

# Takeshi Tokida

## List of Publications by Citations

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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	Rice cultivar responses to elevated CO <sub>2</sub> at two free-air CO <sub>2</sub> enrichment (FACE) sites in Japan. <i>Functional Plant Biology</i> , <b>2013</b> , 40, 148-159	2.7	174
76	Falling atmospheric pressure as a trigger for methane ebullition from peatland. <i>Global Biogeochemical Cycles</i> , <b>2007</b> , 21, n/a-n/a	5.9	136
75	Methane and soil CO <sub>2</sub> production from current-season photosynthates in a rice paddy exposed to elevated CO <sub>2</sub> concentration and soil temperature. <i>Global Change Biology</i> , <b>2011</b> , 17, 3327-3337	11.4	80
74	Effects of free-air CO <sub>2</sub> enrichment (FACE) and soil warming on CH <sub>4</sub> emission from a rice paddy field: impact assessment and stoichiometric evaluation. <i>Biogeosciences</i> , <b>2010</b> , 7, 2639-2653	4.6	77
73	Ebullition of methane from peat with falling atmospheric pressure. <i>Geophysical Research Letters</i> , <b>2005</b> , 32,	4.9	75
72	Episodic release of methane bubbles from peatland during spring thaw. <i>Chemosphere</i> , <b>2007</b> , 70, 165-71	8.4	60
71	Rice grain yield and quality responses to free-air CO <sub>2</sub> enrichment combined with soil and water warming. <i>Global Change Biology</i> , <b>2016</b> , 22, 1256-70	11.4	56
70	In situ accumulation of methane bubbles in a natural wetland soil. <i>European Journal of Soil Science</i> , <b>2005</b> , 56, 389-396	3.4	43
69	Heat-tolerant rice cultivars retain grain appearance quality under free-air CO <sub>2</sub> enrichment. <i>Rice</i> , <b>2014</b> , 7, 6	5.8	41
68	Performance of the enlarged Rice-FACE system using pure CO <sub>2</sub> installed in Tsukuba, Japan. <i>J Agricultural Meteorology</i> , <b>2012</b> , 68, 15-23	1.1	41
67	Do the rich always become richer? Characterizing the leaf physiological response of the high-yielding rice cultivar Takanari to free-air CO <sub>2</sub> enrichment. <i>Plant and Cell Physiology</i> , <b>2014</b> , 55, 381-94	4.9	40
66	Alternate wetting and drying reduces methane emission from a rice paddy in Central Java, Indonesia without yield loss. <i>Soil Science and Plant Nutrition</i> , <b>2018</b> , 64, 23-30	1.6	40
65	The effects of free-air CO <sub>2</sub> enrichment (FACE) on carbon and nitrogen accumulation in grains of rice ( <i>Oryza sativa</i> L.). <i>Journal of Experimental Botany</i> , <b>2013</b> , 64, 3179-88	7	37
64	Quantitative trait loci for large sink capacity enhance rice grain yield under free-air CO <sub>2</sub> enrichment conditions. <i>Scientific Reports</i> , <b>2017</b> , 7, 1827	4.9	35
63	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> , <b>2014</b> , 29, 184-90	2.6	35
62	Increasing canopy photosynthesis in rice can be achieved without a large increase in water use-A model based on free-air CO <sub>2</sub> enrichment. <i>Global Change Biology</i> , <b>2018</b> , 24, 1321-1341	11.4	33
61	Evaluating the effects of alternate wetting and drying (AWD) on methane and nitrous oxide emissions from a paddy field in Thailand. <i>Soil Science and Plant Nutrition</i> , <b>2018</b> , 64, 31-38	1.6	33

