

Hidemitsu Sakai

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

60
papers

2,356
citations

26
h-index

48
g-index

60
ext. papers

2,820
ext. citations

5.5
avg. IF

4.41
L-index

#	Paper	IF	Citations
60	Low N level increases the susceptibility of PSI to photoinhibition induced by short repetitive flashes in leaves of different rice varieties.. <i>Physiologia Plantarum</i> , 2022 , e13644	4.6	0
59	Short-term high nighttime temperatures pose an emerging risk to rice grain failure. <i>Agricultural and Forest Meteorology</i> , 2022 , 314, 108779	5.8	0
58	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	10.2	2
57	Heat-Mitigation Effects of Irrigated Rice-Paddy Fields Under Changing Atmospheric Carbon Dioxide Based on a Coupled Atmosphere and Crop Energy-Balance Model. <i>Boundary-Layer Meteorology</i> , 2021 , 179, 447-476	3.4	1
56	Effect of foliar spray of kinetin on the enhancement of rice yield by elevated CO ₂ . <i>Journal of Agronomy and Crop Science</i> , 2021 , 207, 535-543	3.9	0
55	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
54	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
53	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
52	Yield response of high-yielding rice cultivar Oonari to different environmental conditions. <i>Plant Production Science</i> , 2020 , 23, 69-74	2.4	3
51	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
50	A High-Yielding Rice Cultivar "Takanari" Shows No N Constraints on CO Fertilization. <i>Frontiers in Plant Science</i> , 2019 , 10, 361	6.2	20
49	How elevated CO ₂ affects our nutrition in rice, and how we can deal with it. <i>PLoS ONE</i> , 2019 , 14, e0212849	3.9	19
48	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
47	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
46	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
45	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
44	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

43	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
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	4.9	35
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	Nitrogen Distribution in Leaf Canopies of High-Yielding Rice Cultivar Takanari. <i>Crop Science</i> , 2017 , 57, 2080-2088	2.4	14
39	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
38	A meta-analysis of leaf nitrogen distribution within plant canopies. <i>Annals of Botany</i> , 2016 , 118, 239-47	4.1	45
37	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
36	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
35	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
34	Elevated atmospheric CO ₂ levels affect community structure of rice root-associated bacteria. <i>Frontiers in Microbiology</i> , 2015 , 6, 136	5.7	26
33	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
32	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
31	Impacts of elevated atmospheric CO ₂ on nutrient content of important food crops. <i>Scientific Data</i> , 2015 , 2, 150036	8.2	50
30	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
29	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
28	Increasing CO ₂ threatens human nutrition. <i>Nature</i> , 2014 , 510, 139-42	50.4	762
27	Heat-tolerant rice cultivars retain grain appearance quality under free-air CO ₂ enrichment. <i>Rice</i> , 2014 , 7, 6	5.8	41
26	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

25	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
24	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
23	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, 381-91	4.9	40
22	Effects of elevated [CO ₂] on stem and root lodging among rice cultivars. <i>Science Bulletin</i> , 2013 , 58, 1787-1794		11
21	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
20	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
19	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
18	Interactive Effects of Elevated Atmospheric CO ₂ and Waterlogging on Vegetative Growth of Soybean (<i>Glycine max</i> (L.) Merr.). <i>Plant Production Science</i> , 2012 , 15, 238-245	2.4	11
17	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
16	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
15	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
14	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
13	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
12	Rice plant response to long term CO ₂ enrichment: Gene expression profiling. <i>Plant Science</i> , 2009 , 177, 203-210	5.3	37
11	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
10	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
9	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
8	Effects of Elevated Atmospheric CO ₂ Concentrations on CH ₄ and N ₂ O Emission from Rice Soil: An Experiment in Controlled-environment Chambers. <i>Biogeochemistry</i> , 2006 , 77, 351-373	3.8	73

7	Effect of CO ₂ Enrichment on the Translocation and Partitioning of Carbon at the Early Grain-filling Stage in Rice (<i>Oryza sativa</i> L.). <i>Plant Production Science</i> , 2005 , 8, 8-15	2.4	12
6	Influence of elevated concentrations of atmospheric CO ₂ on CH ₄ and CO ₂ entrapped in rice-paddy soil. <i>Chemical Geology</i> , 2005 , 218, 15-24	4.2	26
5	Changes in concentration and $\delta^{13}\text{C}$ value of dissolved CH ₄ , CO ₂ and organic carbon in rice paddies under ambient and elevated concentrations of atmospheric CO ₂ . <i>Organic Geochemistry</i> , 2005 , 36, 813-823	2.1	11
4	Effects of Elevated CO ₂ Concentration on Photosynthetic Carbon Metabolism in Flag-Leaf Blades of Rice before and after Heading. <i>Plant Production Science</i> , 2003 , 6, 52-58	2.4	12
3	Effects of elevated carbon dioxide concentration on biological nitrogen fixation, nitrogen mineralization and carbon decomposition in submerged rice soil. <i>Biology and Fertility of Soils</i> , 2001 , 34, 7-13	6.1	50
2	Rice carbon balance under elevated CO ₂ . <i>New Phytologist</i> , 2001 , 150, 241-249	9.8	56
1	Fertilizer-derived nitrogen use of two varieties of single-crop paddy rice: a free-air carbon dioxide enrichment study using polymer-coated ¹⁵ N-labeled urea. <i>Soil Science and Plant Nutrition</i> , 1-12	1.6	1