Multidisciplinary assessment of agricultural innovation and its impact: a case study of lowland rice variety WITA 9 in CÃ´te dâ€™Ivoire. Plant Production Science, 2019, 22, 428-442.	0.9	13
60	Efficient genome engineering using Platinum TALEN in potato. Plant Biotechnology, 2019, 36, 167-173.	0.5	32
61	Lipidomic studies of membrane glycerolipids in plant leaves under heat stress. Progress in Lipid Research, 2019, 75, 100990.	5.3	87
62	Association analysis of phenotypic and metabolomic changes in Arabidopsis accessions and their F₁ hybrids affected by different photoperiod and sucrose supply. Plant Biotechnology, 2019, 36, 155-165.	0.5	3
63	Divergent metabolic adjustments in nodules are indispensable for efficient N2 fixation of soybean under phosphate stress. Plant Science, 2019, 289, 110249.	1.7	18
64	The Structural Integrity of Lignin Is Crucial for Resistance against Striga hermonthica Parasitism in Rice. Plant Physiology, 2019, 179, 1796-1809.	2.3	60
65	S-Alk(en)ylcysteine sulfoxides in the genus Allium: proposed biosynthesis, chemical conversion, and bioactivities. Journal of Experimental Botany, 2019, 70, 4123-4137.	2.4	73
66	Functional specialization of <scp>UDP</scp>â€glycosyltransferase 73P12 in licorice to produce a sweet triterpenoid saponin, glycyrrhizin. Plant Journal, 2019, 99, 1127-1143.	2.8	67
67	Status quo of chemical weed control in rice in sub-Saharan Africa. Food Security, 2019, 11, 69-92.	2.4	47
68	Identification of a 3Î²-Hydroxysteroid Dehydrogenase/ 3-Ketosteroid Reductase Involved in Î±-Tomatine Biosynthesis in Tomato. Plant and Cell Physiology, 2019, 60, 1304-1315.	1.5	33
69	A new era in plant functional genomics. Current Opinion in Systems Biology, 2019, 15, 58-67.	1.3	26
70	A cheminformatics approach to characterize metabolomes in stable-isotope-labeled organisms. Nature Methods, 2019, 16, 295-298.	9.0	194
71	New otonecine-type pyrrolizidine alkaloid from Petasites japonicus. Journal of Natural Medicines, 2019, 73, 602-607.	1.1	10
72	Keeping the shape of plant tissue for visualizing metabolite features in segmentation and correlation analysis of imaging mass spectrometry in Asparagus officinalis. Metabolomics, 2019, 15, 24.	1.4	26

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73	Producing the sulfur-containing metabolite asparaptine in <i>Asparagus</i> calluses and a suspension cell line. Plant Biotechnology, 2019, 36, 265-267.	0.5	9
74	Characterization of steroid 5Î±-reductase involved in Î±-tomatine biosynthesis in tomatoes. Plant Biotechnology, 2019, 36, 253-263.	0.5	22
75	Transcriptome Analysis of the Hierarchical Response of Histone Deacetylase Proteins That Respond in an Antagonistic Manner to Salinity Stress. Frontiers in Plant Science, 2019, 10, 1323.	1.7	13
76	Transcriptome analysis of Pueraria candollei var. mirifica for gene discovery in the biosyntheses of isoflavones and miroestrol. BMC Plant Biology, 2019, 19, 581.	1.6	15
77	Yield-limiting macronutrients for rice in sub-Saharan Africa. Geoderma, 2019, 338, 546-554.	2.3	101
78	Identification of potential genes involved in triterpenoid saponins biosynthesis in Gleditsia sinensis by transcriptome and metabolome analyses. Journal of Natural Medicines, 2019, 73, 369-380.	1.1	13
79	FARMERSâ€™ PERCEPTIONS ON MECHANICAL WEEDERS FOR RICE PRODUCTION IN SUB-SAHARAN AFRICA. Experimental Agriculture, 2019, 55, 117-131.	0.4	11
80	Perspective: functional genomics towards new biotechnology in medicinal plants. Plant Biotechnology Reports, 2018, 12, 69-75.	0.9	17
