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	Soil Organic Carbon Isotope Tracing in Sorghum under Ambient CO2 and Free-Air CO2 Enrichment (FACE). Land, 2022, 11, 309.	2.9	1
2	Energy balance in the DSSAT-CSM-CROPGRO model. Agricultural and Forest Meteorology, 2021, 297, 108241.	4.8	13
3	Narrowing uncertainties in the effects of elevated CO2 on crops. Nature Food, 2020, 1, 775-782.	14.0	67
4	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
5	Simulation of maize evapotranspiration: An inter-comparison among 29 maize models. Agricultural and Forest Meteorology, 2019, 271, 264-284.	4.8	62
6	Controlled infrared heating of an artic meadow: challenge in the vegetation establishment stage. Plant Methods, 2019, 15, 3.	4.3	2
7	Infrared heater system for warming tropical forest understory plants and soils. Ecology and Evolution, 2018, 8, 1932-1944.	1.9	51
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	Crop responses to elevated CO2 and interactions with H2O, N, and temperature. Current Opinion in Plant Biology, 2016, 31, 36-43.	7.1	336
10	Using Canopy Resistance for Infrared Heater Control When Warming Openâ€Field Plots. Agronomy Journal, 2015, 107, 1105-1112.	1.8	14
11	Microclimatic Performance of a Free-Air Warming and CO2 Enrichment Experiment in Windy Wyoming, USA. PLoS ONE, 2015, 10, e0116834.	2.5	28
12	Predicting Canopy Temperatures and Infrared Heater Energy Requirements for Warming Field Plots. Agronomy Journal, 2015, 107, 129-141.	1.8	19
13	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
14	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
15	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
16	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
17	Infraredâ€Warmed and Unwarmed Wheat Vegetation Indices Coalesce Using Canopyâ€Temperatureâ€"Based Growing Degree Days. Agronomy Journal, 2012, 104, 114-118.	1.8	22
18	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

#	Article	IF	Citations
19	Quantification of excess water loss in plant canopies warmed with infrared heating. Global Change Biology, 2012, 18, 2860-2868.	9.5	20
20	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
21	C4 grasses prosper as carbon dioxide eliminates desiccation in warmed semi-arid grassland. Nature, 2011, 476, 202-205.	27.8	445
22	Gas exchange and water relations of spring wheat under full-season infrared warming. Global Change Biology, 2011, 17, 2113-2133.	9.5	69
23	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
24	Simulation of future global warming scenarios in rice paddies with an open-field warming facility. Plant Methods, 2011, 7, 41.	4.3	28
25	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
26	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
27	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
28	Infrared heater arrays for warming field plots scaled up to 5-m diameter. Agricultural and Forest Meteorology, 2009, 149, 721-724.	4.8	28
29	Infrared heater arrays for warming ecosystem field plots. Global Change Biology, 2008, 14, 309-320.	9.5	257
30	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
31	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
32	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
33	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
34	Productivity and water use of wheat under free-air CO2 enrichment. Global Change Biology, 1995, 1, 429-442.	9.5	315
35	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