

Atsuko Miyagi

List of Publications by Year in descending order

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39
papers

833
citations

516215

16
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525886

27
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40
docs citations

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times ranked

1014
citing authors

#	ARTICLE	IF	CITATIONS
1	Excessive ammonium assimilation by plastidic glutamine synthetase causes ammonium toxicity in <i>Arabidopsis thaliana</i> . <i>Nature Communications</i> , 2021, 12, 4944.	5.8	87
2	Principal component and hierarchical clustering analysis of metabolites in destructive weeds; polygonaceous plants. <i>Metabolomics</i> , 2010, 6, 146-155.	1.4	61
3	Molecular Adaptation of <i>rbcL</i> in the Heterophyllous Aquatic Plant <i>Potamogeton</i> . <i>PLoS ONE</i> , 2009, 4, e4633.	1.1	55
4	Synergistic effects of light quality, carbon dioxide and nutrients on metabolite compositions of head lettuce under artificial growth conditions mimicking a plant factory. <i>Food Chemistry</i> , 2017, 218, 561-568.	4.2	52
5	High-yielding rice Takanari has superior photosynthetic response to a commercial rice Koshihikari under fluctuating light. <i>Journal of Experimental Botany</i> , 2019, 70, 5287-5297.	2.4	49
6	Ferredoxin/thioredoxin system plays an important role in the chloroplastic <i>NADP</i> status of <i>Arabidopsis</i> . <i>Plant Journal</i> , 2018, 95, 947-960.	2.8	44
7	Deletion of the Transcriptional Regulator <i>cyAbrB2</i> Deregulates Primary Carbon Metabolism in <i>Synechocystis</i> sp. PCC 6803. <i>Plant Physiology</i> , 2013, 162, 1153-1163.	2.3	41
8	Culture temperature affects gene expression and metabolic pathways in the 2-methylisoborneol-producing cyanobacterium <i>Pseudanabaena galeata</i> . <i>Journal of Plant Physiology</i> , 2014, 171, 292-300.	1.6	41
9	Comparative metabolomics of developmental alterations caused by mineral deficiency during in vitro culture of <i>Gentiana triflora</i> . <i>Metabolomics</i> , 2012, 8, 154-163.	1.4	34
10	Dehydroascorbate Reductases and Glutathione Set a Threshold for High-Light-Induced Ascorbate Accumulation. <i>Plant Physiology</i> , 2020, 183, 112-122.	2.3	32
11	Phosphorus toxicity disrupts Rubisco activation and reactive oxygen species defence systems by phytic acid accumulation in leaves. <i>Plant, Cell and Environment</i> , 2020, 43, 2033-2053.	2.8	32
12	Redox regulation of NADP-malate dehydrogenase is vital for land plants under fluctuating light environment. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	30
13	Mitochondrial AOX Supports Redox Balance of Photosynthetic Electron Transport, Primary Metabolite Balance, and Growth in <i>Arabidopsis thaliana</i> under High Light. <i>International Journal of Molecular Sciences</i> , 2019, 20, 3067.	1.8	21
14	An antagonist treatment in combination with tracer experiments revealed isocitrate pathway dominant to oxalate biosynthesis in <i>Rumex obtusifolius</i> L.. <i>Metabolomics</i> , 2013, 9, 590-598.	1.4	20
15	The Effects of Dark Incubation on Cellular Metabolism of the Wild Type Cyanobacterium <i>Synechocystis</i> sp. PCC 6803 and a Mutant Lacking the Transcriptional Regulator <i>cyAbrB2</i> . <i>Life</i> , 2014, 4, 770-787.	1.1	20
16	Targeted metabolomics in an intrusive weed, <i>Rumex obtusifolius</i> L., grown under different environmental conditions reveals alterations of organ related metabolite pathway. <i>Metabolomics</i> , 2010, 6, 497-510.	1.4	18
17	Effects of water turbulence on variations in cell ultrastructure and metabolism of amino acids in the submersed macrophyte, <i>Elodea nuttallii</i> (Planch.) H. St. John. <i>Plant Biology</i> , 2015, 17, 997-1004.	1.8	18
18	Fate of ¹³ C in metabolic pathways and effects of high CO ₂ on the alteration of metabolites in <i>Rumex obtusifolius</i> L.. <i>Metabolomics</i> , 2011, 7, 524-535.	1.4	17

