

Toshihiro Hasegawa

List of Publications by Citations

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168
papers

5,011
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h-index

65
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174
ext. papers

5,915
ext. citations

4.5
avg, IF

5.25
L-index

#	Paper	IF	Citations
168	Increasing CO ₂ threatens human nutrition. <i>Nature</i> , 2014 , 510, 139-42	50.4	762
167	Soil organic carbon stocks in China and changes from 1980s to 2000s. <i>Global Change Biology</i> , 2007 , 13, 1989-2007	11.4	262
166	Uncertainties in predicting rice yield by current crop models under a wide range of climatic conditions. <i>Global Change Biology</i> , 2015 , 21, 1328-41	11.4	260
165	Rice cultivar responses to elevated CO ₂ at two free-air CO ₂ enrichment (FACE) sites in Japan. <i>Functional Plant Biology</i> , 2013 , 40, 148-159	2.7	174
164	Interactions of elevated [CO ₂] and night temperature on rice growth and yield. <i>Agricultural and Forest Meteorology</i> , 2009 , 149, 51-58	5.8	140
163	Rice morphogenesis and plant architecture: measurement, specification and the reconstruction of structural development by 3D architectural modelling. <i>Annals of Botany</i> , 2005 , 95, 1131-43	4.1	121
162	Revising a process-based biogeochemistry model (DNDC) to simulate methane emission from rice paddy fields under various residue management and fertilizer regimes. <i>Global Change Biology</i> , 2008 , 14, 382-402	11.4	113
161	Response of growth and grain yield in paddy rice to cool water at different growth stages. <i>Field Crops Research</i> , 2002 , 73, 67-79	5.5	96
160	Genotypic variation in rice yield enhancement by elevated CO ₂ relates to growth before heading, and not to maturity group. <i>Journal of Experimental Botany</i> , 2009 , 60, 523-32	7	95
159	Methane and soil CO ₂ production from current-season photosynthates in a rice paddy exposed to elevated CO ₂ concentration and soil temperature. <i>Global Change Biology</i> , 2011 , 17, 3327-3337	11.4	80
158	Effects of free-air CO ₂ enrichment (FACE) and soil warming on CH ₄ emission from a rice paddy field: impact assessment and stoichiometric evaluation. <i>Biogeosciences</i> , 2010 , 7, 2639-2653	4.6	77
157	Combined effects of elevated [CO ₂] and high night temperature on carbon assimilation, nitrogen absorption, and the allocations of C and N by rice (<i>Oryza sativa</i> L.). <i>Agricultural and Forest Meteorology</i> , 2010 , 150, 1174-1181	5.8	74
156	Enhancement of rice canopy carbon gain by elevated CO ₂ is sensitive to growth stage and leaf nitrogen concentration. <i>New Phytologist</i> , 2006 , 170, 321-32	9.8	71
155	Heat-Induced Floret Sterility of Hybrid Rice (<i>Oryza sativa</i> L.) Cultivars under Humid and Low Wind Conditions in the Field of Jiangnan Basin, China. <i>Plant Production Science</i> , 2010 , 13, 243-251	2.4	66
154	Stability of Rice Pollination in The Field Under Hot And Dry Conditions in The Riverina Region of New South Wales, Australia. <i>Plant Production Science</i> , 2007 , 10, 57-63	2.4	64
153	Rice grain yield and quality responses to free-air CO ₂ enrichment combined with soil and water warming. <i>Global Change Biology</i> , 2016 , 22, 1256-70	11.4	56
152	The temporal and species dynamics of photosynthetic acclimation in flag leaves of rice (<i>Oryza sativa</i>) and wheat (<i>Triticum aestivum</i>) under elevated carbon dioxide. <i>Physiologia Plantarum</i> , 2012 , 145, 395-405	4.6	52

