

Leaf gas exchange, carbon isotope discrimination, and g  
genotypes subjected to water deficits during the reprod

Journal of Experimental Botany

60, 2325-2339

DOI: [10.1093/jxb/erp123](https://doi.org/10.1093/jxb/erp123)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Improvement of Drought Resistance in Rice. <i>Advances in Agronomy</i> , 2009, , 41-99.	2.4	122
2	Rice leaf growth and water potential are resilient to evaporative demand and soil water deficit once the effects of root system are neutralized. <i>Plant, Cell and Environment</i> , 2010, 33, 1256-1267.	2.8	94
3	Simultaneously improving yield under drought stress and non-stress conditions: a case study of rice ( <i>Oryza sativa</i> L.). <i>Journal of Experimental Botany</i> , 2010, 61, 4145-4156.	2.4	86
4	Broader leaves result in better performance of indica rice under drought stress. <i>Journal of Plant Physiology</i> , 2010, 167, 1066-1075.	1.6	103
5	Current Status of Research on Improvement of Drought Resistance in Rice ( <i>Oryza sativa</i> L.). <i>Japanese Journal of Crop Science</i> , 2011, 80, 1-12.	0.1	6
6	Genotypic Variation of Gas Exchange Parameters and Leaf Stable Carbon and Nitrogen Isotopes in Ten Quinoa Cultivars Grown under Drought. <i>Journal of Agronomy and Crop Science</i> , 2011, 197, 81-93.	1.7	53
7	Estimation of canopy average mesophyll conductance using $\delta^{13}\text{C}$ of phloem contents. <i>Plant, Cell and Environment</i> , 2011, 34, 1521-1535.	2.8	27
8	Gene discovery in cereals through quantitative trait loci and expression analysis in water-use efficiency measured by carbon isotope discrimination. <i>Plant, Cell and Environment</i> , 2011, 34, 2009-2023.	2.8	32
9	The <i>Arabidopsis thaliana</i> aquaporin AtPIP1;2 is a physiologically relevant $\text{CO}_2$ transport facilitator. <i>Plant Journal</i> , 2011, 67, 795-804.	2.8	177
10	Changes in photosynthesis, mesophyll conductance to $\text{CO}_2$ , and isoprenoid emissions in <i>Populus nigra</i> plants exposed to excess nickel. <i>Environmental Pollution</i> , 2011, 159, 1058-1066.	3.7	70
11	Rice near-isogenic-lines (NILs) contrasting for grain yield under lowland drought stress. <i>Field Crops Research</i> , 2011, 123, 38-46.	2.3	44
12	Physiological characterization of introgression lines derived from an indica rice cultivar, IR64, adapted to drought and water-saving irrigation. <i>Field Crops Research</i> , 2011, 123, 130-138.	2.3	44
13	Genetic analysis and validation of quantitative trait loci associated with reproductive-growth traits and grain yield under drought stress in a doubled haploid line population of rice ( <i>Oryza sativa</i> L.). <i>Field Crops Research</i> , 2011, 124, 46-58.	2.3	34
14	Influence of growth temperature and measuring temperature on isoprene emission, diffusive limitations of photosynthesis and respiration in hybrid poplars. <i>Atmospheric Environment</i> , 2011, 45, 155-161.	1.9	30
15	Light acclimation at the end of the growing season in two broadleaved oak species. <i>Photosynthetica</i> , 2011, 49, 581-592.	0.9	19
16	Independent variation in photosynthetic capacity and stomatal conductance leads to differences in intrinsic water use efficiency in 11 soybean genotypes before and during mild drought. <i>Journal of Experimental Botany</i> , 2011, 62, 2875-2887.	2.4	171
17	Different sensitivity of isoprene emission, respiration and photosynthesis to high growth temperature coupled with drought stress in black poplar ( <i>Populus nigra</i> ) saplings. <i>Tree Physiology</i> , 2011, 31, 275-286.	1.4	111
18	Drought Resistance Improvement in Rice: An Integrated Genetic and Resource Management Strategy. <i>Plant Production Science</i> , 2011, 14, 1-14.	0.9	192

#	ARTICLE	IF	CITATIONS
19	Physiological basis of genetic variation in leaf photosynthesis among rice ( <i>Oryza sativa</i> L.) introgression lines under drought and well-watered conditions. <i>Journal of Experimental Botany</i> , 2012, 63, 5137-5153.	2.4	110
20	Silicon nutrition increases grain yield, which, in turn, exerts a feedâ€forward stimulation of photosynthetic rates via enhanced mesophyll conductance and alters primary metabolism in rice. <i>New Phytologist</i> , 2012, 196, 752-762.	3.5	239
21	Mesophyll diffusion conductance to CO <sub>2</sub> : An unappreciated central player in photosynthesis. <i>Plant Science</i> , 2012, 193-194, 70-84.	1.7	563
22	Assessing the impact of internal conductance to CO <sub>2</sub> in a land-surface scheme: Measurement and modelling of photosynthesis in <i>Populus nigra</i> . <i>Agricultural and Forest Meteorology</i> , 2012, 152, 240-251.	1.9	6
