Kazuki Saito

List of Publications by Year in Descending Order

561 papers	36,252 citations	99 h-index	169 g-index
600 ext. papers	42,926 ext. citations	5.8 avg, IF	7.3 L-index

#	Paper	IF	Citations
561	Seed-coat protective neolignans are produced by the dirigent protein AtDP1 and the laccase AtLAC5 in Arabidopsis. *Plant Cell*, **2021**, 33, 129-152	11.6	5
560	Retrograde sulfur flow from glucosinolates to cysteine in. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	13
559	Tomato E8 Encodes a C-27 Hydroxylase in Metabolic Detoxification of □Tomatine during Fruit Ripening. *Plant and Cell Physiology*, **2021**, 62, 775-783	4.9	3
558	Genetic divergence in transcriptional regulators of defense metabolism: insight into plant domestication and improvement. *Plant Molecular Biology*, **2021**, 1	4.6	1
557	History and progress in genetic improvement for enhancing rice yield in sub-Saharan Africa. *Field Crops Research*, **2021**, 267, 108159	5.5	7
556	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	5.5	6
555	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	6.2	7
554	Tandem Mass Spectrum Similarity-Based Network Analysis Using C-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	5.7	1
553	Mass spectrometry-based metabolomics: a guide for annotation, quantification and best reporting practices. *Nature Methods*, **2021**, 18, 747-756	21.6	83
552	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	7	9
551	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	
550	Metabolite profiling of the hyphal exudates of Rhizophagus clarus and Rhizophagus irregularis under phosphorus deficiency. *Mycorrhiza*, **2021**, 31, 403-412	3.9	4
549	Allylic Hydroxylation Activity Is a Source of Saponin Chemodiversity in the Genus Glycyrrhiza. *Plant and Cell Physiology*, **2021**, 62, 262-271	4.9	1
548	Chromosome-level genome assembly of Ophiorrhiza pumila reveals the evolution of camptothecin biosynthesis. *Nature Communications*, **2021**, 12, 405	17.4	24
547	The biosynthetic pathway of potato solanidanes diverged from that of spirosolanes due to evolution of a dioxygenase. *Nature Communications*, **2021**, 12, 1300	17.4	10
546	Food Lipidomics for 155 Agricultural Plant Products. *Journal of Agricultural and Food Chemistry*, **2021**, 69, 8981-8990	5.7	11
545	MassBase: A large-scaled depository of mass spectrometry datasets for metabolome analysis. *Plant Biotechnology*, **2021**, 38, 167-171	1.3	3

544	Agronomic gain: Definition, approach, and application. *Field Crops Research*, **2021**, 270, 108193	5.5	5
543	Characterization of C-26 aminotransferase, indispensable for steroidal glycoalkaloid biosynthesis. *Plant Journal*, **2021**, 108, 81-92	6.9	0
542	Gene-Metabolite Network Analysis Revealed Tissue-Specific Accumulation of Therapeutic Metabolites in. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	3
541	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	2.1	1
540	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	1.3	1
539	Spatial metabolomics using imaging mass spectrometry to identify the localization of asparaptine A in. *Plant Biotechnology*, **2021**, 38, 311-315	1.3	0
538	Metabolomics and complementary techniques to investigate the plant phytochemical cosmos. *Natural Product Reports*, **2021**, 38, 1729-1759	15.1	7
537	Development of RIKEN Plant Metabolonome MetaDatabase.. *Plant and Cell Physiology*, **2021**,	4.9	2
536	Sustainable intensification for a larger global rice bowl. *Nature Communications*, **2021**, 12, 7163	17.4	9
535	Higher dimensional metabolomics using stable isotope labeling for identifying the missing specialized metabolism in plants. *Current Opinion in Plant Biology*, **2020**, 55, 84-92	9.9	8
534	Multiomics-based characterization of specialized metabolites biosynthesis in Cornus Officinalis. *DNA Research*, **2020**, 27,	4.5	6
533	Maize and Genes Have Overlapping and Distinct Functions in Cuticular Lipid Deposition. *Plant Physiology*, **2020**, 183, 840-853	6.6	5
532	A lipidome atlas in MS-DIAL 4. *Nature Biotechnology*, **2020**, 38, 1159-1163	44.5	141
531	Metabolite and Phytohormone Profiling Illustrates Metabolic Reprogramming as an Escape Strategy of Deepwater Rice during Partially Submerged Stress. *Metabolites*, **2020**, 10,	5.6	6
530	Metabolomics with N Labeling for Characterizing Missing Monoterpene Indole Alkaloids in Plants. *Analytical Chemistry*, **2020**, 92, 5670-5675	7.8	14
529	Metabolite/phytohormone-gene regulatory networks in soybean organs under dehydration conditions revealed by integration analysis. *Plant Journal*, **2020**, 103, 197-211	6.9	5
528	A conserved strategy of chalcone isomerase-like protein to rectify promiscuous chalcone synthase specificity. *Nature Communications*, **2020**, 11, 870	17.4	29
527	Cytosolic GLUTAMINE SYNTHETASE1;1 Modulates Metabolism and Chloroplast Development in Roots. *Plant Physiology*, **2020**, 182, 1894-1909	6.6	12

