

Toshihiro Hasegawa

List of Publications by Year in descending order

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Version: 2024-02-01

168
papers

6,651
citations

71061

41
h-index

76872

74
g-index

174
all docs

174
docs citations

174
times ranked

5978
citing authors

#	ARTICLE	IF	CITATIONS
1	Increasing CO ₂ threatens human nutrition. <i>Nature</i> , 2014, 510, 139-142.	13.7	1,024
2	Uncertainties in predicting rice yield by current crop models under a wide range of climatic conditions. <i>Global Change Biology</i> , 2015, 21, 1328-1341.	4.2	339
3	Soil organic carbon stocks in China and changes from 1980s to 2000s. <i>Global Change Biology</i> , 2007, 13, 1989-2007.	4.2	324
4	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.	1.1	213
5	Interactions of elevated [CO ₂] and night temperature on rice growth and yield. <i>Agricultural and Forest Meteorology</i> , 2009, 149, 51-58.	1.9	179
6	Rice Morphogenesis and Plant Architecture: Measurement, Specification and the Reconstruction of Structural Development by 3D Architectural Modelling. <i>Annals of Botany</i> , 2005, 95, 1131-1143.	1.4	150
7	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.	4.2	131
8	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.	2.3	120
9	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.	4.2	113
10	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, 523-532.	2.4	108
11	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.	1.3	97
12	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.	1.9	91
13	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, 1256-1270.	4.2	86
14	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.	0.9	80
15	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, 321-332.	3.5	79
16	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.	0.9	79
17	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.	1.8	72
18	Impacts of elevated atmospheric CO ₂ on nutrient content of important food crops. <i>Scientific Data</i> , 2015, 2, 150036.	2.4	66

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19	A meta-analysis of leaf nitrogen distribution within plant canopies. <i>Annals of Botany</i> , 2016, 118, 239-247.	1.4	66
20	Response of Spikelet Number to Plant Nitrogen Concentration and Dry Weight in Paddy Rice. <i>Agronomy Journal</i> , 1994, 86, 673-676.	0.9	62
21	The temporal and species dynamics of photosynthetic acclimation in flag leaves of rice (<i>Oryza</i>) Tj ETQq1 1 0.784314 rgBT /Overlo Plantarum, 2012, 145, 395-405.	2.6	62
22	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.	2.3	61
23	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.	3.5	61
24	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.	0.8	59
25	Seasonal Changes in Temperature Dependence of Photosynthetic Rate in Rice Under a Free-air CO ₂ Enrichment. <i>Annals of Botany</i> , 2006, 97, 549-557.	1.4	58
26	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.	1.8	58
27	Modeling Spikelet Sterility Induced by Low Temperature in Rice. <i>Agronomy Journal</i> , 2005, 97, 1524-1536.	0.9	57
28	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, 381-391.	1.5	57
29	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.	2.3	56
30	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.	2.3	55
31	Rice yield enhancement by elevated CO ₂ is reduced in cool weather. <i>Global Change Biology</i> , 2008, 14, 276-284.	4.2	52
32	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.	4.2	51
33	Effects of Temperature, Solar Radiation, and Vapor-Pressure Deficit on Flower Opening Time in Rice. <i>Plant Production Science</i> , 2010, 13, 21-28.	0.9	50
34	Heat-tolerant rice cultivars retain grain appearance quality under free-air CO ₂ enrichment. <i>Rice</i> , 2014, 7, 6.	1.7	50
35	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, 3179-3188.	2.4	49
36	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.	0.8	47

