Bruce A Kimball

List of Publications by Year
in descending order

35 papers	2,900 citations	257450 24 h-index	377865 34 g-index
35 all docs	35 docs citations	35 times ranked	3541 citing authors

#	Article	IF	Citations
1	C4 grasses prosper as carbon dioxide eliminates desiccation in warmed semi-arid grassland. Nature, 2011, 476, 202-205.	27.8	445
2	Crop responses to elevated CO2 and interactions with H2O, N, and temperature. Current Opinion in Plant Biology, 2016, 31, 36-43.	7.1	336
3	Productivity and water use of wheat under free-air CO2 enrichment. Global Change Biology, 1995, 1, 429-442.	9.5	315
4	Infrared heater arrays for warming ecosystem field plots. Global Change Biology, 2008, 14, 309-320.	9.5	257
5	Effect of warming and grazing on litter mass loss and temperature sensitivity of litter and dung mass loss on the Tibetan plateau. Global Change Biology, 2010, 16, 1606-1617.	9.5	163
6	Global Warming Can Negate the Expected CO2 Stimulation in Photosynthesis and Productivity for Soybean Grown in the Midwestern United States Â Â. Plant Physiology, 2013, 162, 410-423.	4.8	161
7	Next generation of elevated [CO₂] experiments with crops: a critical investment for feeding the future world. Plant, Cell and Environment, 2008, 31, 1317-1324.	5.7	154
8	Crop model improvement reduces the uncertainty of the response to temperature of multi-model ensembles. Field Crops Research, 2017, 202, 5-20.	5.1	109
9	Testing CERESâ€“Wheat with Freeâ€Air Carbon Dioxide Enrichment (FACE) Experiment Data: CO2 and Water Interactions. Agronomy Journal, 1999, 91, 247-255.	1.8	85
10	Gas exchange and water relations of spring wheat under full-season infrared warming. Global Change Biology, 2011, 17, 2113-2133.	9.5	69
11	Narrowing uncertainties in the effects of elevated CO2 on crops. Nature Food, 2020, 1, 775-782.	14.0	67
12	Design and performance of combined infrared canopy and belowground warming in the B4Warm<scp>ED</scp> (Boreal Forest Warming at an Ecotone in Danger) experiment. Global Change Biology, 2015, 21, 2334-2348.	9.5	65
13	Simulation of maize evapotranspiration: An inter-comparison among 29 maize models. Agricultural and Forest Meteorology, 2019, 271, 264-284.	4.8	62
14	Responses of time of anthesis and maturity to sowing dates and infrared warming in spring wheat. Field Crops Research, 2011, 124, 213-222.	5.1	59
15	Acclimation response of spring wheat in a free-air CO(2) enrichment (FACE) atmosphere with variable soil nitrogen regimes. 2. Net assimilation and stomatal conductance of leaves. Photosynthesis Research, 2000, 66, 79-95.	2.9	54
16	Infrared heater system for warming tropical forest understory plants and soils. Ecology and Evolution, 2018, 8, 1932-1944.	1.9	51
17	Simulation of free air CO2 enriched wheat growth and interactions with water, nitrogen, and temperature. Agricultural and Forest Meteorology, 2010, 150, 1331-1346.	4.8	50
18	Comment on the comment by Amthor et al. on â€œAppropriate experimental ecosystem warming methodsâ€• by Aronson and McNulty. Agricultural and Forest Meteorology, 2011, 151, 420-424.	4.8	43

#	Article	IF	Citations
19	Carbon Dioxide Effects on Crop Energy Balance: Testing ecosys with a Free-Air CO2 Enrichment (FACE) Experiment. Agronomy Journal, 1995, 87, 446-457.	1.8	37
20	Seasonal assessment of greenhouse gas emissions from irrigated lowland rice fields under infrared warming. Agriculture, Ecosystems and Environment, 2014, 184, 88-100.	5.3	35
21	Modeling Interactions among Carbon Dioxide, Nitrogen, and Climate on Energy Exchange of Wheat in a Free Air Carbon Dioxide Experiment. Agronomy Journal, 2001, 93, 638-649.	1.8	31
22	Infrared heater arrays for warming field plots scaled up to 5-m diameter. Agricultural and Forest Meteorology, 2009, 149, 721-724.	4.8	28
23	Simulation of future global warming scenarios in rice paddies with an open-field warming facility. Plant Methods, 2011, 7, 41.	4.3	28
24	Microclimatic Performance of a Free-Air Warming and CO2 Enrichment Experiment in Windy Wyoming, USA. PLoS ONE, 2015, 10, e0116834.	2.5	28
25	Lessons from FACE: CO₂ Effects and Interactions with Water, Nitrogen and Temperature. ICP Series on Climate Change Impacts, Adaptation, and Mitigation, 2010, , 87-107.	0.4	26
26	Cardinal temperatures for wheat leaf appearance as assessed from varied sowing dates and infrared warming. Field Crops Research, 2012, 137, 213-220.	5.1	26
27	Performance and energy costs associated with scaling infrared heater arrays for warming field plots from 1 to 100Âm. Theoretical and Applied Climatology, 2012, 108, 247-265.	2.8	25
28	Infraredâ€Warmed and Unwarmed Wheat Vegetation Indices Coalesce Using Canopyâ€Temperatureâ€“Based Growing Degree Days. Agronomy Journal, 2012, 104, 114-118.	1.8	22
29	Quantification of excess water loss in plant canopies warmed with infrared heating. Global Change Biology, 2012, 18, 2860-2868.	9.5	20
30	Predicting Canopy Temperatures and Infrared Heater Energy Requirements for Warming Field Plots. Agronomy Journal, 2015, 107, 129-141.	1.8	19
31	Using Canopy Resistance for Infrared Heater Control When Warming Openâ€Field Plots. Agronomy Journal, 2015, 107, 1105-1112.	1.8	14
32	Energy balance in the DSSAT-CSM-CROPGRO model. Agricultural and Forest Meteorology, 2021, 297, 108241.	4.8	13
33	Controlled infrared heating of an artic meadow: challenge in the vegetation establishment stage. Plant Methods, 2019, 15, 3.	4.3	2
34	Soil Organic Carbon Isotope Tracing in Sorghum under Ambient CO2 and Free-Air CO2 Enrichment (FACE). Land, 2022, 11, 309.	2.9	1
35	Validation of Spring Wheat Responses to Elevated CO 2 , Irrigation, and Nitrogen Fertilization in the Community Land Model 4.5. Earth and Space Science, 2020, 7, e2020EA001088.	2.6	0