60	Response of soil, leaf endosphere and phyllosphere bacterial communities to elevated CO <sub>2</sub> and soil temperature in a rice paddy. <i>Plant and Soil</i> , <b>2015</b> , 392, 27-44	4.2	32
59	A rice gene for microbial symbiosis, <i>Oryza sativa</i> CcAMK, reduces CH <sub>4</sub> flux in a paddy field with low nitrogen input. <i>Applied and Environmental Microbiology</i> , <b>2014</b> , 80, 1995-2003	4.8	32
58	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 <sub>2</sub> ] enrichment and soil warming experiments. <i>Plant and Soil</i> , <b>2013</b> , 364, 131-143	4.2	32
57	Appropriate frequency and time of day to measure methane emissions from an irrigated rice paddy in Japan using the manual closed chamber method. <i>Greenhouse Gas Measurement and Management</i> , <b>2012</b> , 2, 118-128		32
56	Differential response of rice plants to high night temperatures imposed at varying developmental phases. <i>Agricultural and Forest Meteorology</i> , <b>2015</b> , 209-210, 69-77	5.8	31
55	Soil and water warming accelerates phenology and down-regulation of leaf photosynthesis of rice plants grown under free-air CO <sub>2</sub> enrichment (FACE). <i>Plant and Cell Physiology</i> , <b>2014</b> , 55, 370-80	4.9	31
54	Impacts of alternate wetting and drying on greenhouse gas emission from paddy field in Central Vietnam. <i>Soil Science and Plant Nutrition</i> , <b>2018</b> , 64, 14-22	1.6	31
53	Grain growth of different rice cultivars under elevated CO <sub>2</sub> concentrations affects yield and quality. <i>Field Crops Research</i> , <b>2015</b> , 179, 72-80	5.5	29
52	Site-specific feasibility of alternate wetting and drying as a greenhouse gas mitigation option in irrigated rice fields in Southeast Asia: a synthesis. <i>Soil Science and Plant Nutrition</i> , <b>2018</b> , 64, 2-13	1.6	29
51	Isotopomer analysis of production, consumption and soil-to-atmosphere emission processes of N <sub>2</sub> O at the beginning of paddy field irrigation. <i>Soil Biology and Biochemistry</i> , <b>2014</b> , 70, 66-78	7.5	29
50	Cropland soil-plant systems control production and consumption of methane and nitrous oxide and their emissions to the atmosphere. <i>Soil Science and Plant Nutrition</i> , <b>2015</b> , 61, 2-33	1.6	27
49	Methane emission from rice fields as affected by land use change. <i>Agriculture, Ecosystems and Environment</i> , <b>2010</b> , 139, 742-748	5.7	27
48	Elevated atmospheric CO <sub>2</sub> levels affect community structure of rice root-associated bacteria. <i>Frontiers in Microbiology</i> , <b>2015</b> , 6, 136	5.7	26
47	Effects of alternate wetting and drying technique on greenhouse gas emissions from irrigated rice paddy in Central Luzon, Philippines. <i>Soil Science and Plant Nutrition</i> , <b>2018</b> , 64, 39-46	1.6	26
46	A High-Yielding Rice Cultivar "Takanari" Shows No N Constraints on CO Fertilization. <i>Frontiers in Plant Science</i> , <b>2019</b> , 10, 361	6.2	20
45	Effect of interannual variation in winter vertical mixing on CH <sub>4</sub> dynamics in a subtropical reservoir. <i>Journal of Geophysical Research G: Biogeosciences</i> , <b>2015</b> , 120, 1246-1261	3.7	20
44	How elevated CO <sub>2</sub> affects our nutrition in rice, and how we can deal with it. <i>PLoS ONE</i> , <b>2019</b> , 14, e0212849	3.9	19
43	Yield responses to elevated CO <sub>2</sub> concentration among Japanese rice cultivars released since 1882. <i>Plant Production Science</i> , <b>2019</b> , 22, 352-366	2.4	17