526	Targeted genome editing in tetraploid potato through transient TALEN expression by infection. *Plant Biotechnology*, **2020**, 37, 205-211	1.3	9
525	Top-Down Metabolomics Approaches: Nitrogen- and Sulfur-Omics by Ultrahigh-Resolution Fourier Transform Ion Cyclotron Resonance-Mass Spectrometry **2020**, 138-155		
524	Identification of Tomatine 23-Hydroxylase Involved in the Detoxification of a Bitter Glycoalkaloid. *Plant and Cell Physiology*, **2020**, 61, 21-28	4.9	10
523	Creating the data basis to adapt agricultural decision support tools to new environments, land management and climate change A case study of the RiceAdvice App. *Journal of Agronomy and Crop Science*, **2020**, 206, 423-432	3.9	4
522	Species-independent analytical tools for next-generation agriculture. *Nature Plants*, **2020**, 6, 1408-1417	11.5	15
521	A cellulose synthase-derived enzyme catalyses 3-O-glucuronosylation in saponin biosynthesis. *Nature Communications*, **2020**, 11, 5664	17.4	18
520	Integrative omics approaches revealed a crosstalk among phytohormones during tuberous root development in cassava. *Plant Molecular Biology*, **2020**, 1	4.6	7
519	Effect of exogenous GA4 + 7 and BA + CPPU treatments on fruit lignin and primary metabolites in Japanese pear old Nijisseiki *Scientia Horticulturae*, **2020**, 272, 109593	4.1	1
518	Metabolic Control of Gametophore Shoot Formation through Arginine in the Moss Physcomitrium patens. *Cell Reports*, **2020**, 32, 108127	10.6	4
517	Dual-Localized Enzymatic Components Constitute the Fatty Acid Synthase Systems in Mitochondria and Plastids. *Plant Physiology*, **2020**, 183, 517-529	6.6	6
516	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	11.5	11
515	Metabolomic analysis of night-released soybean root exudates under high- and low-K conditions. *Plant and Soil*, **2020**, 456, 259-276	4.2	2
514	Lipidomic studies of membrane glycerolipids in plant leaves under heat stress. *Progress in Lipid Research*, **2019**, 75, 100990	14.3	36
513	Association analysis of phenotypic and metabolomic changes in Arabidopsis accessions and their F hybrids affected by different photoperiod and sucrose supply. *Plant Biotechnology*, **2019**, 36, 155-165	1.3	1
512	Divergent metabolic adjustments in nodules are indispensable for efficient N fixation of soybean under phosphate stress. *Plant Science*, **2019**, 289, 110249	5.3	6
511	The Structural Integrity of Lignin Is Crucial for Resistance against Parasitism in Rice. *Plant Physiology*, **2019**, 179, 1796-1809	6.6	32
510	S-Alk(en)ylcysteine sulfoxides in the genus Allium: proposed biosynthesis, chemical conversion, and bioactivities. *Journal of Experimental Botany*, **2019**, 70, 4123-4137	7	25
509	Functional specialization of UDP-glycosyltransferase 73P12 in licorice to produce a sweet triterpenoid saponin, glycyrrhizin. *Plant Journal*, **2019**, 99, 1127-1143	6.9	29