23	Changes in stomatal function and water use efficiency in potato plants with altered sucrolytic activity. <i>Plant, Cell and Environment</i> , 2012, 35, 747-759.	2.8	65
24	Involvement of peduncle elongation, anther dehiscence and spikelet sterility in upland rice response to reproductive-stage drought stress. <i>Environmental and Experimental Botany</i> , 2012, 75, 120-127.	2.0	38
25	Relative contribution of photoprotection and anti-oxidative mechanisms to differential drought adaptation ability in grapevines. <i>Environmental and Experimental Botany</i> , 2012, 78, 173-183.	2.0	33
26	Diffusional conductances to CO <sub>2</sub> as a target for increasing photosynthesis and photosynthetic water-use efficiency. <i>Photosynthesis Research</i> , 2013, 117, 45-59.	1.6	305
27	Genomics and Breeding for Climate-Resilient Crops. , 2013, , .		10
28	Photorespiratory compensation: a driver for biological diversity. <i>Plant Biology</i> , 2013, 15, 624-638.	1.8	46
29	Assessment of yield based selection under managed field stress condition for breeding for rice yield improvement under drought. <i>Biologia (Poland)</i> , 2013, 68, 569-576.	0.8	4
30	Isoprenoid emissions, photosynthesis and mesophyll diffusion conductance in response to blue light. <i>Environmental and Experimental Botany</i> , 2013, 95, 50-58.	2.0	25
31	Water relations, physiological behavior and antioxidant defence mechanism of olive plants subjected to different irrigation regimes. <i>Scientia Horticulturae</i> , 2013, 153, 150-156.	1.7	50
32	Do faba bean ( <i>Vicia faba</i> L.) accessions from environments with contrasting seasonal moisture availabilities differ in stomatal characteristics and related traits?. <i>Genetic Resources and Crop Evolution</i> , 2013, 60, 2343-2357.	0.8	28
33	Reciprocal grafting separates the roles of the root and shoot in sexâ€related drought responses in <i>Populus cathayana</i> males and females. <i>Plant, Cell and Environment</i> , 2013, 36, 356-364.	2.8	36
34	The association of carbon isotope discrimination ( $\delta^{13}C$ ) with gas exchange parameters and yield traits in Chinese bread wheat cultivars under two water regimes. <i>Agricultural Water Management</i> , 2013, 119, 111-120.	2.4	27
35	Drought stress response in <i>Jatropha curcas</i> : Growth and physiology. <i>Environmental and Experimental Botany</i> , 2013, 85, 76-84.	2.0	159
36	Physiological and growth responses to water deficit in the bioenergy crop <i>Miscanthus x giganteus</i> . <i>Frontiers in Plant Science</i> , 2013, 4, 468.	1.7	82

#	ARTICLE	IF	CITATIONS
37	Ultradian variation of isoprene emission, photosynthesis, mesophyll conductance, and optimum temperature sensitivity for isoprene emission in water-stressed <i>Eucalyptus citriodora</i> saplings. <i>Journal of Experimental Botany</i> , 2013, 64, 519-528.	2.4	44
38	Coordination of Leaf Photosynthesis, Transpiration, and Structural Traits in Rice and Wild Relatives (Genus <i>Oryza</i> ). <i>Plant Physiology</i> , 2013, 162, 1632-1651.	2.3	206
39	Identification of Drought Tolerance Markers in a Diverse Population of Rice Cultivars by Expression and Metabolite Profiling. <i>PLoS ONE</i> , 2013, 8, e63637.	1.1	119
40	Photosynthetic capacity and water use efficiency in sugarcane genotypes subject to water deficit during early growth phase. <i>Brazilian Archives of Biology and Technology</i> , 2013, 56, 735-748.	0.5	86
41	Ethylene Inhibitors Increase Net Assimilation Rate and Cotton Boll Dry Matter Under Drought. <i>Journal of Agricultural Science</i> , 2014, 6, .	0.1	0
42	Photosynthetic Diffusional Constraints Affect Yield in Drought Stressed Rice Cultivars during Flowering. <i>PLoS ONE</i> , 2014, 9, e109054.	1.1	75
43	Alleviation of Water Stress Effects on MR220 Rice by Application of Periodical Water Stress and Potassium Fertilization. <i>Molecules</i> , 2014, 19, 1795-1819.	1.7	35
44	Impact of cyclic water stress on growth, physiological responses and yield of rice ( <i>Oryza sativa</i> L.) grown in tropical environment. <i>Ciencia Rural</i> , 2014, 44, 2136-2141.	0.3	28
45	&lt;b&gt;Leaf-level carbon isotope discrimination and its relationship with yield components as a tool for cotton phenotyping in unfavorable conditions. <i>Acta Scientiarum - Agronomy</i> , 2014, 36, 335.	0.6	7
46	Rice GROWTH UNDER DROUGHT KINASE Is Required for Drought Tolerance and Grain Yield under Normal and Drought Stress Conditions. <i>Plant Physiology</i> , 2014, 166, 1634-1645.	2.3	87