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37	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.	4.2	47
38	Performance of the enlarged Rice-FACE system using pure CO ₂ installed in Tsukuba, Japan. <i>J Agricultural Meteorology</i> , 2012, 68, 15-23.	0.8	47
39	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.	4.2	45
40	Grain growth of different rice cultivars under elevated CO ₂ concentrations affects yield and quality. <i>Field Crops Research</i> , 2015, 179, 72-80.	2.3	45
41	Canopy-scale relationships between stomatal conductance and photosynthesis in irrigated rice. <i>Global Change Biology</i> , 2013, 19, 2209-2220.	4.2	43
42	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.	1.6	43
43	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.	1.0	42
44	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.	4.2	42
45	Rice plant response to long term CO ₂ enrichment: Gene expression profiling. <i>Plant Science</i> , 2009, 177, 203-210.	1.7	41
46	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, 370-380.	1.5	41
47	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, 184-190.	0.7	41
48	Causes of variation among rice models in yield response to CO ₂ examined with Free-Air CO ₂ Enrichment and growth chamber experiments. <i>Scientific Reports</i> , 2017, 7, 14858.	1.6	41
49	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, 322-331.	2.8	40
50	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.	1.0	39
51	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.	1.8	39
52	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.	1.9	38
53	Elevated atmospheric CO ₂ levels affect community structure of rice root-associated bacteria. <i>Frontiers in Microbiology</i> , 2015, 6, 136.	1.5	38
54	An Empirical Model of Soil Chemical Properties that Regulate Methane Production in Japanese Rice Paddy Soils. <i>Journal of Environmental Quality</i> , 2007, 36, 1920-1925.	1.0	37

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55	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.	2.3	36
56	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.	0.8	36
57	A global dataset for the projected impacts of climate change on four major crops. <i>Scientific Data</i> , 2022, 9, 58.	2.4	36
58	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.	1.8	34
59	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.	1.0	34
60	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.	1.9	32
61	Lodging in rice can be alleviated by atmospheric CO ₂ enrichment. <i>Agriculture, Ecosystems and Environment</i> , 2007, 118, 223-230.	2.5	31
62	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, 2444-2453.	4.2	31
63	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.	1.9	31
64	A High-Yielding Rice Cultivar 'Takanari' Shows No N Constraints on CO ₂ Fertilization. <i>Frontiers in Plant Science</i> , 2019, 10, 361.	1.7	31
65	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.	2.3	30
66	Yield responses to elevated CO ₂ concentration among Japanese rice cultivars released since 1882. <i>Plant Production Science</i> , 2019, 22, 352-366.	0.9	30
67	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.	0.9	28
68	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.	0.9	26
69	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.	0.8	25
70	Leaf nitrogen, plant age and crop dry matter production in rice. <i>Field Crops Research</i> , 1996, 47, 107-116.	2.3	24
71	Varietal Range in Transpiration Conductance of Flowering Rice Panicle and Its Impact on Panicle Temperature. <i>Plant Production Science</i> , 2012, 15, 258-264.	0.9	24
72	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.	0.7	24

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73	Current rice models underestimate yield losses from short-term heat stresses. <i>Global Change Biology</i> , 2021, 27, 402-416.	4.2	24
74	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.	0.9	23
75	Effect of panicle removal on photosynthetic acclimation under elevated CO ₂ in rice. <i>Photosynthetica</i> , 2010, 48, 530-536.	0.9	23
76	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, 349-356.	0.7	23
77	Microbial community composition controls the effects of climate change on methane emission from rice paddies. <i>Environmental Microbiology Reports</i> , 2012, 4, 648-654.	1.0	22
78	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.	1.7	22
79	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.	1.9	22
80	A methodology for estimating phenological parameters of rice cultivars utilizing data from common variety trials. <i>J Agricultural Meteorology</i> , 2015, 71, 77-89.	0.8	22
81	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	22
82	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.	1.8	21
83	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.	1.8	21
84	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.	0.8	20
85	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.	4.2	20
86	Growth and yield of potato plants grown from microtubers in fields. <i>American Journal of Potato Research</i> , 2003, 80, 371-378.	0.5	19
87	Modelling the effect of nitrogen on rice growth and development. <i>Systems Approaches for Sustainable Agricultural Development</i> , 1997, , 243-257.	0.2	19
88	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.	1.9	18
89	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.	0.8	18
90	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.	0.4	18