508	Status quo of chemical weed control in rice in sub-Saharan Africa. *Food Security*, **2019**, 11, 69-92	6.7	29
507	Identification of a 3-Hydroxysteroid Dehydrogenase/ 3-Ketosteroid Reductase Involved in Tomatine Biosynthesis in Tomato. *Plant and Cell Physiology*, **2019**, 60, 1304-1315	4.9	16
506	A new era in plant functional genomics. *Current Opinion in Systems Biology*, **2019**, 15, 58-67	3.2	19
505	A cheminformatics approach to characterize metabolomes in stable-isotope-labeled organisms. *Nature Methods*, **2019**, 16, 295-298	21.6	99
504	New otonecine-type pyrrolizidine alkaloid from Petasites japonicus. *Journal of Natural Medicines*, **2019**, 73, 602-607	3.3	7
503	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	4.7	18
502	Acceleration of Mechanistic Investigation of Plant Secondary Metabolism Based on Computational Chemistry. *Frontiers in Plant Science*, **2019**, 10, 802	6.2	8
501	Near-infrared, mid-infrared or combined diffuse reflectance spectroscopy for assessing soil fertility in rice fields in sub-Saharan Africa. *Geoderma*, **2019**, 354, 113840	6.7	21
500	Metabolic diversification of nitrogen-containing metabolites by the expression of a heterologous lysine decarboxylase gene in Arabidopsis. *Plant Journal*, **2019**, 100, 505-521	6.9	7
499	Challenges and opportunities for improving N use efficiency for rice production in sub-Saharan Africa. *Plant Production Science*, **2019**, 22, 413-427	2.4	53
498	HIGH STEROL ESTER 1 is a key factor in plant sterol homeostasis. *Nature Plants*, **2019**, 5, 1154-1166	11.5	13
497	Molecular Basis of C-30 Product Regioselectivity of Legume Oxidases Involved in High-Value Triterpenoid Biosynthesis. *Frontiers in Plant Science*, **2019**, 10, 1520	6.2	7
496	Multidisciplinary assessment of agricultural innovation and its impact: a case study of lowland rice variety WITA 9 in Côte dIvoire. *Plant Production Science*, **2019**, 22, 428-442	2.4	9
495	Efficient genome engineering using Platinum TALEN in potato. *Plant Biotechnology*, **2019**, 36, 167-173	1.3	22
494	Producing the sulfur-containing metabolite asparaptine in calluses and a suspension cell line. *Plant Biotechnology*, **2019**, 36, 265-267	1.3	4
493	Characterization of steroid 5-reductase involved in tomatine biosynthesis in tomatoes. *Plant Biotechnology*, **2019**, 36, 253-263	1.3	9
492	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	6.2	9
491	Transcriptome analysis of Pueraria candollei var. mirifica for gene discovery in the biosyntheses of isoflavones and miroestrol. *BMC Plant Biology*, **2019**, 19, 581	5.3	7

490	Yield-limiting macronutrients for rice in sub-Saharan Africa. *Geoderma*, **2019**, 338, 546-554	6.7	56
489	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	3.3	9
488	FARMERS□PERCEPTIONS ON MECHANICAL WEEDERS FOR RICE PRODUCTION IN SUB-SAHARAN AFRICA. *Experimental Agriculture*, **2019**, 55, 117-131	1.7	6
487	Perspective: functional genomics towards new biotechnology in medicinal plants. *Plant Biotechnology Reports*, **2018**, 12, 69-75	2.5	13
486	The Basic Helix-Loop-Helix Transcription Factor GubHLH3 Positively Regulates Soyasaponin Biosynthetic Genes in Glycyrrhiza uralensis. *Plant and Cell Physiology*, **2018**, 59, 778-791	4.9	27
485	Ancient rice cultivar extensively replaces phospholipids with non-phosphorus glycolipid under phosphorus deficiency. *Physiologia Plantarum*, **2018**, 163, 297	4.6	15
484	Metabolomics analysis of 'Housui' Japanese pear flower buds during endodormancy reveals metabolic suppression by thermal fluctuation. *Plant Physiology and Biochemistry*, **2018**, 126, 134-141	5.4	12
483	Progress in varietal improvement for increasing upland rice productivity in the tropics. *Plant Production Science*, **2018**, 21, 145-158	2.4	25
482	Molecular Components of Arabidopsis Intact Vacuoles Clarified with Metabolomic and Proteomic Analyses. *Plant and Cell Physiology*, **2018**, 59, 1353-1362	4.9	3
481	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	5	11
480	How Can West African Rice Compete in Urban Markets? A Demand Perspective for Policymakers. *EuroChoices*, **2018**, 17, 51-57	2	11
479	Transcriptomic and Metabolomic Reprogramming from Roots to Haustoria in the Parasitic Plant, Thesium chinense. *Plant and Cell Physiology*, **2018**, 59, 724-733	4.9	14
478	UGT79B31 is responsible for the final modification step of pollen-specific flavonoid biosynthesis in Petunia hybrida. *Planta*, **2018**, 247, 779-790	4.7	11
477	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	3.2	6
476	Generation of □solanine-free hairy roots of potato by CRISPR/Cas9 mediated genome editing of the St16DOX gene. *Plant Physiology and Biochemistry*, **2018**, 131, 70-77	5.4	86
475	Phosphorus micro-dosing as an entry point to sustainable intensification of rice systems in sub-Saharan Africa. *Field Crops Research*, **2018**, 222, 39-49	5.5	28
474	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	3.7	11
473	Remodels Chloroplastic Monogalactosyldiacylglycerol by Liberating □Linolenic Acid in Arabidopsis Leaves under Heat Stress. *Plant Cell*, **2018**, 30, 1887-1905	11.6	40

