

Atsuko Miyagi

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

39
papers

497
citations

14
h-index

20
g-index

40
ext. papers

676
ext. citations

4.9
avg, IF

3.68
L-index

#	Paper	IF	Citations
39	Principal component and hierarchical clustering analysis of metabolites in destructive weeds; polygonaceous plants. <i>Metabolomics</i> , 2010 , 6, 146-155	4.7	51
38	Molecular adaptation of rbcL in the heterophyllous aquatic plant Potamogeton. <i>PLoS ONE</i> , 2009 , 4, e46337	3.7	42
37	Deletion of the transcriptional regulator cyAbrB2 deregulates primary carbon metabolism in <i>Synechocystis</i> sp. PCC 6803. <i>Plant Physiology</i> , 2013 , 162, 1153-63	6.6	35
36	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	4.7	32
35	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	8.5	32
34	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	3.6	30
33	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	7	20
32	Excessive ammonium assimilation by plastidic glutamine synthetase causes ammonium toxicity in <i>Arabidopsis thaliana</i> . <i>Nature Communications</i> , 2021 , 12, 4944	17.4	20
31	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	4.7	18
30	Ferredoxin/thioredoxin system plays an important role in the chloroplastic NADP status of <i>Arabidopsis</i> . <i>Plant Journal</i> , 2018 , 95, 947-960	6.9	17
29	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 cyAbrB2. <i>Life</i> , 2014 , 4, 770-87	3	17
28	Dehydroascorbate Reductases and Glutathione Set a Threshold for High-Light-Induced Ascorbate Accumulation. <i>Plant Physiology</i> , 2020 , 183, 112-122	6.6	16
27	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	4.7	15
26	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	4.7	15
25	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	3.7	13
24	Impact of aluminium stress on oxalate and other metabolites in <i>Rumex obtusifolius</i> . <i>Weed Research</i> , 2013 , 53, 30-41	1.9	11
23	Mitochondrial AOX Supports Redox Balance of Photosynthetic Electron Transport, Primary Metabolite Balance, and Growth in under High Light. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	10

22	CE-MS-based metabolomics reveals the metabolic profile of maitake mushroom (<i>Grifola frondosa</i>) strains with different cultivation characteristics. <i>Bioscience, Biotechnology and Biochemistry</i> , 2017 , 81, 2314-2322	2.1	9
21	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	2.4	9
20	One of the NAD kinases, sll1415, is required for the glucose metabolism of <i>Synechocystis</i> sp. PCC 6803. <i>Plant Journal</i> , 2019 , 98, 654-666	6.9	9
19	Metabolome analysis of food-chain between plants and insects. <i>Metabolomics</i> , 2013 , 9, 1254-1261	4.7	9
18	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	3.6	9
17	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	4.9	8
16	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,	11.5	8
15	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	8.4	7
14	Characterization of glucosylceramides in the Polygonaceae, <i>Rumex obtusifolius</i> L. injurious weed. <i>Bioscience, Biotechnology and Biochemistry</i> , 2011 , 75, 877-81	2.1	7
13	Metabolic alterations in leaves of oxalate-rich plant <i>Rumex obtusifolius</i> L. irradiated by gamma rays. <i>Metabolomics</i> , 2015 , 11, 134-142	4.7	6
12	Effects of inactivation of the cyAbrB2 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	4.9	5
11	Plant-Unique / Isomerism of Long-Chain Base Unsaturation is Selectively Required for Aluminum Tolerance Resulting from Glucosylceramide-Dependent Plasma Membrane Fluidity. <i>Plants</i> , 2019 , 9,	4.5	4
10	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	3.6	3
9	Metabolome analysis of rice leaves to obtain low-oxalate strain from ion beam-mutagenised population. <i>Metabolomics</i> , 2020 , 16, 94	4.7	2
8	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	5.4	2
7	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	5.6	2
6	Intraspecific interaction of host plant influences local distribution of specialist herbivores through metabolic alterations in leaves		1
5	The NAD Kinase Slr0400 Functions as a Growth Repressor in <i>Synechocystis</i> sp. PCC 6803. <i>Plant and Cell Physiology</i> , 2021 , 62, 668-677	4.9	1

4	Change in expression levels of NAD kinase-encoding genes in Flaveria species. <i>Journal of Plant Physiology</i> , 2021 , 265, 153495	3.6	1
3	Arabidopsis nitrate-induced aspartate oxidase gene expression is necessary to maintain metabolic balance under nitrogen nutrient fluctuation.. <i>Communications Biology</i> , 2022 , 5, 432	6.7	1
2	An Arabidopsis NAC domain transcriptional activator VND7 negatively regulates expression.. <i>Plant Biotechnology</i> , 2021 , 38, 415-420	1.3	0
1	Altered metabolism of chloroplastic NAD kinase-overexpressing Arabidopsis in response to magnesium sulfate supplementation. <i>Plant Signaling and Behavior</i> , 2021 , 16, 1844509	2.5	0