47	Variability of mesophyll conductance in grapevine cultivars under water stress conditions in relation to leaf anatomy and water use efficiency. <i>Australian Journal of Grape and Wine Research</i> , 2014, 20, 272-280.	1.0	62
48	Implications of the mesophyll conductance to $CO_2$ for photosynthesis and water use efficiency during long-term water stress and recovery in two contrasting <i>Eucalyptus</i> species. <i>Plant, Cell and Environment</i> , 2014, 37, 2470-2490.	2.8	95
49	Responses of carbon and oxygen stable isotopes in rice grain ( <i>Oryza sativa</i> L.) to an increase in air temperature during grain filling in the Japanese archipelago. <i>Ecological Research</i> , 2014, 29, 45-53.	0.7	16
50	Assessing gas exchange, sap flow and water relations using tree canopy spectral reflectance indices in irrigated and rainfed <i>Olea europaea</i> L.. <i>Environmental and Experimental Botany</i> , 2014, 99, 43-52.	2.0	75
51	Variation in leaf photosynthetic response of rice genotypes to post-anthesis water deficit. <i>Indian Journal of Plant Physiology</i> , 2014, 19, 127-137.	0.8	9
52	The stress factor, exogenous ascorbic acid, affects plant growth and the antioxidant system in <i>Arabidopsis thaliana</i> . <i>Russian Journal of Plant Physiology</i> , 2014, 61, 467-475.	0.5	51
53	Leaf Carbon Isotope Discrimination as an Accurate Indicator of Water Use Efficiency in Sunflower Genotypes Subjected to Five Stable Soil Water Contents. <i>Journal of Agronomy and Crop Science</i> , 2014, 200, 416-424.	1.7	21
54	Threshold response of mesophyll $CO_2$ conductance to leaf hydraulics in highly transpiring hybrid poplar clones exposed to soil drying. <i>Journal of Experimental Botany</i> , 2014, 65, 741-753.	2.4	39

#	ARTICLE	IF	CITATIONS
55	Influence of seedling age and nitrogen application on photosynthesis and yield of rice ( <i>Oryza sativa</i> ) grown under waterlogged condition. <i>Indian Journal of Plant Physiology</i> , 2014, 19, 83-86.	0.8	3
56	Variation in mesophyll conductance among Australian wheat genotypes. <i>Functional Plant Biology</i> , 2014, 41, 568.	1.1	64
57	Genomics for drought resistance "getting down to earth". <i>Functional Plant Biology</i> , 2014, 41, 1191.	1.1	75
58	Atmospheric Dust Accumulation on Native and Non-Native Species: Effects on Gas Exchange Parameters. <i>Journal of Environmental Quality</i> , 2014, 43, 801-808.	1.0	6
59	Contrasting rice backcross inbred lines (BILs) for grain yield and heading under lowland reproductive stage moisture stress. <i>European Journal of Agronomy</i> , 2015, 70, 85-97.	1.9	2
60	Analysis of Maize Photosynthesis Parameters and Whole Plant Oxidative Damage Under Long-term Drought. <i>Advances in Crop Science and Technology</i> , 0, s1, .	0.4	3
61	Physiological effects of water deficit on two oil palm ( <i>Elaeis guineensis</i> Jacq.) genotypes. <i>Agronomia Colombiana</i> , 2015, 33, 164-173.	0.1	22
62	Regulation of grain yield in rice under well-watered and drought stress conditions by GUDK. <i>Plant Signaling and Behavior</i> , 2015, 10, e1034421.	1.2	6
63	Responses of Common Reed ( <i>Phragmites australis</i> ) to Nitrogen and Temperature Manipulations. <i>Great Plains Research</i> , 2015, 25, 63-74.	0.2	4
64	The fungal endophyte <i>Epichloa typhina</i> improves photosynthesis efficiency of its host orchard grass ( <i>Dactylis glomerata</i> ). <i>Planta</i> , 2015, 242, 1025-1035.	1.6	89
65	Stomatal Conductance Is Essential for Higher Yield Potential of C <sub>3</sub> Crops. <i>Critical Reviews in Plant Sciences</i> , 2015, 34, 429-453.	2.7	118
66	Growth habit and leaf economics determine gas exchange responses to high elevation in an evergreen tree, a deciduous shrub and a herbaceous annual. <i>AoB PLANTS</i> , 2015, 7, p115.	1.2	18
67	Acclimation and Tolerance Strategies of Rice under Drought Stress. <i>Rice Science</i> , 2015, 22, 147-161.	1.7	278
68	Effects of long-term individual and combined water and temperature stress on the growth of rice, wheat and maize: relationship with morphological and physiological acclimation. <i>Physiologia Plantarum</i> , 2015, 155, 149-165.	2.6	62
69	Gas exchange responses of two poplar clones ( <i>Populus euramericana</i> (Dode) Guinier 561/41 and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.5	7
70	Evapotranspiration and grain yield of upland rice as affected by water deficit. <i>Revista Brasileira De Engenharia Agricola E Ambiental</i> , 2016, 20, 441-446.	0.4	10
71	Partial Root-Zone Drying of Olive ( <i>Olea europaea</i> var. 'Chetoui') Induces Reduced Yield under Field Conditions. <i>PLoS ONE</i> , 2016, 11, e0157089.	1.1	36