42	Characterization of leaf blade- and leaf sheath-associated bacterial communities and assessment of their responses to environmental changes in CO <sub>2</sub> temperature, and nitrogen levels under field conditions. <i>Microbes and Environments</i> , <b>2015</b> , 30, 51-62	2.6	17
41	Effect of Elevated CO <sub>2</sub> Concentration, Elevated Temperature and No Nitrogen Fertilization on Methanogenic Archaeal and Methane-Oxidizing Bacterial Community Structures in Paddy Soil. <i>Microbes and Environments</i> , <b>2016</b> , 31, 349-56	2.6	16
40	Elevated temperature has stronger effects on the soil food web of a flooded paddy than does CO <sub>2</sub> . <i>Soil Biology and Biochemistry</i> , <b>2014</b> , 70, 166-175	7.5	16
39	Microbial community composition controls the effects of climate change on methane emission from rice paddies. <i>Environmental Microbiology Reports</i> , <b>2012</b> , 4, 648-54	3.7	16
38	Rice Free-Air Carbon Dioxide Enrichment Studies to Improve Assessment of Climate Change Effects on Rice Agriculture. <i>Advances in Agricultural Systems Modeling</i> , <b>2016</b> , 45-68	0.3	15
37	Nitrogen Distribution in Leaf Canopies of High-Yielding Rice Cultivar Takanari. <i>Crop Science</i> , <b>2017</b> , 57, 2080-2088	2.4	14
36	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> , <b>2014</b> , 28, 2315-24	2.2	12
35	Effects of moisture conditions on potential soil water repellency in a tropical forest regenerated after fire. <i>Geoderma</i> , <b>2012</b> , 181-182, 30-35	6.7	11
34	Atmosphere-rice paddy exchanges of inorganic particles and relevant gases during a week in winter and a week in summer. <i>J Agricultural Meteorology</i> , <b>2012</b> , 68, 55-68	1.1	11
33	Is alternate wetting and drying irrigation technique enough to reduce methane emission from a tropical rice paddy?. <i>Soil Science and Plant Nutrition</i> , <b>2019</b> , 65, 203-207	1.6	10
32	Methane and nitrous oxide emissions from paddy fields in Japan: An assessment of controlling factor using an intensive regional data set. <i>Agriculture, Ecosystems and Environment</i> , <b>2018</b> , 252, 51-60	5.7	10
31	High mesophyll conductance in the high-yielding rice cultivar Takanari quantified with the combined gas exchange and chlorophyll fluorescence measurements under free-air CO <sub>2</sub> enrichment. <i>Plant Production Science</i> , <b>2019</b> , 22, 395-406	2.4	10
30	Oxalate contents in leaves of two rice cultivars grown at a free-air CO <sub>2</sub> enrichment (FACE) site. <i>Plant Production Science</i> , <b>2019</b> , 22, 407-411	2.4	9
29	Physical Controls on Ebullition Losses of Methane from Peatlands. <i>Geophysical Monograph Series</i> , <b>2013</b> , 219-228	1.1	9
28	Effects of Elevated Atmospheric CO <sub>2</sub> on Respiratory Rates in Mature Leaves of Two Rice Cultivars Grown at a Free-Air CO <sub>2</sub> Enrichment Site and Analyses of the Underlying Mechanisms. <i>Plant and Cell Physiology</i> , <b>2018</b> , 59, 637-649	4.9	8
27	Amelioration of the reactive nitrogen flux calculation by a day/night separation in weekly mean air concentration measurements. <i>Atmospheric Environment</i> , <b>2013</b> , 79, 462-471	5.3	7
26	Potential ammonia emission from flag leaves of paddy rice ( <i>Oryza sativa</i> L. cv. Koshihikari). <i>Agriculture, Ecosystems and Environment</i> , <b>2011</b> , 144, 117-123	5.7	7
25	Dense Gas Flow in Volcanic Ash Soil: Effect of Pore Structure on Density-Driven Flow. <i>Soil Science Society of America Journal</i> , <b>2008</b> , 72, 480-486	2.5	7