81	The Basic Helixâ€“Loopâ€“Helix Transcription Factor GubHLH3 Positively Regulates Soyasaponin Biosynthetic Genes in Glycyrrhiza uralensis. Plant and Cell Physiology, 2018, 59, 783-796.	1.5	48
82	Ancient rice cultivar extensively replaces phospholipids with nonâ€phosphorus glycolipid under phosphorus deficiency. Physiologia Plantarum, 2018, 163, 297-305.	2.6	31
83	Metabolomics analysis of 'Housui' Japanese pear flower buds during endodormancy reveals metabolic suppression by thermal fluctuation. Plant Physiology and Biochemistry, 2018, 126, 134-141.	2.8	18
84	Progress in varietal improvement for increasing upland rice productivity in the tropics. Plant Production Science, 2018, 21, 145-158.	0.9	49
85	Molecular components of Arabidopsis intact vacuoles clarified with metabolomic and proteomic analyses. Plant and Cell Physiology, 2018, 59, 1353-1362.	1.5	11
86	Feeding the world while reducing farmer poverty? Analysis of rice relative yield and labour productivity gaps in two Beninese villages. European Journal of Agronomy, 2018, 93, 95-112.	1.9	14
87	How Can West African Rice Compete in Urban Markets? A Demand Perspective for Policymakers. EuroChoices, 2018, 17, 51-57.	0.6	15
88	Transcriptomic and Metabolomic Reprogramming from Roots to Haustoria in the Parasitic Plant, Thesium chinense. Plant and Cell Physiology, 2018, 59, 729-738.	1.5	27
89	UGT79B31 is responsible for the final modification step of pollen-specific flavonoid biosynthesis in Petunia hybrida. Planta, 2018, 247, 779-790.	1.6	23
90	Variations in agronomic and grain quality traits of rice grown under irrigated lowland conditions in West Africa. Food Science and Nutrition, 2018, 6, 970-982.	1.5	10

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91	Generation of Î±-solanine-free hairy roots of potato by CRISPR/Cas9 mediated genome editing of the St16DOX gene. Plant Physiology and Biochemistry, 2018, 131, 70-77.	2.8	150
92	Phosphorus micro-dosing as an entry point to sustainable intensification of rice systems in sub-Saharan Africa. Field Crops Research, 2018, 222, 39-49.	2.3	48
93	Significance of accumulation of the alarmone (p)ppGpp in chloroplasts for controlling photosynthesis and metabolite balance during nitrogen starvation in Arabidopsis. Photosynthesis Research, 2018, 135, 299-308.	1.6	32
94	Pyrophosphate inhibits gluconeogenesis by restricting UDP-glucose formation in vivo. Scientific Reports, 2018, 8, 14696.	1.6	46
95	A Systems Analysis With â€œSimplified Source-Sink Modelâ€•Reveals Metabolic Reprogramming in a Pair of Source-to-Sink Organs During Early Fruit Development in Tomato by LED Light Treatments. Frontiers in Plant Science, 2018, 9, 1439.	1.7	9
96	The Energetic Viability of Î”1-Piperideine Dimerization in Lysine-derived Alkaloid Biosynthesis. Metabolites, 2018, 8, 48.	1.3	11
97	Computational study on a puzzle in the biosynthetic pathway of anthocyanin: Why is an enzymatic oxidation/ reduction process required for a simple tautomerization?. PLoS ONE, 2018, 13, e0198944.	1.1	8
98	Metabolic Reprogramming in Leaf Lettuce Grown Under Different Light Quality and Intensity Conditions Using Narrow-Band LEDs. Scientific Reports, 2018, 8, 7914.	1.6	77
99	Metabolite profiling of shoot extract, root extract, and root exudate of rice under nitrogen and phosphorus deficiency. Soil Science and Plant Nutrition, 2018, 64, 312-322.	0.8	32
100	De Novo Transcriptome Assembly and Characterization of Lithospermum officinale to Discover Putative Genes Involved in Specialized Metabolites Biosynthesis. Planta Medica, 2018, 84, 920-934.	0.7	25