72	Silicon improves rice grain yield and photosynthesis specifically when supplied during the reproductive growth stage. <i>Journal of Plant Physiology</i> , 2016, 206, 125-132.	1.6	62

#	ARTICLE	IF	CITATIONS
73	Different forms of osmotic stress evoke qualitatively different responses in rice. <i>Journal of Plant Physiology</i> , 2016, 202, 45-56.	1.6	25
74	An <i>Epichloa</i> endophyte improves photosynthetic ability and dry matter production of its host <i>Achnatherum inebrians</i> infected by <i>Blumeria graminis</i> under various soil water conditions. <i>Fungal Ecology</i> , 2016, 22, 26-34.	0.7	56
75	Canopy scale CO <sub>2</sub> exchange and productivity of transplanted paddy and direct seeded rainfed rice production systems in S. Korea. <i>Agricultural and Forest Meteorology</i> , 2016, 228-229, 229-238.	1.9	23
76	Comparison of physiological and anatomical changes of C3 ( <i>Oryza sativa</i> [L.] and C4 ( <i>Echinochloa crusgalli</i> [L.] leaves in response to drought stress. <i>IOP Conference Series: Earth and Environmental Science</i> , 2016, 31, 012040.	0.2	7
77	Fingerprinting environmental conditions and related stress using stable isotopic composition of rice ( <i>Oryza sativa</i> L.) grain organic matter. <i>Ecological Indicators</i> , 2016, 61, 941-951.	2.6	9
78	Xylem morphology determines the drought response of two <i>Arundo donax</i> ecotypes from contrasting habitats. <i>GCB Bioenergy</i> , 2017, 9, 119-131.	2.5	41
79	Coordination between leaf CO <sub>2</sub> diffusion and Rubisco properties allows maximizing photosynthetic efficiency in <i>Limonium</i> species. <i>Plant, Cell and Environment</i> , 2017, 40, 2081-2094.	2.8	29
80	Physiological performance of two contrasting rice varieties under water stress. <i>Physiology and Molecular Biology of Plants</i> , 2017, 23, 85-97.	1.4	36
81	Screening and Comparative Analysis of Drought Tolerance of Rice Varieties at the Reproductive Stage. <i>Crop Science</i> , 2017, 57, 395-403.	0.8	1
82	Guard cell-specific down-regulation of the sucrose transporter SUT1 leads to improved water use efficiency and reveals the interplay between carbohydrate metabolism and K <sup>+</sup> accumulation in the regulation of stomatal opening. <i>Environmental and Experimental Botany</i> , 2017, 135, 73-85.	2.0	43
83	Effects of beneficial microorganisms on lowland rice development. <i>Environmental Science and Pollution Research</i> , 2017, 24, 25233-25242.	2.7	20
84	The role of <i>Euglena gracilis</i> paramylon in modulating xylem hormone levels, photosynthesis and water use efficiency in <i>Solanum lycopersicum</i> L. <i>Physiologia Plantarum</i> , 2017, 161, 486-501.	2.6	28
85	Understanding regulation of leaf internal carbon and water transport using online stable isotope techniques. <i>New Phytologist</i> , 2017, 213, 83-88.	3.5	21
86	Drought-inducible expression of Hv-miR827 enhances drought tolerance in transgenic barley. <i>Functional and Integrative Genomics</i> , 2017, 17, 279-292.	1.4	62
87	Rubisco and Rubisco Activase Play an Important Role in the Biochemical Limitations of Photosynthesis in Rice, Wheat, and Maize under High Temperature and Water Deficit. <i>Frontiers in Plant Science</i> , 2017, 8, 490.	1.7	240
88	Development of SSR Markers Based on Transcriptome Sequencing and Association Analysis with Drought Tolerance in Perennial Grass <i>Miscanthus</i> from China. <i>Frontiers in Plant Science</i> , 2017, 8, 801.	1.7	19
89	Expression of the <i>Aeluropus littoralis</i> ALSAP Gene Enhances Rice Yield under Field Drought at the Reproductive Stage. <i>Frontiers in Plant Science</i> , 2017, 8, 994.	1.7	20
90	Losing the Warning Signal: Drought Compromises the Cross-Talk of Signaling Molecules in <i>Quercus ilex</i> Exposed to Ozone. <i>Frontiers in Plant Science</i> , 2017, 8, 1020.	1.7	37

#	ARTICLE	IF	CITATIONS
91	Ascophyllum nodosum Seaweed Extract Alleviates Drought Stress in Arabidopsis by Affecting Photosynthetic Performance and Related Gene Expression. <i>Frontiers in Plant Science</i> , 2017, 8, 1362.	1.7	137
92	Nutrient uptake and content in sorghum cultivars ( <i>Sorghum bicolor</i> L) under summer environment. <i>Indian Journal of Plant Physiology</i> , 2017, 22, 309-315.	0.8	5
93	Photosynthetic capacity and water use efficiency in <i>Ricinus communis</i> (L.) under drought stress in semi-humid and semi-arid areas. <i>Anais Da Academia Brasileira De Ciencias</i> , 2017, 89, 3015-3029.	0.3	27
94	Auxin protects spikelet fertility and grain yield under drought and heat stresses in rice. <i>Environmental and Experimental Botany</i> , 2018, 150, 9-24.	2.0	79