24	Free-air CO <sub>2</sub> enrichment (FACE) net nitrogen fixation experiment at a paddy soil surface under submerged conditions. <i>Nutrient Cycling in Agroecosystems</i> , <b>2014</b> , 98, 57-69	3.3	6
23	Analysis of factors related to varietal differences in the yield of rice ( <i>Oryza sativa</i> L.) under Free-Air CO <sub>2</sub> Enrichment (FACE) conditions. <i>Plant Production Science</i> , <b>2020</b> , 23, 19-27	2.4	6
22	Temporal and spatial variations in methane emissions from the littoral zone of a shallow mid-latitude lake with steady methane bubble emission areas. <i>Agricultural and Forest Meteorology</i> , <b>2020</b> , 295, 108184	5.8	5
21	Exploring sub-daily to seasonal variations in methane exchange in a single-crop rice paddy in central Japan. <i>Atmospheric Environment</i> , <b>2018</b> , 179, 156-165	5.3	5
20	Effect of rice straw application on CH <sub>4</sub> emission in continuous and recently converted paddy fields. <i>J Agricultural Meteorology</i> , <b>2011</b> , 67, 185-192	1.1	5
19	Effects of free-air CO <sub>2</sub> enrichment on flower opening time in rice. <i>Plant Production Science</i> , <b>2019</b> , 22, 367-373	2.4	5
18	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> , <b>2021</b> , 756, 143845	10.2	5
17	Nitrogen resorption in senescing leaf blades of rice exposed to free-air CO <sub>2</sub> enrichment (FACE) under different N fertilization levels. <i>Plant and Soil</i> , <b>2017</b> , 418, 231-240	4.2	4
16	Effects of free-air CO <sub>2</sub> enrichment on heat-induced sterility and pollination in rice. <i>Plant Production Science</i> , <b>2019</b> , 22, 374-381	2.4	3
15	Yield response of high-yielding rice cultivar Oonari to different environmental conditions. <i>Plant Production Science</i> , <b>2020</b> , 23, 69-74	2.4	3
14	Seabird-affected taluses are denitrification hotspots and potential NO emitters in the High Arctic. <i>Scientific Reports</i> , <b>2018</b> , 8, 17261	4.9	3
13	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> , <b>2020</b> , 11, 786	6.2	2
12	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. <i>Asian Journal of Atmospheric Environment</i> , <b>2017</b> , 11, 202-216	1.3	2
11	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> , <b>2022</b> , 802, 149870	10.2	2
10	Increasing measurement throughput of methane emission from rice paddies with a modified closed-chamber method. <i>J Agricultural Meteorology</i> , <b>2021</b> , 77, 160-165	1.1	2
9	Quantifying bubbling emission (ebullition) of methane from a rice paddy using high-time-resolution concentration data obtained during a closed-chamber measurement. <i>J Agricultural Meteorology</i> , <b>2021</b> , 77,	1.1	2
8	Determinants in the Adoption of Alternate Wetting and Drying Technique for Rice Production in a Gravity Surface Irrigation System in the Philippines. <i>Water (Switzerland)</i> , <b>2022</b> , 14, 5	3	2
7	Nitrogen Aspects of the Free-Air CO <sub>2</sub> Enrichment (FACE) Study for Paddy Rice Ecosystems <b>2020</b> , 331-340		1

6	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. <i>Soil Science and Plant Nutrition</i> , 1-12	1.6	1
5	Effect of foliar spray of kinetin on the enhancement of rice yield by elevated CO <sub>2</sub> . <i>Journal of Agronomy and Crop Science</i> , <b>2021</b> , 207, 535-543	3.9	0
4	Seasonal and weather-related controls on methane emissions from the stems of mature trees in a cool-temperate forested wetland. <i>Biogeochemistry</i> , <b>2021</b> , 156, 211	3.8	0
3	FACE?????????????????????. <i>Kagaku To Seibutsu</i> , <b>2013</b> , 51, 628-633	0	
2	Evaluation of gas emission effect on the carbon budget in a mangrove estuary. <i>Proceedings of Coastal Engineering Jsce</i> , <b>2008</b> , 55, 1186-1190		
1	Appropriate chamber deployment time for separate quantification of CH <sub>4</sub> emissions via plant and ebullition from rice paddies using a modified closed-chamber method. <i>J Agricultural Meteorology</i> , <b>2022</b> , 78, 41-45	1.1	