151	Response of Spikelet Number to Plant Nitrogen Concentration and Dry Weight in Paddy Rice. <i>Agronomy Journal</i> , 1994 , 86, 673-676	2.2	51
150	Impacts of elevated atmospheric CO ₂ on nutrient content of important food crops. <i>Scientific Data</i> , 2015 , 2, 150036	8.2	50
149	Toward integration of genomic selection with crop modelling: the development of an integrated approach to predicting rice heading dates. <i>Theoretical and Applied Genetics</i> , 2016 , 129, 805-817	6	48
148	Integrated micrometeorology model for panicle and canopy temperature (IM2PACT) for rice heat stress studies under climate change. <i>J Agricultural Meteorology</i> , 2011 , 67, 233-247	1.1	47
147	Gene expression profiling of rice grown in free air CO ₂ enrichment (FACE) and elevated soil temperature. <i>Field Crops Research</i> , 2011 , 121, 195-199	5.5	47
146	Seasonal changes in temperature dependence of photosynthetic rate in rice under a free-air CO ₂ enrichment. <i>Annals of Botany</i> , 2006 , 97, 549-57	4.1	47
145	A meta-analysis of leaf nitrogen distribution within plant canopies. <i>Annals of Botany</i> , 2016 , 118, 239-47	4.1	45
144	Responses of leaf photosynthesis and plant water status in rice to low water temperature at different growth stages. <i>Field Crops Research</i> , 2004 , 89, 71-83	5.5	45
143	Modeling Spikelet Sterility Induced by Low Temperature in Rice. <i>Agronomy Journal</i> , 2005 , 97, 1524-1536	2.2	45
142	Spikelet sterility of rice observed in the record hot summer of 2007 and the factors associated with its variation. <i>J Agricultural Meteorology</i> , 2011 , 67, 225-232	1.1	42
141	Rice yield enhancement by elevated CO ₂ is reduced in cool weather. <i>Global Change Biology</i> , 2008 , 14, 276-284	11.4	42
140	Heat-tolerant rice cultivars retain grain appearance quality under free-air CO ₂ enrichment. <i>Rice</i> , 2014 , 7, 6	5.8	41
139	CH ₄ emission with differences in atmospheric CO ₂ enrichment and rice cultivars in a Japanese paddy soil. <i>Global Change Biology</i> , 2008 , 14, 2678-2687	11.4	41
138	Performance of the enlarged Rice-FACE system using pure CO ₂ installed in Tsukuba, Japan. <i>J Agricultural Meteorology</i> , 2012 , 68, 15-23	1.1	41
137	Do the rich always become richer? Characterizing the leaf physiological response of the high-yielding rice cultivar Takanari to free-air CO ₂ enrichment. <i>Plant and Cell Physiology</i> , 2014 , 55, 381-9	1.9	40
136	The effects of free-air CO ₂ enrichment (FACE) on carbon and nitrogen accumulation in grains of rice (<i>Oryza sativa</i> L.). <i>Journal of Experimental Botany</i> , 2013 , 64, 3179-88	7	37
135	Rice plant response to long term CO ₂ enrichment: Gene expression profiling. <i>Plant Science</i> , 2009 , 177, 203-210	5.3	37
134	Diurnal and seasonal variations in stomatal conductance of rice at elevated atmospheric CO ₂ under fully open-air conditions. <i>Plant, Cell and Environment</i> , 2010 , 33, 322-31	8.4	36