95	Impacts of variable soil drying in alternate wetting and drying rice systems on yields, grain arsenic concentration and soil moisture dynamics. <i>Field Crops Research</i> , 2018, 222, 101-110.	2.3	114
96	Physiological responses of commercial sugarcane ( <i>Saccharum</i> spp. hybrids) varieties to moisture deficit stress tolerance. <i>Indian Journal of Plant Physiology</i> , 2018, 23, 40-47.	0.8	5
97	Effect of <i>Epichloa gansuensis</i> endophyte and transgenerational effects on the water use efficiency, nutrient and biomass accumulation of <i>Achnatherum inebrians</i> under soil water deficit. <i>Plant and Soil</i> , 2018, 424, 555-571.	1.8	53
98	Global diurnal and nocturnal parameters of stomatal conductance in woody plants and major crops. <i>Global Ecology and Biogeography</i> , 2018, 27, 257-275.	2.7	38
99	Mesophyll conductance in <i>Zea mays</i> responds transiently to $CO_2$ availability: implications for transpiration efficiency in $C_4$ crops. <i>New Phytologist</i> , 2018, 217, 1463-1474.	3.5	30
100	Performance of low phosphorus tolerant rice genotypes under drought stress. <i>Revista Ceres</i> , 2018, 65, 253-260.	0.1	0
101	Quinoa Abiotic Stress Responses: A Review. <i>Plants</i> , 2018, 7, 106.	1.6	166
102	The Impact of Heat Stress and Water Deficit on the Photosynthetic and Stomatal Physiology of Olive ( <i>Olea europaea</i> L.)—A Case Study of the 2017 Heat Wave. <i>Plants</i> , 2018, 7, 76.	1.6	71
103	Physiological characterization and allelic diversity of selected drought tolerant traditional rice ( <i>Oryza sativa</i> L.) landraces of Koraput, India. <i>Physiology and Molecular Biology of Plants</i> , 2018, 24, 1035-1046.	1.4	35
104	An introductory guide to gas exchange analysis of photosynthesis and its application to plant phenotyping and precision irrigation to enhance water use efficiency. <i>Journal of Water and Climate Change</i> , 2018, 9, 786-808.	1.2	25
105	Physiological and Agronomic Responses of Four Rice Varieties to Drought in the Rainforest. <i>Notulae Scientia Biologicae</i> , 2018, 10, 220-227.	0.1	3
106	Resilient Leaf Physiological Response of European Beech ( <i>Fagus sylvatica</i> L.) to Summer Drought and Drought Release. <i>Frontiers in Plant Science</i> , 2018, 9, 187.	1.7	54
107	Actinobacteria Associated With Arbuscular Mycorrhizal <i>Funneliformis mosseae</i> Spores, Taxonomic Characterization and Their Beneficial Traits to Plants: Evidence Obtained From Mung Bean ( <i>Vigna</i> )	0.0	0
108	Introgression of Physiological Traits for a Comprehensive Improvement of Drought Adaptation in Crop Plants. <i>Frontiers in Chemistry</i> , 2018, 6, 92.	1.8	46



#	ARTICLE	IF	CITATIONS
109	Priming with methyl jasmonate alleviates polyethylene glycol-induced osmotic stress in rice seeds by regulating the seed metabolic profile. <i>Environmental and Experimental Botany</i> , 2018, 153, 236-248.	2.0	57
110	Evaluation of physiological markers for assessing drought tolerance and yield potential in bread wheat. <i>Physiology and Molecular Biology of Plants</i> , 2019, 25, 1163-1174.	1.4	18
111	High mesophyll conductance in the high-yielding rice cultivar Takanari quantified with the combined gas exchange and chlorophyll fluorescence measurements under free-air CO <sub>2</sub> enrichment. <i>Plant Production Science</i> , 2019, 22, 395-406.	0.9	13
112	Improving drought tolerance by altering the photosynthetic rate and stomatal aperture via green light in tomato ( <i>Solanum lycopersicum</i> L.) seedlings under drought conditions. <i>Environmental and Experimental Botany</i> , 2019, 167, 103844.	2.0	41
113	An investigation on possible effect of leaching fractions physiological responses of hot pepper plants to irrigation water salinity. <i>BMC Plant Biology</i> , 2019, 19, 297.	1.6	6
114	Paramylon Treatment Improves Quality Profile and Drought Resistance in <i>Solanum lycopersicum</i> L. cv. Micro-Tom. <i>Agronomy</i> , 2019, 9, 394.	1.3	16
115	Drought Stress Tolerance in Wheat and Barley: Advances in Physiology, Breeding and Genetics Research. <i>International Journal of Molecular Sciences</i> , 2019, 20, 3137.	1.8	353
116	Opportunities and Limitations of Crop Phenotyping in Southern European Countries. <i>Frontiers in Plant Science</i> , 2019, 10, 1125.	1.7	37
117	Effect of moisture gradient on rice yields and greenhouse gas emissions from rice paddies. <i>Environmental Science and Pollution Research</i> , 2019, 26, 33416-33426.	2.7	6
118	The response of mesophyll conductance to short- and long-term environmental conditions in chickpea genotypes. <i>AoB PLANTS</i> , 2019, 11, ply073.	1.2	14