101	Biosynthesis of riccionidins and marchantins is regulated by R2R3-MYB transcription factors in Marchantia polymorpha. Journal of Plant Research, 2018, 131, 849-864.	1.2	50
102	Plant Lipidomics Using UPLC-QTOF-MS. Methods in Molecular Biology, 2018, 1778, 157-169.	0.4	28
103	HEAT INDUCIBLE LIPASE1 Remodels Chloroplastic Monogalactosyldiacylglycerol by Liberating Î±-Linolenic Acid in Arabidopsis Leaves under Heat Stress. Plant Cell, 2018, 30, 1887-1905.	3.1	71
104	Third DWF1 paralog in Solanaceae, sterol Î”²⁴ -isomerase, branches withanolide biosynthesis from the general phytosterol pathway. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E8096-E8103.	3.3	51
105	Metabolomic Evaluation of the Quality of Leaf Lettuce Grown in Practical Plant Factory to Capture Metabolite Signature. Frontiers in Plant Science, 2018, 9, 665.	1.7	36
106	Seasonal Alterations in Organic Phosphorus Metabolism Drive the Phosphorus Economy of Annual Growth in F. sylvatica Trees on P-Impoverished Soil. Frontiers in Plant Science, 2018, 9, 723.	1.7	20
107	Effects of Alternate Wetting and Drying Irrigation Regime and Nitrogen Fertilizer on Yield and Nitrogen Use Efficiency of Irrigated Rice in the Sahel. Water (Switzerland), 2018, 10, 711.	1.2	58
108	WIND1 induces dynamic metabolomic reprogramming during regeneration in Brassica napus. Developmental Biology, 2018, 442, 40-52.	0.9	18

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109	Comparative transcriptome analyses of three medicinal Forsythia species and prediction of candidate genes involved in secondary metabolisms. Journal of Natural Medicines, 2018, 72, 867-881.	1.1	15
110	Plant and soil P determine functional attributes of subalpine Australian plants. Arctic, Antarctic, and Alpine Research, 2018, 50, .	0.4	6
111	Metabolic variation in the pulps of two durian cultivars: Unraveling the metabolites that contribute to the flavor. Food Chemistry, 2018, 268, 118-125.	4.2	40
112	Identification of Serratane Synthase Gene from the Fern Lycopodium clavatum. Organic Letters, 2017, 19, 496-499.	2.4	11
113	On-farm rice yield and its association with biophysical factors in sub-Saharan Africa. European Journal of Agronomy, 2017, 85, 1-11.	1.9	69
114	CYP716A179 functions as a triterpene C-28 oxidase in tissue-cultured stolons of Glycyrrhiza uralensis. Plant Cell Reports, 2017, 36, 437-445.	2.8	43
115	Integrated omics analysis of specialized metabolism in medicinal plants. Plant Journal, 2017, 90, 764-787.	2.8	185
116	Top-down Metabolomic Approaches for Nitrogen-Containing Metabolites. Analytical Chemistry, 2017, 89, 2698-2703.	3.2	25
117	Discovery and Characterization of the 3-Hydroxyacyl-ACP Dehydratase Component of the Plant Mitochondrial Fatty Acid Synthase System. Plant Physiology, 2017, 173, 2010-2028.	2.3	21
118	Enhancement of abiotic stress tolerance in poplar by overexpression of key Arabidopsis stress response genes, AtSRK2C and AtGolS2. Molecular Breeding, 2017, 37, 1.	1.0	14
119	Synthesis of polyunsaturated fatty acid-containing glucuronosyl-diacylglycerol through direct glycosylation. Tetrahedron Letters, 2017, 58, 2915-2918.	0.7	4
120	RiceAtlas, a spatial database of global rice calendars and production. Scientific Data, 2017, 4, 170074.	2.4	101
121	Cytochrome P450 Monooxygenase CYP716A141 is a Unique Î²-Amyrin C-16Î² Oxidase Involved in Triterpenoid Saponin Biosynthesis in Platycodon grandiflorus. Plant and Cell Physiology, 2017, 58, 874-884.	1.5	37
