Yasuhiro Usui

List of Publications by Year in Descending Order

40 papers	1,604 citations	17 h-index	40 g-index
41 ext. papers	1,964 ext. citations	5.4 avg, IF	3.97 L-index

#	Paper	IF	Citations
40	Factors destabilizing the control of Monochoria vaginalis by rice bran: its conflicting powers influence both suppression and promotion of germination in paddy soil. *Plant Production Science*, **2021**, 24, 83-93	2.4	3
39	Differences of the canopy surface temperature between F1s and their parents in sugar beet (Beta vulgaris L. ssp. vulgaris) **2021**, 21, 48-53		
38	Five-year soil warming changes soil C and N dynamics in a single rice paddy field in Japan. *Science of the Total Environment*, **2021**, 756, 143845	10.2	5
37	Quantifying the Feedback Between Rice Architecture, Physiology, and Microclimate Under Current and Future CO2 Conditions. *Journal of Geophysical Research G: Biogeosciences*, **2020**, 125, e2019JG005452	3.7	3
36	Comparison of growth and canopy surface temperature among three different cultivars of sugar beet (Beta vulgaris ssp. vulgaris) **2020**, 20, 121-127		
35	Analysis of factors related to varietal differences in the yield of rice (Oryza sativa L.) under Free-Air CO2 Enrichment (FACE) conditions. *Plant Production Science*, **2020**, 23, 19-27	2.4	6
34	Effects of free-air CO2 enrichment on heat-induced sterility and pollination in rice. *Plant Production Science*, **2019**, 22, 374-381	2.4	3
33	A High-Yielding Rice Cultivar "Takanari" Shows No N Constraints on CO Fertilization. *Frontiers in Plant Science*, **2019**, 10, 361	6.2	20
32	How elevated CO2 affects our nutrition in rice, and how we can deal with it. *PLoS ONE*, **2019**, 14, e0212840	3.7	19
31	Oxalate contents in leaves of two rice cultivars grown at a free-air CO2 enrichment (FACE) site. *Plant Production Science*, **2019**, 22, 407-411	2.4	9
30	Yield responses to elevated CO2 concentration among Japanese rice cultivars released since 1882. *Plant Production Science*, **2019**, 22, 352-366	2.4	17
29	Effects of free-air CO2 enrichment on flower opening time in rice. *Plant Production Science*, **2019**, 22, 367-373	2.4	5
28	Effects of Elevated Atmospheric CO2 on Respiratory Rates in Mature Leaves of Two Rice Cultivars Grown at a Free-Air CO2 Enrichment Site and Analyses of the Underlying Mechanisms. *Plant and Cell Physiology*, **2018**, 59, 637-649	4.9	8
27	Increasing canopy photosynthesis in rice can be achieved without a large increase in water use-A model based on free-air CO enrichment. *Global Change Biology*, **2018**, 24, 1321-1341	11.4	33
26	Quantitative trait loci for large sink capacity enhance rice grain yield under free-air CO enrichment conditions. *Scientific Reports*, **2017**, 7, 1827	4.9	35
25	Nitrogen resorption in senescing leaf blades of rice exposed to free-air CO2 enrichment (FACE) under different N fertilization levels. *Plant and Soil*, **2017**, 418, 231-240	4.2	4
24	Nitrogen Distribution in Leaf Canopies of High-Yielding Rice Cultivar Takanari. *Crop Science*, **2017**, 57, 2080-2088	2.4	14

23	Effect of Elevated CO2 Concentration, Elevated Temperature and No Nitrogen Fertilization on Methanogenic Archaeal and Methane-Oxidizing Bacterial Community Structures in Paddy Soil. *Microbes and Environments*, **2016**, 31, 349-56	2.6	16
22	Rice Free-Air Carbon Dioxide Enrichment Studies to Improve Assessment of Climate Change Effects on Rice Agriculture. *Advances in Agricultural Systems Modeling*, **2016**, 45-68	0.3	15
21	Rice grain yield and quality responses to free-air CO2 enrichment combined with soil and water warming. *Global Change Biology*, **2016**, 22, 1256-70	11.4	56
20	Grain growth of different rice cultivars under elevated CO2 concentrations affects yield and quality. *Field Crops Research*, **2015**, 179, 72-80	5.5	29
19	Elevated atmospheric CO2 levels affect community structure of rice root-associated bacteria. *Frontiers in Microbiology*, **2015**, 6, 136	5.7	26
18	Response of soil, leaf endosphere and phyllosphere bacterial communities to elevated CO2 and soil temperature in a rice paddy. *Plant and Soil*, **2015**, 392, 27-44	4.2	32
17	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. *Microbes and Environments*, **2015**, 30, 51-62	2.6	17
16	Impacts of elevated atmospheric CO_2 on nutrient content of important food crops. *Scientific Data*, **2015**, 2, 150036	8.2	50
15	Elevated temperature has stronger effects on the soil food web of a flooded paddy than does CO2. *Soil Biology and Biochemistry*, **2014**, 70, 166-175	7.5	16
14	Increasing CO2 threatens human nutrition. *Nature*, **2014**, 510, 139-42	50.4	762
13	Heat-tolerant rice cultivars retain grain appearance quality under free-air CO2 enrichment. *Rice*, **2014**, 7, 6	5.8	41
12	Effects of elevated carbon dioxide, elevated temperature, and rice growth stage on the community structure of rice root-associated bacteria. *Microbes and Environments*, **2014**, 29, 184-90	2.6	35
11	Fully automated, high-throughput instrumentation for measuring the $\delta^{13}C$ value of methane and application of the instrumentation to rice paddy samples. *Rapid Communications in Mass Spectrometry*, **2014**, 28, 2315-24	2.2	12
10	Planting geometry as a pre-screening technique for identifying CO2 responsive rice genotypes: a case study of panicle number. *Physiologia Plantarum*, **2014**, 152, 520-8	4.6	12
9	Do the rich always become richer? Characterizing the leaf physiological response of the high-yielding rice cultivar Takanari to free-air CO2 enrichment. *Plant and Cell Physiology*, **2014**, 55, 381-91	4.9	40
8	Temperature Difference between Meteorological Station and Nearby Farmland: Case Study for Kumagaya City in Japan. *Scientific Online Letters on the Atmosphere*, **2014**, 10, 45-49	2.1	10
7	Effects of elevated [CO2] on stem and root lodging among rice cultivars. *Science Bulletin*, **2013**, 58, 1787-1794		11
6	Rice cultivar responses to elevated CO at two free-air CO enrichment (FACE) sites in Japan. *Functional Plant Biology*, **2013**, 40, 148-159	2.7	174

5	The effects of free-air CO_2 enrichment (FACE) on carbon and nitrogen accumulation in grains of rice (Oryza sativa L.). *Journal of Experimental Botany*, **2013**, 64, 3179-88	7	37
4	Diurnal variation in CO2, dissolved oxygen (DO), pH and RpH and their correlations in ponded paddy field water. *Japanese Journal of Limnology*, **2013**, 74, 15-20	0.1	5
3	A review of improvements to methods for the measurement of dissolved oxygen, pH, and soil redox potential and the discovery of convective flow in ponded water of paddy fields **2013**, 13, 25-32		
2	Effects of herbicide application on carbon dioxide, dissolved oxygen, pH, and RpH in paddy-field ponded water. *Soil Science and Plant Nutrition*, **2011**, 57, 1-6	1.6	13
1	Absorption and emission of CO2 by ponded water of a paddy field. *Soil Science and Plant Nutrition*, **2003**, 49, 853-857	1.6	9