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91	MINCER: A novel instrument for monitoring the micrometeorology of rice canopies. <i>J Agricultural Meteorology</i> , 2012, 68, 135-147.	0.8	17
92	Effects of elevated [CO ₂] on stem and root lodging among rice cultivars. <i>Science Bulletin</i> , 2013, 58, 1787-1794.	1.7	16
93	Fully automated, high-throughput instrumentation for measuring the $\delta^{13}C$ value of methane and application of the instrumentation to rice paddy samples. <i>Rapid Communications in Mass Spectrometry</i> , 2014, 28, 2315-2324.	0.7	16
94	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, 520-528.	2.6	16
95	Nitrogen Distribution in Leaf Canopies of High-yielding Rice Cultivar Takanari. <i>Crop Science</i> , 2017, 57, 2080-2088.	0.8	16
96	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.	1.5	16
97	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.	3.9	16
98	Effect of long anther dehiscence on seed set at high temperatures during flowering in rice (<i>Oryza</i>). <i>Overlook 10 Tf 50</i>	1.6	15
99	Paddy Rice Responses to Free-Air [CO ₂] Enrichment. , 2006, , 87-104.		15
100	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.	2.5	14
101	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.	0.9	14
102	MINCERnet: A global research alliance to support the fight against heat stress in rice. <i>J Agricultural Meteorology</i> , 2012, 68, 149-157.	0.8	14
103	Predicting biomass of rice with intermediate traits: Modeling method combining crop growth models and genomic prediction models. <i>PLoS ONE</i> , 2020, 15, e0233951.	1.1	14
104	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.	0.9	13
105	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.	0.9	13
106	Evaluation of crop model prediction and uncertainty using Bayesian parameter estimation and Bayesian model averaging. <i>Agricultural and Forest Meteorology</i> , 2021, 311, 108686.	1.9	13
107	Comparison of Rice Yield after Various Years of Cultivation by Natural Farming. <i>Plant Production Science</i> , 1999, 2, 58-64.	0.9	12
108	Characteristics of water balance in a rainfed paddy field in Northeast Thailand. <i>Paddy and Water Environment</i> , 2008, 6, 153-157.	1.0	12

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109	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.	1.0	12
110	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, 1582-1591.	1.5	12
111	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.	0.9	12
112	Revision of estimates of climate change impacts on rice yield and quality in Japan by considering the combined effects of temperature and CO ₂ concentration. <i>J Agricultural Meteorology</i> , 2021, 77, 139-149.	0.8	12
113	Short-term high nighttime temperatures pose an emerging risk to rice grain failure. <i>Agricultural and Forest Meteorology</i> , 2022, 314, 108779.	1.9	11
114	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.	0.8	10
115	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.	2.5	10
116	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.	0.8	10
117	A Simplified Model for Estimating Nitrogen Mineralization in Paddy Soil.. <i>Japanese Journal of Crop Science</i> , 1994, 63, 496-501.	0.1	10
118	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.	0.6	10
119	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.	1.9	9
120	Emerging research topics in agricultural meteorology and assessment of climate change adaptation. <i>J Agricultural Meteorology</i> , 2018, 74, 54-59.	0.8	9
121	Effects of free-air CO ₂ enrichment on flower opening time in rice. <i>Plant Production Science</i> , 2019, 22, 367-373.	0.9	9
122	Winter nocturnal warming affects the freeze-thaw frequency, soil aggregate distribution, and the contents and decomposability of C and N in paddy fields. <i>Science of the Total Environment</i> , 2022, 802, 149870.	3.9	9
123	Monitoring canopy micrometeorology in diverse climates to improve the prediction of heat-induced spikelet sterility in rice under climate change. <i>Agricultural and Forest Meteorology</i> , 2022, 316, 108860.	1.9	9
124	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.	0.2	8
125	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, 343-351.	0.6	8
126	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.	1.1	8

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127	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.	0.6	8
128	QTL mapping of dehiscence length at the basal part of thecae related to heat tolerance of rice (<i>Oryza</i>) Tj ETQq0 0 0.rgBT /Overlock 10 T	0.6	8
129	Effects of free-air CO ₂ enrichment on heat-induced sterility and pollination in rice. <i>Plant Production Science</i> , 2019, 22, 374-381.	0.9	8
130	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.	0.2	8
131	A trait-based model ensemble approach to design rice plant types for future climate. <i>Global Change Biology</i> , 2022, 28, 2689-2710.	4.2	8
132	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.	2.5	7
133	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, 383-401.	1.3	7
134	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.	0.8	7
135	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.	0.9	6
136	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.	2.3	6
137	Integration of Genomics with Crop Modeling for Predicting Rice Days to Flowering: A Multi-Model Analysis. <i>Field Crops Research</i> , 2022, 276, 108394.	2.3	6
138	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.	3.2	5
139	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	5
140	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	5
141	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.	1.0	5
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