122	Overexpression of an Arabidopsis thaliana galactinol synthase gene improves drought tolerance in transgenic rice and increased grain yield in the field. Plant Biotechnology Journal, 2017, 15, 1465-1477.	4.1	149
123	A novel role for methyl cysteinate, a cysteine derivative, in cesium accumulation in Arabidopsis thaliana. Scientific Reports, 2017, 7, 43170.	1.6	15
124	Variability and determinants of yields in rice production systems of West Africa. Field Crops Research, 2017, 207, 1-12.	2.3	94
125	A Highly Specific Genome-Wide Association Study Integrated with Transcriptome Data Reveals the Contribution of Copy Number Variations to Specialized Metabolites in Arabidopsis thaliana Accessions. Molecular Biology and Evolution, 2017, 34, 3111-3122.	3.5	14
126	Temporal lag between gene expression and metabolite accumulation in flavonol biosynthesis of Arabidopsis roots. Phytochemistry Letters, 2017, 22, 44-48.	0.6	7

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127	A Dioxygenase Catalyzes Steroid 16Î±-Hydroxylation in Steroidal Glycoalkaloid Biosynthesis. Plant Physiology, 2017, 175, 120-133.	2.3	52
128	Why did farmers stop cultivating NERICA upland rice varieties in central Benin?. International Journal of Agricultural Sustainability, 2017, 15, 724-734.	1.3	7
129	Acetate-mediated novel survival strategy against drought in plants. Nature Plants, 2017, 3, 17097.	4.7	232
130	Draft genome assembly and annotation of Glycyrrhiza uralensis, a medicinal legume. Plant Journal, 2017, 89, 181-194.	2.8	148
131	Metabolic switching of astringent and beneficial triterpenoid saponins in soybean is achieved by a lossâ€ofâ€function mutation in cytochrome P450 72A69. Plant Journal, 2017, 89, 527-539.	2.8	51
132	Ultrahigh resolution metabolomics for S-containing metabolites. Current Opinion in Biotechnology, 2017, 43, 8-16.	3.3	31
133	De novo transcriptome assembly and characterization of nine tissues of Lonicera japonica to identify potential candidate genes involved in chlorogenic acid, luteolosides, and secoiridoid biosynthesis pathways. Journal of Natural Medicines, 2017, 71, 1-15.	1.1	60
134	ACR11 is an Activator of Plastid-Type Glutamine Synthetase GS2 in Arabidopsis thaliana. Plant and Cell Physiology, 2017, 58, 650-657.	1.5	23
135	Effects of Combined Low Glutathione with Mild Oxidative and Low Phosphorus Stress on the Metabolism of Arabidopsis thaliana. Frontiers in Plant Science, 2017, 8, 1464.	1.7	16
136	De Novo RNA Sequencing and Expression Analysis of Aconitum carmichaelii to Analyze Key Genes Involved in the Biosynthesis of Diterpene Alkaloids. Molecules, 2017, 22, 2155.	1.7	38
137	Lipidomic analysis of soybean leaves revealed tissue-dependent difference in lipid remodeling under phosphorus-limited growth conditions. Plant Biotechnology, 2017, 34, 57-63.	0.5	20
138	Biosynthesis of S-Alk(en)yl-l-Cysteine Sulfoxides in Allium: Retro Perspective. Proceedings of the International Plant Sulfur Workshop, 2017, , 49-60.	0.1	6
139	Lysine-derived Alkaloids: Overview and Update on Biosynthesis and Medicinal Applications with Emphasis on Quinolizidine Alkaloids. Mini-Reviews in Medicinal Chemistry, 2017, 17, 1002-1012.	1.1	24
140	The Time Is Right to Focus on Model Organism Metabolomes. Metabolites, 2016, 6, 8.	1.3	63
141	An MYB transcription factor regulating specialized metabolisms in <i>Ophiorrhiza pumila</i>. Plant Biotechnology, 2016, 33, 1-9.	0.5	35
142	Plant Characteristics of Highâ€Yielding Upland Rice Cultivars in West Africa. Crop Science, 2016, 56, 276-286.	0.8	7
