

Shin-Ichi Miyazawa

List of Publications by Citations

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26

papers

1,543

citations

17

h-index

27

g-index

27

ext. papers

1,710

ext. citations

4.9

avg, IF

4.2

L-index

#	Paper	IF	Citations
26	Why are Sun Leaves Thicker than Shade Leaves? [Consideration based on Analyses of CO ₂ Diffusion in the Leaf. <i>Journal of Plant Research</i> , 2001 , 114, 93-105	2.6	239
25	Biosynthesis of astaxanthin in tobacco leaves by transplastomic engineering. <i>Plant Journal</i> , 2008 , 55, 857-68	6.9	137
24	The influence of leaf thickness on the CO ₂ transfer conductance and leaf stable carbon isotope ratio for some evergreen tree species in Japanese warm-temperate forests. <i>Functional Ecology</i> , 1999 , 13, 632-639	5.6	137
23	Phosphoenolpyruvate carboxylase intrinsically located in the chloroplast of rice plays a crucial role in ammonium assimilation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 5226-31	11.5	119
22	Construction and maintenance of the optimal photosynthetic systems of the leaf, herbaceous plant and tree: an eco-developmental treatise. <i>Annals of Botany</i> , 2005 , 95, 507-19	4.1	118
21	Slow development of leaf photosynthesis in an evergreen broad-leaved tree, <i>Castanopsis sieboldii</i> : relationships between leaf anatomical characteristics and photosynthetic rate. <i>Plant, Cell and Environment</i> , 2001 , 24, 279-291	8.4	110
20	Stomatal development in new leaves is related to the stomatal conductance of mature leaves in poplar (<i>Populus trichocarpax</i> P. <i>deltoides</i>). <i>Journal of Experimental Botany</i> , 2006 , 57, 373-80	7	98
19	Metabolic turnover analysis by a combination of in vivo ¹³ C-labelling from ¹³ CO ₂ and metabolic profiling with CE-MS/MS reveals rate-limiting steps of the C ₃ photosynthetic pathway in <i>Nicotiana tabacum</i> leaves. <i>Journal of Experimental Botany</i> , 2010 , 61, 1041-51	7	97
18	Role of OsNPR1 in rice defense program as revealed by genome-wide expression analysis. <i>Plant Molecular Biology</i> , 2010 , 74, 549-62	4.6	82
17	Deactivation of aquaporins decreases internal conductance to CO diffusion in tobacco leaves grown under long-term drought. <i>Functional Plant Biology</i> , 2008 , 35, 553-564	2.7	66
16	Lessons from engineering a single-cell C(4) photosynthetic pathway into rice. <i>Journal of Experimental Botany</i> , 2011 , 62, 3021-9	7	59
15	Slow Leaf Development of Evergreen Broad-leaved Tree Species in Japanese Warm Temperate Forests. <i>Annals of Botany</i> , 1998 , 82, 859-869	4.1	55
14	Effects of polyploidy on photosynthetic properties and anatomy in leaves of <i>Phlox drummondii</i> . <i>Functional Plant Biology</i> , 2007 , 34, 673-682	2.7	52
13	Changes in mesophyll anatomy and sink-source relationships during leaf development in <i>Quercus glauca</i> , an evergreen tree showing delayed leaf greening. <i>Plant, Cell and Environment</i> , 2003 , 26, 745-755	8.4	42
12	Relationships between light, leaf nitrogen and nitrogen remobilization in the crowns of mature evergreen <i>Quercus glauca</i> trees. <i>Tree Physiology</i> , 2004 , 24, 1157-64	4.2	26
11	Effects of leaf age on internal CO ₂ transfer conductance and photosynthesis in tree species having different types of shoot phenology. <i>Functional Plant Biology</i> , 2001 , 28, 1075	2.7	19
10	Maintenance mechanisms of the pipe model relationship and Leonardo da Vinci's rule in the branching architecture of <i>Acer rufinerve</i> trees. <i>Journal of Plant Research</i> , 2009 , 122, 41-52	2.6	17

9	Sites of action of elevated CO ₂ on leaf development in rice: discrimination between the effects of elevated CO ₂ and nitrogen deficiency. <i>Plant and Cell Physiology</i> , 2014 , 55, 258-68	4.9	15
8	Costs of protein turnover and carbohydrate export in leaves of sun and shade species. <i>Functional Plant Biology</i> , 2001 , 28, 37	2.7	14
7	Determination of the site of CO ₂ sensing in poplar: is the area-based N content and anatomy of new leaves determined by their immediate CO ₂ environment or by the CO ₂ environment of mature leaves?. <i>Journal of Experimental Botany</i> , 2011 , 62, 2787-96	7	13
6	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
5	Elevated CO ₂ decreases the Photorespiratory NH ₃ production but does not decrease the NH ₃ compensation point in rice leaves. <i>Plant and Cell Physiology</i> , 2014 , 55, 1582-91	4.9	8
4	Somatic Embryogenesis Initiation in Sugi (Japanese Cedar, D. Don): Responses from Male-Fertile, Male-Sterile, and Polycross-Pollinated-Derived Seed Explants. <i>Plants</i> , 2021 , 10,	4.5	4
3	Low assimilation efficiency of photorespiratory ammonia in conifer leaves. <i>Journal of Plant Research</i> , 2018 , 131, 789-802	2.6	3
2	Dehydroquinase dehydratase/shikimate dehydrogenases involved in gallate biosynthesis of the aluminum-tolerant tree species <i>Eucalyptus camaldulensis</i> . <i>Planta</i> , 2020 , 253, 3	4.7	3
1	Oxygen response of leaf CO ₂ compensation points used to determine Rubisco specificity factors of gymnosperm species. <i>Journal of Plant Research</i> , 2020 , 133, 205-215	2.6	2