133	Quantitative trait loci for large sink capacity enhance rice grain yield under free-air CO ₂ enrichment conditions. <i>Scientific Reports</i> , 2017 , 7, 1827	4.9	35
132	Effects of elevated carbon dioxide, elevated temperature, and rice growth stage on the community structure of rice root-associated bacteria. <i>Microbes and Environments</i> , 2014 , 29, 184-90	2.6	35
131	Increased night temperature reduces the stimulatory effect of elevated carbon dioxide concentration on methane emission from rice paddy soil. <i>Global Change Biology</i> , 2008 , 14, 644-656	11.4	35
130	Combined drought and heat stress impact during flowering and grain filling in contrasting rice cultivars grown under field conditions. <i>Field Crops Research</i> , 2018 , 229, 66-77	5.5	35
129	An empirical model of soil chemical properties that regulate methane production in Japanese rice paddy soils. <i>Journal of Environmental Quality</i> , 2007 , 36, 1920-5	3.4	33
128	Increasing canopy photosynthesis in rice can be achieved without a large increase in water use-A model based on free-air CO ₂ enrichment. <i>Global Change Biology</i> , 2018 , 24, 1321-1341	11.4	33
127	Response of soil, leaf endosphere and phyllosphere bacterial communities to elevated CO ₂ and soil temperature in a rice paddy. <i>Plant and Soil</i> , 2015 , 392, 27-44	4.2	32
126	The contribution of entrapped gas bubbles to the soil methane pool and their role in methane emission from rice paddy soil in free-air [CO ₂] enrichment and soil warming experiments. <i>Plant and Soil</i> , 2013 , 364, 131-143	4.2	32
125	Canopy-scale relationships between stomatal conductance and photosynthesis in irrigated rice. <i>Global Change Biology</i> , 2013 , 19, 2209-20	11.4	32
124	A model driven by crop water use and nitrogen supply for simulating changes in the regional yield of rain-fed lowland rice in Northeast Thailand. <i>Paddy and Water Environment</i> , 2008 , 6, 73-82	1.6	32
123	MeteoCrop DB: an agro-meteorological database coupled with crop models for studying climate change impacts on rice in Japan. <i>J Agricultural Meteorology</i> , 2011 , 67, 297-306	1.1	32
122	Differential response of rice plants to high night temperatures imposed at varying developmental phases. <i>Agricultural and Forest Meteorology</i> , 2015 , 209-210, 69-77	5.8	31
121	Soil and water warming accelerates phenology and down-regulation of leaf photosynthesis of rice plants grown under free-air CO ₂ enrichment (FACE). <i>Plant and Cell Physiology</i> , 2014 , 55, 370-80	4.9	31
120	Effects of Temperature, Solar Radiation, and Vapor-Pressure Deficit on Flower Opening Time in Rice. <i>Plant Production Science</i> , 2010 , 13, 21-28	2.4	31
119	Response of the floating aquatic fern <i>Azolla filiculoides</i> to elevated CO ₂ , temperature, and phosphorus levels. <i>Hydrobiologia</i> , 2010 , 656, 5-14	2.4	31
118	Modeling the dependence of the crop calendar for rain-fed rice on precipitation in Northeast Thailand. <i>Paddy and Water Environment</i> , 2008 , 6, 83-90	1.6	30
117	Grain growth of different rice cultivars under elevated CO ₂ concentrations affects yield and quality. <i>Field Crops Research</i> , 2015 , 179, 72-80	5.5	29
116	Isotopomer analysis of production, consumption and soil-to-atmosphere emission processes of N ₂ O at the beginning of paddy field irrigation. <i>Soil Biology and Biochemistry</i> , 2014 , 70, 66-78	7.5	29

