Takeshi Tokida

List of Publications by Year in Descending Order

77 papers	1,795 citations	27 h-index	40 g-index
80 ext. papers	2,179 ext. citations	4.1 avg, IF	4.57 L-index

#	Paper	IF	Citations
77	Appropriate chamber deployment time for separate quantification of CH4 emissions via plant and ebullition from rice paddies using a modified closed-chamber method. *J Agricultural Meteorology*, **2022**, 78, 41-45	1.1	
76	Winter nocturnal warming affects the freeze-thaw frequency, soil aggregate distribution, and the contents and decomposability of C and N in paddy fields. *Science of the Total Environment*, **2022**, 802, 149870	10.2	2
75	Determinants in the Adoption of Alternate Wetting and Drying Technique for Rice Production in a Gravity Surface Irrigation System in the Philippines. *Water (Switzerland)*, **2022**, 14, 5	3	2
74	Effect of foliar spray of kinetin on the enhancement of rice yield by elevated CO2. *Journal of Agronomy and Crop Science*, **2021**, 207, 535-543	3.9	0
73	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
72	Seasonal and weather-related controls on methane emissions from the stems of mature trees in a cool-temperate forested wetland. *Biogeochemistry*, **2021**, 156, 211	3.8	0
71	Increasing measurement throughput of methane emission from rice paddies with a modified closed-chamber method. *J Agricultural Meteorology*, **2021**, 77, 160-165	1.1	2
70	Quantifying bubbling emission (ebullition) of methane from a rice paddy using high-time-resolution concentration data obtained during a closed-chamber measurement. *J Agricultural Meteorology*, **2021**, 77,	1.1	2
69	Temporal and spatial variations in methane emissions from the littoral zone of a shallow mid-latitude lake with steady methane bubble emission areas. *Agricultural and Forest Meteorology*, **2020**, 295, 108184	5.8	5
68	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. *Frontiers in Plant Science*, **2020**, 11, 786	6.2	2
67	Nitrogen Aspects of the Free-Air CO2 Enrichment (FACE) Study for Paddy Rice Ecosystems **2020**, 331-340		1
66	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
65	Yield response of high-yielding rice cultivar Oonari to different environmental conditions. *Plant Production Science*, **2020**, 23, 69-74	2.4	3
64	Effects of free-air CO2 enrichment on heat-induced sterility and pollination in rice. *Plant Production Science*, **2019**, 22, 374-381	2.4	3
63	A High-Yielding Rice Cultivar "Takanari" Shows No N Constraints on CO Fertilization. *Frontiers in Plant Science*, **2019**, 10, 361	6.2	20
62	Is alternate wetting and drying irrigation technique enough to reduce methane emission from a tropical rice paddy?. *Soil Science and Plant Nutrition*, **2019**, 65, 203-207	1.6	10
61	How elevated CO2 affects our nutrition in rice, and how we can deal with it. *PLoS ONE*, **2019**, 14, e0212840	3.7	19