119	Dynamic changes in ABA content in water-stressed <i>Populus nigra</i> : effects on carbon fixation and soluble carbohydrates. <i>Annals of Botany</i> , 2019, 124, 627-643.	1.4	31
120	Stomatal conductance responses to evaporative demand conferred by rice drought-yield quantitative trait locus qDTY12.1. <i>Functional Plant Biology</i> , 2019, 46, 660.	1.1	13
121	Physiological and Metabolic Responses of Rice to Reduced Soil Moisture: Relationship of Water Stress Tolerance and Grain Production. <i>International Journal of Molecular Sciences</i> , 2019, 20, 1846.	1.8	20
122	Photosynthetic and Growth Responses of <i>Arundo donax</i> L. Plantlets Under Different Oxygen Deficiency Stresses and Reoxygenation. <i>Frontiers in Plant Science</i> , 2019, 10, 408.	1.7	20
123	The different influences of drought stress at the flowering stage on rice physiological traits, grain yield, and quality. <i>Scientific Reports</i> , 2019, 9, 3742.	1.6	130
124	Effect of Irrigation Regimes and Soil Texture on the Potassium Utilization Efficiency of Rice. <i>Agronomy</i> , 2019, 9, 100.	1.3	36
125	Survival, growth and photosynthesis analysis of native forest species established in the tropical dry forest in Antioquia, Colombia. <i>Revista Facultad Nacional De Agronomia Medellin</i> , 2019, 72, 8751-8761.	0.2	3
126	GABA-Alleviated Oxidative Injury Induced by Salinity, Osmotic Stress and their Combination by Regulating Cellular and Molecular Signals in Rice. <i>International Journal of Molecular Sciences</i> , 2019, 20, 5709.	1.8	82



#	ARTICLE	IF	CITATIONS
127	Effects of irrigation regime and soil clay content and their interaction on the biological yield, nitrogen uptake and nitrogen-use efficiency of rice grown in southern China. <i>Agricultural Water Management</i> , 2019, 213, 934-946.	2.4	58
128	Calcium silicate slag reduces drought stress in rice ( <i>Oryza sativa</i> L.). <i>Journal of Agronomy and Crop Science</i> , 2019, 205, 353-361.	1.7	26
129	Tolerant varieties and exogenous application of nutrients can effectively manage drought stress in rice. <i>Archives of Agronomy and Soil Science</i> , 2020, 66, 13-32.	1.3	1
130	Drought Stress Impairs Grain Yield and Quality of Rice Genotypes by Impaired Photosynthetic Attributes and K Nutrition. <i>Rice Science</i> , 2020, 27, 5-9.	1.7	21
131	Association mapping and genetic dissection of drought-induced canopy temperature differences in rice. <i>Journal of Experimental Botany</i> , 2020, 71, 1614-1627.	2.4	33
132	Anatomical, agro-morphological and physiological changes in rice under cumulative and stage specific drought conditions prevailed in eastern region of India. <i>Field Crops Research</i> , 2020, 245, 107658.	2.3	29
133	Photosynthesis Performance and Antioxidative Enzymes Response of <i>Melia azedarach</i> and <i>Ligustrum lucidum</i> Plants Under Pb-Zn Mine Tailing Conditions. <i>Frontiers in Plant Science</i> , 2020, 11, 571157.	1.7	11
134	Physiological and Biochemical Behaviors of Date Palm Vitroplants Treated with Microbial Consortia and Compost in Response to Salt Stress. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 8665.	1.3	27
135	Aerobic Rice with or without Strategic Irrigation in the Subtropics. <i>Agronomy</i> , 2020, 10, 1831.	1.3	4
136	Comparisons with wheat reveal root anatomical and histochemical constraints of rice under water-deficit stress. <i>Plant and Soil</i> , 2020, 452, 547-568.	1.8	37
137	A Comparison of the Variable J and Carbon-Isotopic Composition of Sugars Methods to Assess Mesophyll Conductance from the Leaf to the Canopy Scale in Drought-Stressed Cherry. <i>International Journal of Molecular Sciences</i> , 2020, 21, 1222.	1.8	7
138	Limited water availability did not protect poplar saplings from water use efficiency reduction under elevated ozone. <i>Forest Ecology and Management</i> , 2020, 462, 117999.	1.4	9
139	Eco-physiological responses of desert and riverain legume plant species to extreme environmental stress. <i>Biocatalysis and Agricultural Biotechnology</i> , 2020, 24, 101531.	1.5	4
140	The excess of phosphorus in soil reduces physiological performances over time but enhances prompt recovery of salt-stressed <i>Arundo donax</i> plants. <i>Plant Physiology and Biochemistry</i> , 2020, 151, 556-565.	2.8	19
141	Ameliorants and salt tolerant varieties improve rice-wheat production in soils undergoing sodification with alkali water irrigation in Indo-Gangetic Plains of India. <i>Agricultural Water Management</i> , 2021, 243, 106492.	2.4	44
142	Accounting for mesophyll conductance substantially improves $\delta^{13}C$ -based estimates of intrinsic water-use efficiency. <i>New Phytologist</i> , 2021, 229, 1326-1338.	3.5	52
