Hiroki Ikawa

List of Publications by Year
in descending order

34 papers	1,566 citations	430442 18 h-index	377514 34 g-index
39 all docs	39 docs citations	39 times ranked	2548 citing authors

#	Article	IF	Citations
1	The FLUXNET2015 dataset and the ONEFlux processing pipeline for eddy covariance data. Scientific Data, 2020, 7, 225.	2.4	646
2	Representativeness of Eddy-Covariance flux footprints for areas surrounding AmeriFlux sites. Agricultural and Forest Meteorology, 2021, 301-302, 108350.	1.9	125
3	Increasing contribution of peatlands to boreal evapotranspiration in a warming climate. Nature Climate Change, 2020, 10, 555-560.	8.1	106
4	The three major axes of terrestrial ecosystem function. Nature, 2021, 598, 468-472.	13.7	99
5	Understory CO2, sensible heat, and latent heat fluxes in a black spruce forest in interior Alaska. Agricultural and Forest Meteorology, 2015, 214-215, 80-90.	1.9	53
6	Latitudinal gradient of spruce forest understory and tundra phenology in Alaska as observed from satellite and ground-based data. Remote Sensing of Environment, 2016, 177, 160-170.	4.6	48
7	Increasing canopy photosynthesis in rice can be achieved without a large increase in water useâ€”A model based on freeâ€air <scp>CO</scp>₂ enrichment. Global Change Biology, 2018, 24, 1321-1341.	4.2	47
8	Temperature thresholds of ecosystem respiration at a global scale. Nature Ecology and Evolution, 2021, 5, 487-494.	3.4	46
9	8 million phenological and sky images from 29 ecosystems from the Arctic to the tropics: the Phenological Eyes Network. Ecological Research, 2018, 33, 1091-1092.	0.7	37
10	Light-stress avoidance mechanisms in a<i>Sphagnum</i>-dominated wet coastal Arctic tundra ecosystem in Alaska. Ecology, 2011, 92, 633-644.	1.5	34
11	A High-Yielding Rice Cultivar â€œTakanariâ€•Shows No N Constraints on CO2 Fertilization. Frontiers in Plant Science, 2019, 10, 361.	1.7	31
12	The biophysical climate mitigation potential of boreal peatlands during the growing season. Environmental Research Letters, 2020, 15, 104004.	2.2	31
13	Temporal variations in airâ€sea <scp>CO</scp>₂ exchange near large kelp beds near <scp>S</scp>an <scp>D</scp>iego, <scp>C</scp>alifornia. Journal of Geophysical Research: Oceans, 2015, 120, 50-63.	1.0	26
14	Soil respiration strongly offsets carbon uptake in Alaska and Northwest Canada. Environmental Research Letters, 2021, 16, 084051.	2.2	23
15	Evapotranspiration in a rice paddy field over 13 crop years. J Agricultural Meteorology, 2017, 73, 109-118.	0.8	22
16	Airâ€“sea exchange of CO₂ at a Northern California coastal site along the California Current upwelling system. Biogeosciences, 2013, 10, 4419-4432.	1.3	20
17	Optimization of a biochemical model with eddy covariance measurements in black spruce forests of Alaska for estimating CO2 fertilization effects. Agricultural and Forest Meteorology, 2016, 222, 98-111.	1.9	18
18	The GRENE-TEA model intercomparison project (GTMIP): overview and experiment protocol for Stage 1. Geoscientific Model Development, 2015, 8, 2841-2856.	1.3	16

#	Article	IF	Citations
19	In Situ Observations Reveal How Spectral Reflectance Responds to Growing Season Phenology of an Open Evergreen Forest in Alaska. Remote Sensing, 2018, 10, 1071.	1.8	14
20	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.	0.9	13
21	The GRENE-TEA model intercomparison project (GTMIP) Stage 1 forcing data set. Earth System Science Data, 2016, 8, 1-14.	3.7	11
22	Extremely dry environment down-regulates nighttime respiration of a black spruce forest in Interior Alaska. Agricultural and Forest Meteorology, 2018, 249, 297-309.	1.9	8
23	Airâ€“sea CO2 exchange of beach and near-coastal waters of the Chukchi Sea near Barrow, Alaska. Continental Shelf Research, 2011, 31, 1357-1364.	0.9	6
24	Spatial and temporal variability of air-sea CO2 exchange of alongshore waters in summer near Barrow, Alaska. Estuarine, Coastal and Shelf Science, 2014, 141, 37-46.	0.9	5
25	A high-performance system of multiple gas-exchange chambers with a laser spectrometer to estimate leaf photosynthesis, stomatal conductance, and mesophyll conductance. Journal of Plant Research, 2019, 132, 705-718.	1.2	5
26	Quantifying the Feedback Between Rice Architecture, Physiology, and Microclimate Under Current and Future CO 2 Conditions. Journal of Geophysical Research G: Biogeosciences, 2020, 125, e2019JG005452.	1.3	5
27	Comparison of fallow season CO₂ efflux from paddy soil estimated using laboratory incubation with eddy covariance-based flux. J Agricultural Meteorology, 2017, 73, 140-145.	0.8	5
28	Micrometeorological Model for Estimating Evapotranspiration from an Irrigated Maize Field in the Hetao Irrigation District in the Yellow River Basin. J Agricultural Meteorology, 2005, 60, 537-540.	0.8	4
29	Links between annual surface temperature variation and land cover heterogeneity for a boreal forest as characterized by continuous, fibre-optic DTS monitoring. Geoscientific Instrumentation, Methods and Data Systems, 2018, 7, 223-234.	0.6	2
30	Effect of foliar spray of kinetin on the enhancement of rice yield by elevated CO 2. Journal of Agronomy and Crop Science, 2021, 207, 535-543.	1.7	2
31	Heat-Mitigation Effects of Irrigated Rice-Paddy Fields Under Changing Atmospheric Carbon Dioxide Based on a Coupled Atmosphere and Crop Energy-Balance Model. Boundary-Layer Meteorology, 2021, 179, 447-476.	1.2	2
32	Atmosphere-sea ice-ocean interaction study in Saroma-ko Lagoon, Hokkaido, Japan 2021. Bulletin of Glaciological Research, 2022, 40, 1-17.	0.5	2
33	A quantitative staging system for describing rice panicle development and its application for a crop phenological model. Agronomy Journal, 2021, 113, 5040-5053.	0.9	1
34	Effects of FACE on Rice Leaf Photosynthesis and Transpiration in a Paddy Field -Changes of Parameters in Farquhar and Ball-Berry Models under Elevated CO₂-. J Agricultural Meteorology, 2005, 60, 593-596.	0.8	0