60	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
59	High mesophyll conductance in the high-yielding rice cultivar Takanari quantified with the combined gas exchange and chlorophyll fluorescence measurements under free-air CO2 enrichment. *Plant Production Science*, **2019**, 22, 395-406	2.4	10
58	Yield responses to elevated CO2 concentration among Japanese rice cultivars released since 1882. *Plant Production Science*, **2019**, 22, 352-366	2.4	17
57	Effects of free-air CO2 enrichment on flower opening time in rice. *Plant Production Science*, **2019**, 22, 367-373	2.4	5
56	Exploring sub-daily to seasonal variations in methane exchange in a single-crop rice paddy in central Japan. *Atmospheric Environment*, **2018**, 179, 156-165	5.3	5
55	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
54	Site-specific feasibility of alternate wetting and drying as a greenhouse gas mitigation option in irrigated rice fields in Southeast Asia: a synthesis. *Soil Science and Plant Nutrition*, **2018**, 64, 2-13	1.6	29
53	Methane and nitrous oxide emissions from paddy fields in Japan: An assessment of controlling factor using an intensive regional data set. *Agriculture, Ecosystems and Environment*, **2018**, 252, 51-60	5.7	10
52	Alternate wetting and drying reduces methane emission from a rice paddy in Central Java, Indonesia without yield loss. *Soil Science and Plant Nutrition*, **2018**, 64, 23-30	1.6	40
51	Impacts of alternate wetting and drying on greenhouse gas emission from paddy field in Central Vietnam. *Soil Science and Plant Nutrition*, **2018**, 64, 14-22	1.6	31
50	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
49	Evaluating the effects of alternate wetting and drying (AWD) on methane and nitrous oxide emissions from a paddy field in Thailand. *Soil Science and Plant Nutrition*, **2018**, 64, 31-38	1.6	33
48	Effects of alternate wetting and drying technique on greenhouse gas emissions from irrigated rice paddy in Central Luzon, Philippines. *Soil Science and Plant Nutrition*, **2018**, 64, 39-46	1.6	26
47	Seabird-affected taluses are denitrification hotspots and potential NO emitters in the High Arctic. *Scientific Reports*, **2018**, 8, 17261	4.9	3
46	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
45	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
44	Nitrogen Distribution in Leaf Canopies of High-Yielding Rice Cultivar Takanari. *Crop Science*, **2017**, 57, 2080-2088	2.4	14
43	Characteristics of Atmosphere-rice Paddy Exchange of Gaseous and Particulate Reactive Nitrogen in Terms of Nitrogen Input to a Single-cropping Rice Paddy Area in Central Japan. *Asian Journal of Atmospheric Environment*, **2017**, 11, 202-216	1.3	2

42	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
41	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
40	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
39	Grain growth of different rice cultivars under elevated CO2 concentrations affects yield and quality. *Field Crops Research*, **2015**, 179, 72-80	5.5	29
38	Elevated atmospheric CO2 levels affect community structure of rice root-associated bacteria. *Frontiers in Microbiology*, **2015**, 6, 136	5.7	26
37	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
36	Characterization of leaf blade- and leaf sheath-associated bacterial communities and assessment of their responses to environmental changes in CO□temperature, and nitrogen levels under field conditions. *Microbes and Environments*, **2015**, 30, 51-62	2.6	17
35	Effect of interannual variation in winter vertical mixing on CH4 dynamics in a subtropical reservoir. *Journal of Geophysical Research G: Biogeosciences*, **2015**, 120, 1246-1261	3.7	20
34	Differential response of rice plants to high night temperatures imposed at varying developmental phases. *Agricultural and Forest Meteorology*, **2015**, 209-210, 69-77	5.8	31
33	Cropland soil□plant systems control production and consumption of methane and nitrous oxide and their emissions to the atmosphere. *Soil Science and Plant Nutrition*, **2015**, 61, 2-33	1.6	27
32	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
31	Free-air CO2 enrichment (FACE) net nitrogen fixation experiment at a paddy soil surface under submerged conditions. *Nutrient Cycling in Agroecosystems*, **2014**, 98, 57-69	3.3	6
30	Heat-tolerant rice cultivars retain grain appearance quality under free-air CO2 enrichment. *Rice*, **2014**, 7, 6	5.8	41
29	A rice gene for microbial symbiosis, Oryza sativa CCaMK, reduces CH4 flux in a paddy field with low nitrogen input. *Applied and Environmental Microbiology*, **2014**, 80, 1995-2003	4.8	32
28	Isotopomer analysis of production, consumption and soil-to-atmosphere emission processes of N2O at the beginning of paddy field irrigation. *Soil Biology and Biochemistry*, **2014**, 70, 66-78	7.5	29
27	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
26	Fully automated, high-throughput instrumentation for measuring the □13C value of methane and application of the instrumentation to rice paddy samples. *Rapid Communications in Mass Spectrometry*, **2014**, 28, 2315-24	2.2	12
25	Soil and water warming accelerates phenology and down-regulation of leaf photosynthesis of rice plants grown under free-air CO2 enrichment (FACE). *Plant and Cell Physiology*, **2014**, 55, 370-80	4.9	31

