Shin-Ichi Miyazawa

List of Publications by Year
in descending order

26 papers	1,903 citations	393982 19 h-index	552369 26 g-index
27 all docs	27 docs citations	27 times ranked	2444 citing authors

#	Article	IF	Citations
1	Why are Sun Leaves Thicker than Shade Leaves? â€" Consideration based on Analyses of CO2 Diffusion in the Leaf. Journal of Plant Research, 2001, 114, 93-105.	1.2	292
2	The influence of leaf thickness on the CO2 transfer conductance and leaf stable carbon isotope ratio for some evergreen tree species in Japanese warm-temperate forests. Functional Ecology, 1999, 13, 632-639.	1.7	168
3	Biosynthesis of astaxanthin in tobacco leaves by transplastomic engineering. Plant Journal, 2008, 55, 857-868.	2.8	155
4	Phosphoenolpyruvate carboxylase intrinsically located in the chloroplast of rice plays a crucial role in ammonium assimilation. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 5226-5231.	3.3	147
5	Construction and Maintenance of the Optimal Photosynthetic Systems of the Leaf, Herbaceous Plant and Tree: an Eco-developmental Treatise. Annals of Botany, 2004, 95, 507-519.	1.4	137
6	Slow development of leaf photosynthesis in an evergreen broad-leaved tree, Castanopsis sieboldii : relationships between leaf anatomical characteristics and photosynthetic rate. Plant, Cell and Environment, 2001, 24, 279-291.	2.8	130
7	Metabolic turnover analysis by a combination of in vivo13C-labelling from 13CO2 and metabolic profiling with CE-MS/MS reveals rate-limiting steps of the C3 photosynthetic pathway in Nicotiana tabacum leaves. Journal of Experimental Botany, 2010, 61, 1041-1051.	2.4	117
8	Stomatal development in new leaves is related to the stomatal conductance of mature leaves in poplar (Populus trichocarpaÃ—P. deltoides). Journal of Experimental Botany, 2006, 57, 373-380.	2.4	114
9	Role of OsNPR1 in rice defense program as revealed by genome-wide expression analysis. Plant Molecular Biology, 2010, 74, 549-562.	2.0	104
10	Lessons from engineering a single-cell C4 photosynthetic pathway into rice. Journal of Experimental Botany, 2011, 62, 3021-3029.	2.4	79
11	Deactivation of aquaporins decreases internal conductance to CO2 diffusion in tobacco leaves grown under long-term drought. Functional Plant Biology, 2008, 35, 553.	1.1	75
12	Slow Leaf Development of Evergreen Broad-leaved Tree Species in Japanese Warm Temperate Forests. Annals of Botany, 1998, 82, 859-869.	1.4	68
13	Effects of polyploidy on photosynthetic properties and anatomy in leaves of Phlox drummondii. Functional Plant Biology, 2007, 34, 673.	1.1	63
14	Changes in mesophyll anatomy and sink-source relationships during leaf development in Quercus glauca , an evergreen tree showing delayed leaf greening. Plant, Cell and Environment, 2003, 26, 745-755.	2.8	54
15	Relationships between light, leaf nitrogen and nitrogen remobilization in the crowns of mature evergreen Quercus glauca trees. Tree Physiology, 2004, 24, 1157-1164.	1.4	28
16	Effects of leaf age on internal CO2 transfer conductance and photosynthesis in tree species having different types of shoot phenology. Functional Plant Biology, 2001, 28, 1075.	1.1	26
17	Maintenance mechanisms of the pipe model relationship and Leonardo da Vinciâ€™s rule in the branching architecture of Acer rufinerve trees. Journal of Plant Research, 2009, 122, 41-52.	1.2	24
18	Sites of Action of Elevated CO2 on Leaf Development in Rice: Discrimination between the Effects of Elevated CO2 and Nitrogen Deficiency. Plant and Cell Physiology, 2014, 55, 258-268.	1.5	22

#	Article	IF	Citations
19	Costs of protein turnover and carbohydrate export in leaves of sun and shade species. Functional Plant Biology, 2001, 28, 37.	1.1	20
20	Determination of the site of CO2 sensing in poplar: is the area-based N content and anatomy of new leaves determined by their immediate CO2 environment or by the CO2 environment of mature leaves?. Journal of Experimental Botany, 2011, 62, 2787-2796.	2.4	17
21	Dehydroquinate dehydratase/shikimate dehydrogenases involved in gallate biosynthesis of the aluminum-tolerant tree species Eucalyptus camaldulensis. Planta, 2021, 253, 3.	1.6	17
22	Effects of Elevated Atmospheric CO2 on Respiratory Rates in Mature Leaves of Two Rice Cultivars Grown at a Free-Air CO2 Enrichment Site and Analyses of the Underlying Mechanisms. Plant and Cell Physiology, 2018, 59, 637-649.	1.5	16
23	Elevated CO2 Decreases the Photorespiratory NH3 Production but Does not Decrease the NH3 Compensation Point in Rice Leaves. Plant and Cell Physiology, 2014, 55, 1582-1591.	1.5	12
24	Low assimilation efficiency of photorespiratory ammonia in conifer leaves. Journal of Plant Research, 2018, 131, 789-802.	1.2	6
25	Oxygen response of leaf CO2 compensation points used to determine Rubisco specificity factors of gymnosperm species. Journal of Plant Research, 2020, 133, 205-215.	1.2	6
26	Somatic Embryogenesis Initiation in Sugi (Japanese Cedar, Cryptomeria japonica D. Don): Responses from Male-Fertile, Male-Sterile, and Polycross-Pollinated-Derived Seed Explants. Plants, 2021, 10, 398.	1.6	6