115	Causes of variation among rice models in yield response to CO examined with Free-Air CO Enrichment and growth chamber experiments. <i>Scientific Reports</i> , 2017 , 7, 14858	4.9	29
114	Effect of elevated atmospheric CO ₂ concentration on soil and root respiration in winter wheat by using a respiration partitioning chamber. <i>Plant and Soil</i> , 2007 , 299, 237-249	4.2	27
113	Elevated atmospheric CO ₂ levels affect community structure of rice root-associated bacteria. <i>Frontiers in Microbiology</i> , 2015 , 6, 136	5.7	26
112	Lodging in rice can be alleviated by atmospheric CO ₂ enrichment. <i>Agriculture, Ecosystems and Environment</i> , 2007 , 118, 223-230	5.7	26
111	Changes in grain protein and amino acids composition of wheat and rice under short-term increased [CO ₂] and temperature of canopy air in a paddy from East China. <i>New Phytologist</i> , 2019 , 222, 726-734	9.8	26
110	A statistical analysis of three ensembles of crop model responses to temperature and CO ₂ concentration. <i>Agricultural and Forest Meteorology</i> , 2015 , 214-215, 483-493	5.8	25
109	Lower responsiveness of canopy evapotranspiration rate than of leaf stomatal conductance to open-air CO ₂ elevation in rice. <i>Global Change Biology</i> , 2013 , 19, 2444-53	11.4	22
108	Genetic improvements for high yield and low soil nitrogen tolerance in rice (<i>Oryza Sativa</i> L.) under a cold environment. <i>Field Crops Research</i> , 2010 , 116, 38-45	5.5	22
107	Lower-Than-Expected Floret Sterility of Rice under Extremely Hot Conditions in a Flood-Irrigated Field in New South Wales, Australia. <i>Plant Production Science</i> , 2014 , 17, 245-252	2.4	21
106	Modeling the Effects of Water Temperature on Rice Growth and Yield under a Cool Climate: II. Model Application. <i>Agronomy Journal</i> , 2007 , 99, 1338-1344	2.2	21
105	Modeling the Effects of Water Temperature on Rice Growth and Yield under a Cool Climate: I. Model Development. <i>Agronomy Journal</i> , 2007 , 99, 1327-1337	2.2	21
104	Genotypic difference in root penetration ability by durum wheat (<i>Triticum turgidum</i> L. var. durum) evaluated by a pot with paraffin-Vaseline discs. <i>Plant and Soil</i> , 2004 , 262, 169-177	4.2	21
103	Leaf nitrogen, plant age and crop dry matter production in rice. <i>Field Crops Research</i> , 1996 , 47, 107-116	5.5	21
102	Quantifying rice spikelet sterility in potential heat-vulnerable regions: Field surveys in Laos and southern India. <i>Field Crops Research</i> , 2016 , 190, 3-9	5.5	20
101	A High-Yielding Rice Cultivar "Takanari" Shows No N Constraints on CO ₂ Fertilization. <i>Frontiers in Plant Science</i> , 2019 , 10, 361	6.2	20
100	Effect of panicle removal on photosynthetic acclimation under elevated CO ₂ in rice. <i>Photosynthetica</i> , 2010 , 48, 530-536	2.2	20
99	Varietal Range in Transpiration Conductance of Flowering Rice Panicle and Its Impact on Panicle Temperature. <i>Plant Production Science</i> , 2012 , 15, 258-264	2.4	19
98	Stage-dependent temperature sensitivity function predicts seed-setting rates under short-term extreme heat stress in rice. <i>Agricultural and Forest Meteorology</i> , 2018 , 256-257, 196-206	5.8	18

97	Microbial biomass carbon and methane oxidation influenced by rice cultivars and elevated CO ₂ in a Japanese paddy soil. <i>European Journal of Soil Science</i> , 2011 , 62, 69-73	3.4	18
96	Large-scale evaluation of the effects of adaptation to climate change by shifting transplanting date on rice production and quality in Japan. <i>J Agricultural Meteorology</i> , 2017 , 73, 156-173	1.1	18
95	Yield responses to elevated CO ₂ concentration among Japanese rice cultivars released since 1882. <i>Plant Production Science</i> , 2019 , 22, 352-366	2.4	17
94	Characterization of leaf blade- and leaf sheath-associated bacterial communities and assessment of their responses to environmental changes in CO ₂ temperature, and nitrogen levels under field conditions. <i>Microbes and Environments</i> , 2015 , 30, 51-62	2.6	17
93	A methodology for estimating phenological parameters of rice cultivars utilizing data from common variety trials. <i>J Agricultural Meteorology</i> , 2015 , 71, 77-89	1.1	17
92	Growth and yield of potato plants grown from microtubers in fields. <i>American Journal of Potato Research</i> , 2003 , 80, 371-378	2.1	17
91	Modelling the effect of nitrogen on rice growth and development. <i>Systems Approaches for Sustainable Agricultural Development</i> , 1997 , 243-257		17
90	Effect of Elevated CO ₂ Concentration, Elevated Temperature and No Nitrogen Fertilization on Methanogenic Archaeal and Methane-Oxidizing Bacterial Community Structures in Paddy Soil. <i>Microbes and Environments</i> , 2016 , 31, 349-56	2.6	16
89	Elevated temperature has stronger effects on the soil food web of a flooded paddy than does CO ₂ . <i>Soil Biology and Biochemistry</i> , 2014 , 70, 166-175	7.5	16
88	Vulnerability of lodging risk to elevated CO ₂ and increased soil temperature differs between rice cultivars. <i>European Journal of Agronomy</i> , 2013 , 46, 20-24	5	16
87	Microbial community composition controls the effects of climate change on methane emission from rice paddies. <i>Environmental Microbiology Reports</i> , 2012 , 4, 648-54	3.7	16
86	A taxonomy-based approach to shed light on the babel of mathematical models for rice simulation. <i>Environmental Modelling and Software</i> , 2016 , 85, 332-341	5.2	15
85	Rice Free-Air Carbon Dioxide Enrichment Studies to Improve Assessment of Climate Change Effects on Rice Agriculture. <i>Advances in Agricultural Systems Modeling</i> , 2016 , 45-68	0.3	15
84	Nitrogen Uptake by Rice (<i>Oryza sativa</i> L.) Exposed to Low Water Temperatures at Different Growth Stages. <i>Journal of Agronomy and Crop Science</i> , 2012 , 198, 145-151	3.9	14
83	Nitrogen Distribution in Leaf Canopies of High-Yielding Rice Cultivar Takanari. <i>Crop Science</i> , 2017 , 57, 2080-2088	2.4	14
82	Traits responsible for variation in pollination and seed set among six rice cultivars grown in a miniature paddy field with free air at a hot, humid spot in China. <i>Agriculture, Ecosystems and Environment</i> , 2010 , 139, 110-115	5.7	14
81	Spatial characterization of recent hot summers in Japan with agro-climatic indices related to rice production. <i>J Agricultural Meteorology</i> , 2011 , 67, 209-224	1.1	14
80	MINCER: A novel instrument for monitoring the micrometeorology of rice canopies. <i>J Agricultural Meteorology</i> , 2012 , 68, 135-147	1.1	14