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19	Metabolomic analysis of NAD kinase-deficient mutants of the cyanobacterium <i>Synechocystis</i> sp. PCC 6803. <i>Journal of Plant Physiology</i> , 2016, 205, 105-112.	1.6	16
20	Effects of Elevated Atmospheric CO ₂ on Respiratory Rates in Mature Leaves of Two Rice Cultivars Grown at a Free-Air CO ₂ Enrichment Site and Analyses of the Underlying Mechanisms. <i>Plant and Cell Physiology</i> , 2018, 59, 637-649.	1.5	16
21	CEâ€MS-based metabolomics reveals the metabolic profile of maitake mushroom (<i>Grifola</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 1 <i>Biochemistry</i> , 2017, 81, 2314-2322.	0.6	15
22	One of the <i>NAD</i> kinases, <i>slr1415</i> , is required for the glucose metabolism of <i>Synechocystis</i> sp. PCC 6803. <i>Plant Journal</i> , 2019, 98, 654-666.	2.8	14
23	Oxalate contents in leaves of two rice cultivars grown at a free-air CO ₂ enrichment (FACE) site. <i>Plant Production Science</i> , 2019, 22, 407-411.	0.9	13
24	Impact of aluminium stress on oxalate and other metabolites in <i>Rumex obtusifolius</i> . <i>Weed Research</i> , 2013, 53, 30-41.	0.8	12
25	Metabolic and biochemical responses of <i>Potamogeton anguillanus</i> Koidz. (Potamogetonaceae) to low oxygen conditions. <i>Journal of Plant Physiology</i> , 2019, 232, 171-179.	1.6	11
26	Metabolome analysis of food-chain between plants and insects. <i>Metabolomics</i> , 2013, 9, 1254-1261.	1.4	10
27	Characterization of Glucosylceramides in the <i>Polygonaceae</i> , <i>Rumex obtusifolius</i> L. Injurious Weed. <i>Bioscience, Biotechnology and Biochemistry</i> , 2011, 75, 877-881.	0.6	8
28	Plant-Unique cis/trans Isomerism of Long-Chain Base Unsaturation is Selectively Required for Aluminum Tolerance Resulting from Glucosylceramide-Dependent Plasma Membrane Fluidity. <i>Plants</i> , 2020, 9, 19.	1.6	7
29	Metabolic alterations in leaves of oxalate-rich plant <i>Rumex obtusifolius</i> L. irradiated by gamma rays. <i>Metabolomics</i> , 2015, 11, 134-142.	1.4	6
30	The NAD Kinase <i>Slr0400</i> Functions as a Growth Repressor in <i>Synechocystis</i> sp. PCC 6803. <i>Plant and Cell Physiology</i> , 2021, 62, 668-677.	1.5	6
31	Effects of inactivation of the <i>cyAbrB2</i> transcription factor together with glycogen synthesis on cellular metabolism and free fatty acid production in the cyanobacterium <i>Synechocystis</i> sp. PCC 6803. <i>Biotechnology and Bioengineering</i> , 2018, 115, 2974-2985.	1.7	5
32	Metabolome analysis of rice leaves to obtain low-oxalate strain from ion beam-mutagenised population. <i>Metabolomics</i> , 2020, 16, 94.	1.4	5
33	An <i>Arabidopsis</i> NAC domain transcriptional activator VND7 negatively regulates <i>VNI2</i> expression. <i>Plant Biotechnology</i> , 2021, 38, 415-420.	0.5	4
34	Evaluation of metabolic changes in oxalate-rich plant <i>Rumex obtusifolius</i> L. caused by ion beam irradiation. <i>Plant Physiology and Biochemistry</i> , 2018, 122, 40-45.	2.8	3
35	Intraspecific interaction of host plants leads to concentrated distribution of a specialist herbivore through metabolic alterations in the leaves. <i>Functional Ecology</i> , 2022, 36, 779-793.	1.7	3
36	Altered metabolism of chloroplastic NAD kinase-overexpressing <i>Arabidopsis</i> in response to magnesium sulfate supplementation. <i>Plant Signaling and Behavior</i> , 2021, 16, 1844509.	1.2	2

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37	Arabidopsis nitrate-induced aspartate oxidase gene expression is necessary to maintain metabolic balance under nitrogen nutrient fluctuation. <i>Communications Biology</i> , 2022, 5, 432.	2.0	2
38	Change in expression levels of NAD kinase-encoding genes in <i>Flaveria</i> species. <i>Journal of Plant Physiology</i> , 2021, 265, 153495.	1.6	1
39	VND-INTERACTING2 effectively inhibits transcriptional activities of VASCULAR-RELATED NAC-DOMAIN7 through a conserved sequence. <i>Plant Biotechnology</i> , 2022, 39, 147-153.	0.5	1