143	RNA-seq Transcriptome Analysis of Panax japonicus, and Its Comparison with Other Panax Species to Identify Potential Genes Involved in the Saponins Biosynthesis. Frontiers in Plant Science, 2016, 7, 481.	1.7	62
144	Genotypic Variation in Grain P Loading across Diverse Rice Growing Environments and Implications for Field P Balances. Frontiers in Plant Science, 2016, 7, 1435.	1.7	37

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145	Function of AP2/ERF Transcription Factors Involved in the Regulation of Specialized Metabolism in Ophiorrhiza pumila Revealed by Transcriptomics and Metabolomics. Frontiers in Plant Science, 2016, 7, 1861.	1.7	54
146	Comparative Characterization of the Leaf Tissue of Physalis alkekengi and Physalis peruviana Using RNA-seq and Metabolite Profiling. Frontiers in Plant Science, 2016, 7, 1883.	1.7	27
147	Soil-based screening for iron toxicity tolerance in rice using pots. Plant Production Science, 2016, 19, 489-496.	0.9	33
148	High-throughput sequencing and de novo transcriptome assembly of Swertia japonica to identify genes involved in the biosynthesis of therapeutic metabolites. Plant Cell Reports, 2016, 35, 2091-2111.	2.8	38
149	Automation of chemical assignment for identifying molecular formula of S-containing metabolites by combining metabolomics and chemoinformatics with 34S labeling. Metabolomics, 2016, 12, 1.	1.4	12
150	Can sub-Saharan Africa feed itself?. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 14964-14969.	3.3	564
151	Characterization of a recently evolved flavonol-phenylacyltransferase gene provides signatures of natural light selection in Brassicaceae. Nature Communications, 2016, 7, 12399.	5.8	145
152	Integrated metabolomics and phytochemical genomics approaches for studies on rice. GigaScience, 2016, 5, 11.	3.3	51
153	Jasmonate-Responsive ERF Transcription Factors Regulate Steroidal Glycoalkaloid Biosynthesis in Tomato. Plant and Cell Physiology, 2016, 57, 961-975.	1.5	112
154	Isotopic Combinatomer Analysis Provides in Vivo Evidence of the Direct Epimerization of Monoglucosyl Diacylglycerol in Cyanobacteria. Biochemistry, 2016, 55, 5689-5701.	1.2	8
155	Molecular Evolution and Functional Characterization of a Bifunctional Decarboxylase Involved in Lycopodium Alkaloid Biosynthesis. Plant Physiology, 2016, 171, 2432-2444.	2.3	50
156	Cloning and characterization of soybean gene Fg1 encoding flavonol 3-O-glucoside/galactoside (1â†'6) glucosyltransferase. Plant Molecular Biology, 2016, 92, 445-456.	2.0	27
157	Adaptation of the symbiotic Mesorhizobium â€"chickpea relationship to phosphate deficiency relies on reprogramming of whole-plant metabolism. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E4610-9.	3.3	55
158	Metabolome Analysis of <i>Oryza sativa</i> (Rice) Using Liquid Chromatography-Mass Spectrometry for Characterizing Organ Specificity of Flavonoids with Anti-inflammatory and Anti-oxidant Activity. Chemical and Pharmaceutical Bulletin, 2016, 64, 952-956.	0.6	19
159	Hydrogen Rearrangement Rules: Computational MS/MS Fragmentation and Structure Elucidation Using MS-FINDER Software. Analytical Chemistry, 2016, 88, 7946-7958.	3.2	441
160	De Novo Deep Transcriptome Analysis of Medicinal Plants for Gene Discovery in Biosynthesis of Plant Natural Products. Methods in Enzymology, 2016, 576, 19-45.	0.4	31
161	Changes intrans-S-1-Propenyl-l-cysteine Sulfoxide and Related Sulfur-Containing Amino Acids during Onion Storage. Journal of Agricultural and Food Chemistry, 2016, 64, 9063-9071.	2.4	6
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