472	Third DWF1 paralog in Solanaceae, sterol Δ-somerase, 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	11.5	26
471	Metabolomic Evaluation of the Quality of Leaf Lettuce Grown in Practical Plant Factory to Capture Metabolite Signature. *Frontiers in Plant Science*, **2018**, 9, 665	6.2	18
470	Seasonal Alterations in Organic Phosphorus Metabolism Drive the Phosphorus Economy of Annual Growth in Trees on P-Impoverished Soil. *Frontiers in Plant Science*, **2018**, 9, 723	6.2	10
469	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	3	28
468	WIND1 induces dynamic metabolomic reprogramming during regeneration in Brassica napus. *Developmental Biology*, **2018**, 442, 40-52	3.1	11
467	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	3.3	9
466	Plant and soil P determine functional attributes of subalpine Australian plants. *Arctic, Antarctic, and Alpine Research*, **2018**, 50, e1420246	1.8	4
465	Metabolic variation in the pulps of two durian cultivars: Unraveling the metabolites that contribute to the flavor. *Food Chemistry*, **2018**, 268, 118-125	8.5	20
464	Pyrophosphate inhibits gluconeogenesis by restricting UDP-glucose formation in vivo. *Scientific Reports*, **2018**, 8, 14696	4.9	14
463	A Systems Analysis With "Simplified Source-Sink Model" 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	6.2	5
462	The Energetic Viability of Δ-Piperideine Dimerization in Lysine-derived Alkaloid Biosynthesis. *Metabolites*, **2018**, 8,	5.6	7
461	Data Integration, Metabolic Networks and Systems Biology **2018**, 261-316		3
460	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	3.7	6
459	Metabolic Reprogramming in Leaf Lettuce Grown Under Different Light Quality and Intensity Conditions Using Narrow-Band LEDs. *Scientific Reports*, **2018**, 8, 7914	4.9	43
458	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	1.6	10
457	De Novo Transcriptome Assembly and Characterization of Lithospermum officinale to Discover Putative Genes Involved in Specialized Metabolites Biosynthesis. *Planta Medica*, **2018**, 84, 920-934	3.1	17
456	Biosynthesis of riccionidins and marchantins is regulated by R2R3-MYB transcription factors in Marchantia polymorpha. *Journal of Plant Research*, **2018**, 131, 849-864	2.6	22
455	Plant Lipidomics Using UPLC-QTOF-MS. *Methods in Molecular Biology*, **2018**, 1778, 157-169	1.4	7