143	Genetics and genomics of root system variation in adaptation to drought stress in cereal crops. <i>Journal of Experimental Botany</i> , 2021, 72, 1007-1019.	2.4	63
144	Genetic response of growth phases for abiotic environmental stress tolerance in cereal crop plants. <i>Genetika</i> , 2021, 53, 419-456.	0.1	7

#	ARTICLE	IF	CITATIONS
145	Morpho-agronomic traits and balance of sink and source of rice planted on upland rainfed. IOP Conference Series: Earth and Environmental Science, 2021, 667, 012108.	0.2	1
146	Physiological and oxidative defense responses of local rice cultivars "Nusa Tenggara Timur-Indonesia" during vegetative drought stress. Australian Journal of Crop Science, 2021, , 394-400.	0.1	2
147	Evaluation of Fourteen Bread Wheat ( <i>Triticum aestivum</i> L.) Genotypes by Observing Gas Exchange Parameters, Relative Water and Chlorophyll Content, and Yield Attributes under Drought Stress. Sustainability, 2021, 13, 4799.	1.6	53
148	The genetic basis of water-use efficiency and yield in lettuce. BMC Plant Biology, 2021, 21, 237.	1.6	8
149	Do shoot anatomical characteristics allow rice to grow well under water deficit?. Journal of Agronomy and Crop Science, 2022, 208, 763-776.	1.7	2
150	Relationship between physiological traits and yield of rice ( <i>Oryza sativa</i> L.) under modified system of rice intensification. Journal of Applied and Natural Science, 2021, 13, 9-17.	0.2	2
151	Impact of Organic Amendment with Alternate Wetting and Drying Irrigation on Rice Yield, Water Use Efficiency and Physicochemical Properties of Soil. Agronomy, 2021, 11, 1529.	1.3	21
152	Effects of Silicon and Selenium in Alleviation of Drought Stress in Rice. Silicon, 2022, 14, 5453-5461.	1.8	19
153	Fascinating regulatory mechanism of silicon for alleviating drought stress in plants. Plant Physiology and Biochemistry, 2021, 166, 1044-1053.	2.8	36
154	Roles of canopy architecture and nitrogen distribution in the better performance of an aerobic than a lowland rice cultivar under water deficit. Field Crops Research, 2021, 271, 108257.	2.3	11
155	Growth chamber and field evaluation of physiological factors of two watermelon genotypes. Plant Stress, 2021, 2, 100017.	2.7	9
156	Drought Tolerance. , 2013, , 203-223.		1
157	Rice Breeding and Genomics Approaches for Improving Water and Nitrogen Use Efficiency. , 2020, , 339-372.		2
158	Fast photosynthesis measurements for phenotyping photosynthetic capacity of rice. Plant Methods, 2020, 16, 6.	1.9	12
159	Evaluation of water-saving rice status based on morphophysiological characteristics and water use efficiency. Biodiversitas, 2019, 20, .	0.2	2
160	On the Use of Leaf Spectral Indices to Assess Water Status and Photosynthetic Limitations in <i>Olea europaea</i> L. during Water-Stress and Recovery. PLoS ONE, 2014, 9, e105165.	1.1	51
161	Abscisic Acid Induces Rapid Reductions in Mesophyll Conductance to Carbon Dioxide. PLoS ONE, 2016, 11, e0148554.	1.1	44
162	Carbon isotope fractionation for cotton genotype selection. Pesquisa Agropecuaria Brasileira, 2014, 49, 673-682.	0.9	7

#	ARTICLE	IF	CITATIONS
163	SENSITIVITY OF PANICLE CHARACTERS OF RICE (ORYZA SATIVA L.) TO DROUGHT STRESS AND THEIR ASSOCIATION WITH GRAIN YIELD. Journal of Plant Production, 2015, 6, 1047-1062.	0.0	1
164	Effects of high temperature and early drainage on leaf CO <sub>2</sub> assimilation and grain yield in the rice cultivar Hinohikari. J Agricultural Meteorology, 2011, 67, 259-267.	0.8	6
165	Induction of Drought Stress Resistance in Sesame (Sesamum indicum L.) Plant by Salicylic Acid and Kinetin. Journal of Plant Sciences, 2015, 10, 128-141.	0.2	18
166	Effect of Various Intensities of Drought Stress on $\delta^{13}C$ Variation among Plant Organs in Rice: Comparison of Two Cultivars. American Journal of Plant Sciences, 2014, 05, 1686-1693.	0.3	10
167	Yield Traits and Water Productivity Responses among Rice Varieties (Oryza sativa L.) Grown in A Fadama Ecosystem in Akure, Southwestern Nigeria. American Journal of Experimental Agriculture, 2015, 5, 435-449.	0.2	0
168	Yield Response of Direct Seeded $\Delta$ Rice Varieties under Rainfed Condition. American Journal of Plant Sciences, 2018, 09, 416-434.	0.3	1
169	Plant-atmosphere and soil-atmosphere temperature differences and their impact on grain yield of super hybrid rice under different irrigation conditions. PLoS ONE, 2020, 15, e0243580.	1.1	1
170	The Effect of Exposure to a Combination of Stressors on Rice Productivity and Grain Yields. , 2020, , 675-727.		0