79	Adaptation of rice to climate change through a cultivar-based simulation: a possible cultivar shift in eastern Japan. <i>Climate Research</i> , 2015 , 64, 275-290	1.6	14
78	Phosphorus Solubilizing Microorganisms in the Rhizosphere of Local Rice Varieties Grown without Fertilizer on Acid Sulfate Soils. <i>Soil Science and Plant Nutrition</i> , 2005 , 51, 679-681	1.6	13
77	Fully automated, high-throughput instrumentation for measuring the $\delta^{13}\text{C}$ value of methane and application of the instrumentation to rice paddy samples. <i>Rapid Communications in Mass Spectrometry</i> , 2014 , 28, 2315-24	2.2	12
76	Planting geometry as a pre-screening technique for identifying CO ₂ responsive rice genotypes: a case study of panicle number. <i>Physiologia Plantarum</i> , 2014 , 152, 520-8	4.6	12
75	MINCERnet: A global research alliance to support the fight against heat stress in rice. <i>J Agricultural Meteorology</i> , 2012 , 68, 149-157	1.1	12
74	Varietal Difference in the Occurrence of Milky White Kernels in Response to Assimilate Supply in Rice Plants (<i>Oryza sativa</i> L.). <i>Plant Production Science</i> , 2011 , 14, 111-117	2.4	12
73	Paddy Rice Responses to Free-Air [CO ₂] Enrichment 2006 , 87-104		12
72	Effects of elevated [CO ₂] on stem and root lodging among rice cultivars. <i>Science Bulletin</i> , 2013 , 58, 1787-1794		11
71	High mesophyll conductance in the high-yielding rice cultivar Takanari quantified with the combined gas exchange and chlorophyll fluorescence measurements under free-air CO ₂ enrichment. <i>Plant Production Science</i> , 2019 , 22, 395-406	2.4	10
70	Effect of Elevated [CO ₂] on Soil Bubble and CH ₄ Emission from a Rice Paddy: A Test by ¹³ C Pulse-Labeling under Free-Air CO ₂ Enrichment. <i>Geomicrobiology Journal</i> , 2008 , 25, 396-403	2.5	10
69	Characteristics of water balance in a rainfed paddy field in Northeast Thailand. <i>Paddy and Water Environment</i> , 2008 , 6, 153-157	1.6	10
68	Temperature Difference between Meteorological Station and Nearby Farmland Case Study for Kumagaya City in Japan. <i>Scientific Online Letters on the Atmosphere</i> , 2014 , 10, 45-49	2.1	10
67	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
66	Predicting biomass of rice with intermediate traits: Modeling method combining crop growth models and genomic prediction models. <i>PLoS ONE</i> , 2020 , 15, e0233951	3.7	9
65	Application of a process-based biogeochemistry model, DNDC-Rice, to a rice field under free-air CO ₂ enrichment (FACE). <i>J Agricultural Meteorology</i> , 2013 , 69, 173-190	1.1	9
64	A Simplified Model for Estimating Nitrogen Mineralization in Paddy Soil.. <i>Japanese Journal of Crop Science</i> , 1994 , 63, 496-501	0.1	9
63	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
62	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