454	Identification of Serratane Synthase Gene from the Fern Lycopodium clavatum. *Organic Letters*, **2017**, 19, 496-499	6.2	8
453	On-farm rice yield and its association with biophysical factors in sub-Saharan Africa. *European Journal of Agronomy*, **2017**, 85, 1-11	5	45
452	CYP716A179 functions as a triterpene C-28 oxidase in tissue-cultured stolons of Glycyrrhiza uralensis. *Plant Cell Reports*, **2017**, 36, 437-445	5.1	27
451	Top-down Metabolomic Approaches for Nitrogen-Containing Metabolites. *Analytical Chemistry*, **2017**, 89, 2698-2703	7.8	19
450	Discovery and Characterization of the 3-Hydroxyacyl-ACP Dehydratase Component of the Plant Mitochondrial Fatty Acid Synthase System. *Plant Physiology*, **2017**, 173, 2010-2028	6.6	12
449	Enhancement of abiotic stress tolerance in poplar by overexpression of key Arabidopsis stress response genes, AtSRK2C and AtGolS2. *Molecular Breeding*, **2017**, 37, 1	3.4	12
448	Synthesis of polyunsaturated fatty acid-containing glucuronosyl-diacylglycerol through direct glycosylation. *Tetrahedron Letters*, **2017**, 58, 2915-2918	2	4
447	RiceAtlas, a spatial database of global rice calendars and production. *Scientific Data*, **2017**, 4, 170074	8.2	61
446	Cytochrome P450 Monooxygenase CYP716A141 is a Unique β-Amyrin C-16β Oxidase Involved in Triterpenoid Saponin Biosynthesis in Platycodon grandiflorus. *Plant and Cell Physiology*, **2017**, 58, 874-884	4.9	21
445	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	11.6	74
444	A novel role for methyl cysteinate, a cysteine derivative, in cesium accumulation in Arabidopsis thaliana. *Scientific Reports*, **2017**, 7, 43170	4.9	11
443	Variability and determinants of yields in rice production systems of West Africa. *Field Crops Research*, **2017**, 207, 1-12	5.5	59
442	Sulfur availability regulates plant growth via glucose-TOR signaling. *Nature Communications*, **2017**, 8, 1174	17.4	113
441	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	8.3	5
440	Lipidomic analysis of soybean leaves revealed tissue-dependent difference in lipid remodeling under phosphorus-limited growth conditions. *Plant Biotechnology*, **2017**, 34, 57-63	1.3	9
439	Temporal lag between gene expression and metabolite accumulation in flavonol biosynthesis of Arabidopsis roots. *Phytochemistry Letters*, **2017**, 22, 44-48	1.9	4
438	A Dioxygenase Catalyzes Steroid 16β-Hydroxylation in Steroidal Glycoalkaloid Biosynthesis. *Plant Physiology*, **2017**, 175, 120-133	6.6	37
437	Why did farmers stop cultivating NERICA upland rice varieties in central Benin?. *International Journal of Agricultural Sustainability*, **2017**, 15, 724-734	2.2	6

436	Acetate-mediated novel survival strategy against drought in plants. *Nature Plants*, **2017**, 3, 17097	11.5	129
435	Draft genome assembly and annotation of Glycyrrhiza uralensis, a medicinal legume. *Plant Journal*, **2017**, 89, 181-194	6.9	94
434	Metabolic switching of astringent and beneficial triterpenoid saponins in soybean is achieved by a loss-of-function mutation in cytochrome P450 72A69. *Plant Journal*, **2017**, 89, 527-539	6.9	36
433	Ultrahigh resolution metabolomics for S-containing metabolites. *Current Opinion in Biotechnology*, **2017**, 43, 8-16	11.4	25
432	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	3.3	41
431	ACR11 is an Activator of Plastid-Type Glutamine Synthetase GS2 in Arabidopsis thaliana. *Plant and Cell Physiology*, **2017**, 58, 650-657	4.9	18
430	Effects of Combined Low Glutathione with Mild Oxidative and Low Phosphorus Stress on the Metabolism of. *Frontiers in Plant Science*, **2017**, 8, 1464	6.2	11
429	De Novo RNA Sequencing and Expression Analysis of Aconitum carmichaelii to Analyze Key Genes Involved in the Biosynthesis of Diterpene Alkaloids. *Molecules*, **2017**, 22,	4.8	24
428	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	3.2	18
427	Biosynthesis of S-Alk(en)yl-l-Cysteine Sulfoxides in Allium: Retro Perspective. *Proceedings of the International Plant Sulfur Workshop*, **2017**, 49-60		3
426	Transgenic rice seed expressing flavonoid biosynthetic genes accumulate glycosylated and/or acylated flavonoids in protein bodies. *Journal of Experimental Botany*, **2016**, 67, 95-106	7	20
425	Integration of P acquisition efficiency, P utilization efficiency and low grain P concentrations into P-efficient rice genotypes for specific target environments. *Nutrient Cycling in Agroecosystems*, **2016**, 104, 413-427	3.3	57
424	Biochar use in a legume–rice rotation system: effects on soil fertility and crop performance. *Archives of Agronomy and Soil Science*, **2016**, 62, 199-215	2	21
423	Cloning and characterization of soybean gene Fg1 encoding flavonol 3-O-glucoside/galactoside (1-6) glucosyltransferase. *Plant Molecular Biology*, **2016**, 92, 445-456	4.6	14
422	Adaptation of the symbiotic Mesorhizobium-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	11.5	49
421	Metabolome Analysis of Oryza sativa (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, 952-6	1.9	12
420	Hydrogen Rearrangement Rules: Computational MS/MS Fragmentation and Structure Elucidation Using MS-FINDER Software. *Analytical Chemistry*, **2016**, 88, 7946-58	7.8	292
419	De Novo Deep Transcriptome Analysis of Medicinal Plants for Gene Discovery in Biosynthesis of Plant Natural Products. *Methods in Enzymology*, **2016**, 576, 19-45	1.7	20

