

# Atsuko Miyagi

## List of Publications by Year in Descending Order

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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	Intraspecific interaction of host plants leads to concentrated distribution of a specialist herbivore through metabolic alterations in the leaves. <i>Functional Ecology</i> , <b>2022</b> , 36, 779-793	5.6	2
38	Arabidopsis nitrate-induced aspartate oxidase gene expression is necessary to maintain metabolic balance under nitrogen nutrient fluctuation.. <i>Communications Biology</i> , <b>2022</b> , 5, 432	6.7	1
37	An Arabidopsis NAC domain transcriptional activator VND7 negatively regulates expression.. <i>Plant Biotechnology</i> , <b>2021</b> , 38, 415-420	1.3	0
36	Altered metabolism of chloroplastic NAD kinase-overexpressing Arabidopsis in response to magnesium sulfate supplementation. <i>Plant Signaling and Behavior</i> , <b>2021</b> , 16, 1844509	2.5	0
35	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> , <b>2021</b> , 118,	11.5	8
34	The NAD Kinase Slr0400 Functions as a Growth Repressor in Synechocystis sp. PCC 6803. <i>Plant and Cell Physiology</i> , <b>2021</b> , 62, 668-677	4.9	1
33	Excessive ammonium assimilation by plastidic glutamine synthetase causes ammonium toxicity in Arabidopsis thaliana. <i>Nature Communications</i> , <b>2021</b> , 12, 4944	17.4	20
32	Change in expression levels of NAD kinase-encoding genes in Flaveria species. <i>Journal of Plant Physiology</i> , <b>2021</b> , 265, 153495	3.6	1
31	Dehydroascorbate Reductases and Glutathione Set a Threshold for High-Light-Induced Ascorbate Accumulation. <i>Plant Physiology</i> , <b>2020</b> , 183, 112-122	6.6	16
30	Phosphorus toxicity disrupts Rubisco activation and reactive oxygen species defence systems by phytic acid accumulation in leaves. <i>Plant, Cell and Environment</i> , <b>2020</b> , 43, 2033-2053	8.4	7
29	Metabolome analysis of rice leaves to obtain low-oxalate strain from ion beam-mutagenised population. <i>Metabolomics</i> , <b>2020</b> , 16, 94	4.7	2
28	Metabolic and biochemical responses of Potamogeton anguillanus Koidz. (Potamogetonaceae) to low oxygen conditions. <i>Journal of Plant Physiology</i> , <b>2019</b> , 232, 171-179	3.6	3
27	Oxalate contents in leaves of two rice cultivars grown at a free-air CO2 enrichment (FACE) site. <i>Plant Production Science</i> , <b>2019</b> , 22, 407-411	2.4	9
26	One of the NAD kinases, sll1415, is required for the glucose metabolism of Synechocystis sp. PCC 6803. <i>Plant Journal</i> , <b>2019</b> , 98, 654-666	6.9	9
25	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> , <b>2019</b> , 20,	6.3	10
24	High-yielding rice Takanari has superior photosynthetic response to a commercial rice Koshihikari under fluctuating light. <i>Journal of Experimental Botany</i> , <b>2019</b> , 70, 5287-5297	7	20
23	Plant-Unique / Isomerism of Long-Chain Base Unsaturation is Selectively Required for Aluminum Tolerance Resulting from Glucosylceramide-Dependent Plasma Membrane Fluidity. <i>Plants</i> , <b>2019</b> , 9,	4.5	4

22	Effects of Elevated Atmospheric CO <sub>2</sub> on Respiratory Rates in Mature Leaves of Two Rice Cultivars Grown at a Free-Air CO <sub>2</sub> Enrichment Site and Analyses of the Underlying Mechanisms. <i>Plant and Cell Physiology</i> , <b>2018</b> , 59, 637-649	4.9	8
21	Ferredoxin/thioredoxin system plays an important role in the chloroplastic NADP status of Arabidopsis. <i>Plant Journal</i> , <b>2018</b> , 95, 947-960	6.9	17
20	Evaluation of metabolic changes in oxalate-rich plant <i>Rumex obtusifolius</i> L. caused by ion beam irradiation. <i>Plant Physiology and Biochemistry</i> , <b>2018</b> , 122, 40-45	5.4	2
19	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> , <b>2018</b> , 115, 2974-2985	4.9	5
18	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> , <b>2017</b> , 81, 2314-2322	2.1	9
17	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> , <b>2017</b> , 218, 561-568	8.5	32
16	Metabolomic analysis of NAD kinase-deficient mutants of the cyanobacterium <i>Synechocystis</i> sp. PCC 6803. <i>Journal of Plant Physiology</i> , <b>2016</b> , 205, 105-112	3.6	9
15	Metabolic alterations in leaves of oxalate-rich plant <i>Rumex obtusifolius</i> L. irradiated by gamma rays. <i>Metabolomics</i> , <b>2015</b> , 11, 134-142	4.7	6
14	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> , <b>2015</b> , 17, 997-1004	3.7	13
13	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> , <b>2014</b> , 4, 770-87	3	17
12	Culture temperature affects gene expression and metabolic pathways in the 2-methylisoborneol-producing cyanobacterium <i>Pseudanabaena galeata</i> . <i>Journal of Plant Physiology</i> , <b>2014</b> , 171, 292-300	3.6	30
11	Metabolome analysis of food-chain between plants and insects. <i>Metabolomics</i> , <b>2013</b> , 9, 1254-1261	4.7	9
10	An antagonist treatment in combination with tracer experiments revealed isocitrate pathway dominant to oxalate biosynthesis in <i>Rumex obtusifolius</i> L.. <i>Metabolomics</i> , <b>2013</b> , 9, 590-598	4.7	18
9	Impact of aluminium stress on oxalate and other metabolites in <i>Rumex obtusifolius</i> . <i>Weed Research</i> , <b>2013</b> , 53, 30-41	1.9	11
8	Deletion of the transcriptional regulator cyAbrB2 deregulates primary carbon metabolism in <i>Synechocystis</i> sp. PCC 6803. <i>Plant Physiology</i> , <b>2013</b> , 162, 1153-63	6.6	35
7	Comparative metabolomics of developmental alterations caused by mineral deficiency during in vitro culture of <i>Gentiana triflora</i> . <i>Metabolomics</i> , <b>2012</b> , 8, 154-163	4.7	32
6	Fate of <sup>13</sup> C in metabolic pathways and effects of high CO <sub>2</sub> on the alteration of metabolites in <i>Rumex obtusifolius</i> L.. <i>Metabolomics</i> , <b>2011</b> , 7, 524-535	4.7	15
5	Characterization of glucosylceramides in the Polygonaceae, <i>Rumex obtusifolius</i> L. injurious weed. <i>Bioscience, Biotechnology and Biochemistry</i> , <b>2011</b> , 75, 877-81	2.1	7

4	Principal component and hierarchical clustering analysis of metabolites in destructive weeds; polygonaceous plants. <i>Metabolomics</i> , <b>2010</b> , 6, 146-155	4-7	51
3	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> , <b>2010</b> , 6, 497-510	4-7	15
2	Molecular adaptation of <i>rbcl</i> in the heterophyllous aquatic plant <i>Potamogeton</i> . <i>PLoS ONE</i> , <b>2009</b> , 4, e46337	37	42
1	Intraspecific interaction of host plant influences local distribution of specialist herbivores through metabolic alterations in leaves		1