24	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
23	The contribution of entrapped gas bubbles to the soil methane pool and their role in methane emission from rice paddy soil in free-air [CO2] enrichment and soil warming experiments. *Plant and Soil*, **2013**, 364, 131-143	4.2	32
22	Physical Controls on Ebullition Losses of Methane from Peatlands. *Geophysical Monograph Series*, **2013**, 219-228	1.1	9
21	Amelioration of the reactive nitrogen flux calculation by a day/night separation in weekly mean air concentration measurements. *Atmospheric Environment*, **2013**, 79, 462-471	5.3	7
20	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
19	The effects of free-air CO□enrichment (FACE) on carbon and nitrogen accumulation in grains of rice (Oryza sativa L.). *Journal of Experimental Botany*, **2013**, 64, 3179-88	7	37
18	FACE?????????????????. *Kagaku To Seibutsu*, **2013**, 51, 628-633	0	
17	Microbial community composition controls the effects of climate change on methane emission from rice paddies. *Environmental Microbiology Reports*, **2012**, 4, 648-54	3.7	16
16	Effects of moisture conditions on potential soil water repellency in a tropical forest regenerated after fire. *Geoderma*, **2012**, 181-182, 30-35	6.7	11
15	Atmosphere-rice paddy exchanges of inorganic particles and relevant gases during a week in winter and a week in summer. *J Agricultural Meteorology*, **2012**, 68, 55-68	1.1	11
14	Appropriate frequency and time of day to measure methane emissions from an irrigated rice paddy in Japan using the manual closed chamber method. *Greenhouse Gas Measurement and Management*, **2012**, 2, 118-128		32
13	Performance of the enlarged Rice-FACE system using pure CO2 installed in Tsukuba, Japan. *J Agricultural Meteorology*, **2012**, 68, 15-23	1.1	41
12	Effect of rice straw application on CH4 emission in continuous and recently converted paddy fields. *J Agricultural Meteorology*, **2011**, 67, 185-192	1.1	5
11	Methane and soil CO2 production from current-season photosynthates in a rice paddy exposed to elevated CO2 concentration and soil temperature. *Global Change Biology*, **2011**, 17, 3327-3337	11.4	80
10	Potential ammonia emission from flag leaves of paddy rice (Oryza sativa L. cv. Koshihikari). *Agriculture, Ecosystems and Environment*, **2011**, 144, 117-123	5.7	7
9	Effects of free-air CO₂ enrichment (FACE) and soil warming on CH₄ emission from a rice paddy field: impact assessment and stoichiometric evaluation. *Biogeosciences*, **2010**, 7, 2639-2653	4.6	77
8	Methane emission from rice fields as affected by land use change. *Agriculture, Ecosystems and Environment*, **2010**, 139, 742-748	5.7	27
7	Evaluation of gas emission effect on the carbon budget in a mangrove estuary. *Proceedings of Coastal Engineering Jsce*, **2008**, 55, 1186-1190		

6	Dense Gas Flow in Volcanic Ash Soil: Effect of Pore Structure on Density-Driven Flow. *Soil Science Society of America Journal*, **2008**, 72, 480-486	2.5	7
5	Falling atmospheric pressure as a trigger for methane ebullition from peatland. *Global Biogeochemical Cycles*, **2007**, 21, n/a-n/a	5.9	136
4	Episodic release of methane bubbles from peatland during spring thaw. *Chemosphere*, **2007**, 70, 165-71	8.4	60
3	Ebullition of methane from peat with falling atmospheric pressure. *Geophysical Research Letters*, **2005**, 32,	4.9	75
2	In situ accumulation of methane bubbles in a natural wetland soil. *European Journal of Soil Science*, **2005**, 56, 389-396	3.4	43
1	Fertilizer-derived nitrogen use of two varieties of single-crop paddy rice: a free-air carbon dioxide enrichment study using polymer-coated 15N-labeled urea. *Soil Science and Plant Nutrition*,1-12	1.6	1