418	Changes in trans-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	5.7	4
417	Sulfur deficiency-induced repressor proteins optimize glucosinolate biosynthesis in plants. *Science Advances*, **2016**, 2, e1601087	14.3	59
416	Onocerin Biosynthesis Requires Two Highly Dedicated Triterpene Cyclases in a Fern Lycopodium clavatum. *ChemBioChem*, **2016**, 17, 288-90	3.8	14
415	Two Cytochrome P450 Monooxygenases Catalyze Early Hydroxylation Steps in the Potato Steroid Glycoalkaloid Biosynthetic Pathway. *Plant Physiology*, **2016**, 171, 2458-67	6.6	49
414	Factors affecting farmers adoption of NERICA upland rice varieties: the case of a seed producing village in central Benin. *Food Security*, **2016**, 8, 197-209	6.7	9
413	Chemical Assignment of Structural Isomers of Sulfur-Containing Metabolites in Garlic by Liquid Chromatography-Fourier Transform Ion Cyclotron Resonance-Mass Spectrometry. *Journal of Nutrition*, **2016**, 146, 397S-402S	4.1	24
412	Unbiased profiling of volatile organic compounds in the headspace of Allium plants using an in-tube extraction device. *BMC Research Notes*, **2016**, 9, 133	2.3	24
411	Conferring high-temperature tolerance to nontransgenic tomato scions using graft transmission of RNA silencing of the fatty acid desaturase gene. *Plant Biotechnology Journal*, **2016**, 14, 783-90	11.6	12
410	Strategic phosphorus (P) application to the nursery bed increases seedling growth and yield of transplanted rice at low P supply. *Field Crops Research*, **2016**, 186, 10-17	5.5	24
409	Mutations in jasmonoyl-L-isoleucine-12-hydroxylases suppress multiple JA-dependent wound responses in Arabidopsis thaliana. *Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids* , **2016**, 1861, 1396-1408	5	24
408	Expression and functional analyses of a putative phenylcoumaran benzylic ether reductase in Arabidopsis thaliana. *Plant Cell Reports*, **2016**, 35, 513-26	5.1	9
407	Deficiency of Starch Synthase IIIa and IVb Alters Starch Granule Morphology from Polyhedral to Spherical in Rice Endosperm. *Plant Physiology*, **2016**, 170, 1255-70	6.6	91
406	Omics data input for metabolic modeling. *Current Opinion in Biotechnology*, **2016**, 37, 127-134	11.4	33
405	Ky-2, a Histone Deacetylase Inhibitor, Enhances High-Salinity Stress Tolerance in Arabidopsis thaliana. *Plant and Cell Physiology*, **2016**, 57, 776-83	4.9	35
404	Informatics framework of traditional Sino-Japanese medicine (Kampo) unveiled by factor analysis. *Journal of Natural Medicines*, **2016**, 70, 107-14	3.3	5
403	The Time Is Right to Focus on Model Organism Metabolomes. *Metabolites*, **2016**, 6,	5.6	43
402	An MYB transcription factor regulating specialized metabolisms in Ophiorrhiza pumila. *Plant Biotechnology*, **2016**, 33, 1-9	1.3	20
401	Plant Characteristics of High-Yielding Upland Rice Cultivars in West Africa. *Crop Science*, **2016**, 56, 276-286	1.4	4

400	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	6.2	44
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