61	CH ₄ production potential in a paddy soil exposed to atmospheric CO ₂ enrichment. <i>Soil Science and Plant Nutrition</i> , 2006 , 52, 769-773	1.6	8
60	Neutral rhizoplane pH of local rice and some predominant tree species in South and Central Kalimantan: A possible strategy of plant adaptation to acidic-soil. <i>Tropics</i> , 2005 , 14, 139-147	0.9	8
59	Effect of long anther dehiscence on seed set at high temperatures during flowering in rice (<i>Oryza sativa</i> L.). <i>Scientific Reports</i> , 2019 , 9, 20363	4.9	8
58	Emerging research topics in agricultural meteorology and assessment of climate change adaptation. <i>J Agricultural Meteorology</i> , 2018 , 74, 54-59	1.1	8
57	QTL mapping of dehiscence length at the basal part of thecae related to heat tolerance of rice (<i>Oryza sativa</i> L.). <i>Euphytica</i> , 2016 , 209, 715-723	2.1	7
56	Amelioration of the reactive nitrogen flux calculation by a day/night separation in weekly mean air concentration measurements. <i>Atmospheric Environment</i> , 2013 , 79, 462-471	5.3	7
55	Potential ammonia emission from flag leaves of paddy rice (<i>Oryza sativa</i> L. cv. Koshihikari). <i>Agriculture, Ecosystems and Environment</i> , 2011 , 144, 117-123	5.7	7
54	Expected changes in future agro-climatological conditions in Northeast Thailand and their differences between general circulation models. <i>Theoretical and Applied Climatology</i> , 2011 , 106, 383-403		7
53	Comparison of Rice Yield after Various Years of Cultivation by Natural Farming. <i>Plant Production Science</i> , 1999 , 2, 58-64	2.4	7
52	Current rice models underestimate yield losses from short-term heat stresses. <i>Global Change Biology</i> , 2021 , 27, 402-416	11.4	7
51	Inheritance analysis of anther dehiscence as a trait for the heat tolerance at flowering in japonica hybrid rice (<i>Oryza sativa</i> L.). <i>Euphytica</i> , 2016 , 211, 311-320	2.1	6
50	Free-air CO ₂ enrichment (FACE) net nitrogen fixation experiment at a paddy soil surface under submerged conditions. <i>Nutrient Cycling in Agroecosystems</i> , 2014 , 98, 57-69	3.3	6
49	Design of sphingomonad-detecting probes for a DNA array, and its application to investigate the behavior, distribution, and source of Rhizospherous sphingomonas and other sphingomonads inhabiting an acid sulfate soil paddock in Kalimantan, Indonesia. <i>Bioscience, Biotechnology and Biochemistry</i> , 2007 , 71, 343-51	2.1	6
48	Frequent isolation of sphingomonads from local rice varieties and other weeds grown on acid sulfate soil in South Kalimantan, Indonesia. <i>Tropics</i> , 2006 , 15, 391-395	0.9	6
47	Analysis of factors related to varietal differences in the yield of rice (<i>Oryza sativa</i> L.) under Free-Air CO ₂ Enrichment (FACE) conditions. <i>Plant Production Science</i> , 2020 , 23, 19-27	2.4	6
46	Effects of nitrogen input and climate trends on provincial rice yields in China between 1961 and 2003: quantitative evaluation using a crop model. <i>Paddy and Water Environment</i> , 2015 , 13, 529-543	1.6	5
45	The lowland paddy weed <i>Monochoria vaginalis</i> emits N ₂ O but not CH ₄ . <i>Agriculture, Ecosystems and Environment</i> , 2010 , 137, 219-221	5.7	5
44	Improvement of yielding ability in Japonica rice cultivars and its impact on regional yield increase in Kinki District, Japan. <i>Agricultural Systems</i> , 1991 , 35, 173-187	6.1	5