171	Carbon isotope discrimination studies in plants for abiotic stress. , 2022, , 493-537.		1
172	La inoculaci3n con hongos end3fitos entomopat3genos en semilla genera una respuesta fisiol3gica y promueve el crecimiento vegetal en plantas de chile poblano en invernadero. Nova Scientia, 2020, 12, .	0.0	1
173	Water stress resilient cereal crops: Lessons from wild relatives. Journal of Integrative Plant Biology, 2022, 64, 412-430.	4.1	25
174	Non-destructive Measurements of Toona sinensis Chlorophyll and Nitrogen Content Under Drought Stress Using Near Infrared Spectroscopy. Frontiers in Plant Science, 2021, 12, 809828.	1.7	8
175	Species-specific variation of photosynthesis and mesophyll conductance to ozone and drought in three Mediterranean oaks. Physiologia Plantarum, 2022, 174, e13639.	2.6	12
176	Wetting mechanism and morphological adaptation; leaf rolling enhancing atmospheric water acquisition in wheat crop—a review. Environmental Science and Pollution Research, 2022, 29, 30967-30985.	2.7	23
177	Interactive effect of elevated [CO <sub>2</sub> ] and temperature on the photosynthetic process, anti-oxidative properties, and grain yield of rice. Journal of Agronomy and Crop Science, 2022, 208, 384-393.	1.7	5
178	Photosynthesizing while hyperaccumulating nickel: Insights from the genus Odontarrhena (Brassicaceae). Plant Physiology and Biochemistry, 2022, 176, 9-20.	2.8	3
179	Proline and antioxidant enzymes protect Tabebuia aurea (Bignoniaceae) from transitory water deficiency. Rodriguesia, 0, 73, .	0.9	0
180	Scion Traits Related to Nutrient Distribution, Hormone Status, and Antioxidative Stress Tolerance Affect Rootstock Activity in Apple. SSRN Electronic Journal, 0, , .	0.4	0

#	ARTICLE	IF	CITATIONS
181	Overexpression of Arabidopsis nucleolar GTP-binding 1 (NOG1) proteins confers drought tolerance in rice. <i>Plant Physiology</i> , 2022, 189, 988-1004.	2.3	10
187	Dissecting the combined effects of cultivar, fertilization, and irrigation on rhizosphere bacterial communities and nitrogen productivity in rice. <i>Science of the Total Environment</i> , 2022, 835, 155534.	3.9	4
188	The Integrative Effects of Biochar and ZnO Nanoparticles for Enhancing Rice Productivity and Water Use Efficiency under Irrigation Deficit Conditions. <i>Plants</i> , 2022, 11, 1416.	1.6	27
189	Contrasting anatomical and biochemical controls on mesophyll conductance across plant functional types. <i>New Phytologist</i> , 2022, 236, 357-368.	3.5	8
190	Trends and research features on greenhouse gas emissions from rice production: review based on bibliometric analysis. <i>Environmental Science and Pollution Research</i> , 2022, 29, 73828-73841.	2.7	3
191	Chromosome 3A harbors several pleiotropic and stable drought-responsive alleles for photosynthetic efficiency selected through wheat breeding. <i>Plant Direct</i> , 2022, 6, .	0.8	5
192	Neglecting acclimation of photosynthesis under drought can cause significant errors in predicting leaf photosynthesis in wheat. <i>Global Change Biology</i> , 2023, 29, 505-521.	4.2	5
193	Foliar Application of Silicon Improved Physiological Indicators, Yield Attributes, and Yield of Pearl Millet ( <i>Pennisetum glaucum</i> L.) Under Terminal Drought Stress. <i>Journal of Soil Science and Plant Nutrition</i> , 2022, 22, 4458-4472.	1.7	4
194	Alternate wetting and drying modulated physio-biochemical attributes, grain yield, quality, and aroma volatile in fragrant rice. <i>Physiologia Plantarum</i> , 2022, 174, .	2.6	8
195	Phytoremediation potential of <i>Solanum viarum</i> Dunal and functional aspects of their capitata glandular trichomes in lead, cadmium, and zinc detoxification. <i>Environmental Science and Pollution Research</i> , 2023, 30, 41878-41899.	2.7	4
196	Identification of plants releasing isoprene causing smog. <i>MOJ Ecology &amp; Environmental Sciences</i> , 2022, 7, 40-46.	0.1	0
197	Higher Intercellular CO <sub>2</sub> Concentration is Associated with Improved Water Use Efficiency and Drought Tolerance in Bread Wheat. <i>Gesunde Pflanzen</i> , 2023, 75, 1679-1687.	1.7	1
198	Physiological and yield responses of contrasting upland rice genotypes towards induced drought. <i>Physiology and Molecular Biology of Plants</i> , 2023, 29, 305-317.	1.4	0
199	Water use, energy use efficiency and carbon footprint of transplanted rice ( <i>Oryza sativa</i> ) in response to surface drainage. , 2018, 88, 540-545.		2
200	OsWR2 recruits HDA704 to regulate the deacetylation of H4K8ac in the promoter of <i>OsABI5</i> in response to drought stress. <i>Journal of Integrative Plant Biology</i> , 2023, 65, 1651-1669.	4.1	1