43	Effects of free-air CO ₂ enrichment on flower opening time in rice. <i>Plant Production Science</i> , 2019 , 22, 367-373	2.4	5
42	Five-year soil warming changes soil C and N dynamics in a single rice paddy field in Japan. <i>Science of the Total Environment</i> , 2021 , 756, 143845	10.2	5
41	Nitrogen resorption in senescing leaf blades of rice exposed to free-air CO ₂ enrichment (FACE) under different N fertilization levels. <i>Plant and Soil</i> , 2017 , 418, 231-240	4.2	4
40	Dependence of pollination and fertilization in rice (<i>Oryza sativa</i> L.) on floret height within the canopy. <i>Field Crops Research</i> , 2020 , 249, 107741	5.5	4
39	Taking account of water temperature effects on phenology improves the estimation of rice heading dates: Evidence from 758 field observations across Japan. <i>J Agricultural Meteorology</i> , 2017 , 73, 84-91	1.1	4
38	Responses of Eighteen Rice (<i>Oryza sativa</i> L.) Cultivars to Temperature Tested Using Two Types of Growth Chambers. <i>Plant Production Science</i> , 2013 , 16, 217-225	2.4	4
37	Rice Leaf Photosynthesis as a Function of Nitrogen Content and Crop Developmental Stage.. <i>Japanese Journal of Crop Science</i> , 1996 , 65, 553-554	0.1	4
36	Estimation of water saturated areas in Northeast Thailand using a large-scale water balance model. <i>J Agricultural Meteorology</i> , 2010 , 66, 91-101	1.1	4
35	Effects of free-air CO ₂ enrichment (FACE) and soil warming on CH ₄ emission from a rice paddy field: impact assessment and stoichiometric evaluation ⁴		4
34	Evaluation of crop model prediction and uncertainty using Bayesian parameter estimation and Bayesian model averaging. <i>Agricultural and Forest Meteorology</i> , 2021 , 311, 108686	5.8	4
33	Evaluation of the most appropriate spatial resolution of input data for assessing the impact of climate change on rice productivity in Japan. <i>J Agricultural Meteorology</i> , 2020 , 76, 61-68	1.1	4
32	Effects of free-air CO ₂ enrichment on heat-induced sterility and pollination in rice. <i>Plant Production Science</i> , 2019 , 22, 374-381	2.4	3
31	Quantifying the Feedback Between Rice Architecture, Physiology, and Microclimate Under Current and Future CO ₂ Conditions. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2020 , 125, e2019JG005452 ^{3.7}		3
30	Genetic Adjustment to Changing Climates: Rice 2011 , 298-313		3
29	Difference between Canopy Temperature and Air Temperature as a Criterion for Drought Avoidance in Crop Genotypes under Field Conditions in Japan. <i>Japanese Journal of Crop Science</i> , 2003 , 72, 461-470	0.1	3
28	Stability of Phenotypic Variation of Root Length over Environmental Conditions in the Seedling Generation of Potato.. <i>Japanese Journal of Crop Science</i> , 2000 , 69, 332-336	0.1	3
27	Structure and Function of Rice Root System under FACE Condition. <i>J Agricultural Meteorology</i> , 2005 , 60, 961-964	1.1	3
26	Is the yield change due to warming affected by photoperiod sensitivity? Effects of the soybean E4 locus. <i>Food and Energy Security</i> , 2020 , 9, e186	4.1	3

25	Atmospheric CO Concentration and N Availability Affect the Balance of the Two Photosystems in Mature Leaves of Rice Plants Grown at a Free-Air CO Enrichment Site. <i>Frontiers in Plant Science</i> , 2020 , 11, 786	6.2	2
24	Changes in Vertical Distribution of Leaf Nitrogen with the Growth Stage and the Influence on Dry Matter Production in Rice. <i>Plant Production Science</i> , 1999 , 2, 37-46	2.4	2
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