Heidi A Webber

List of Publications by Year
in descending order

55 papers	3,076 citations	186265 28 h-index	168389 53 g-index
56 all docs	56 docs citations	56 times ranked	3092 citing authors

#	Article	IF	Citations
1	Climate change impact and adaptation for wheat protein. Global Change Biology, 2019, 25, 155-173.	9.5	312
2	Climate impacts on global agriculture emerge earlier in new generation of climate and crop models. Nature Food, 2021, 2, 873-885.	14.0	263
3	Crop modelling for integrated assessment of risk to food production from climate change. Environmental Modelling and Software, 2015, 72, 287-303.	4.5	230
4	Diverging importance of drought stress for maize and winter wheat in Europe. Nature Communications, 2018, 9, 4249.	12.8	230
5	Heat stress in cereals: Mechanisms and modelling. European Journal of Agronomy, 2015, 64, 98-113.	4.1	227
6	Global wheat production with 1.5 and 2.0Â°C above preâ€industrial warming. Global Change Biology, 2019, 25, 1428-1444.	9.5	107
7	What role can crop models play in supporting climate change adaptation decisions to enhance food security in Sub-Saharan Africa?. Agricultural Systems, 2014, 127, 161-177.	6.1	98
8	Canopy temperature for simulation of heat stress in irrigated wheat in a semi-arid environment: A multi-model comparison. Field Crops Research, 2017, 202, 21-35.	5.1	91
9	Heat stress is overestimated in climate impact studies for irrigated agriculture. Environmental Research Letters, 2017, 12, 054023.	5.2	88
10	Modelling the impact of heat stress on maize yield formation. Field Crops Research, 2016, 198, 226-237.	5.1	72
11	Impacts of 1.5 versus 2.0â€‰Â°C on cereal yields in the West African Sudan Savanna. Environmental Research Letters, 2018, 13, 034014.	5.2	70
12	Simulating canopy temperature for modelling heat stress in cereals. Environmental Modelling and Software, 2016, 77, 143-155.	4.5	68
13	How accurately do maize crop models simulate the interactions of atmospheric CO2 concentration levels with limited water supply on water use and yield?. European Journal of Agronomy, 2018, 100, 67-75.	4.1	68
14	Narrowing uncertainties in the effects of elevated CO2 on crops. Nature Food, 2020, 1, 775-782.	14.0	67
15	The implication of irrigation in climate change impact assessment: a Europeanâ€wide study. Global Change Biology, 2015, 21, 4031-4048.	9.5	66
16	Farming in the West African Sudan Savanna: Insights in the context of climate change. African Journal of Agricultural Research Vol Pp, 2013, 8, 4693-4705.	0.5	63
17	Simulation of maize evapotranspiration: An inter-comparison among 29 maize models. Agricultural and Forest Meteorology, 2019, 271, 264-284.	4.8	62
18	Water use efficiency of common bean and green gram grown using alternate furrow and deficit irrigation. Agricultural Water Management, 2006, 86, 259-268.	5.6	60

#	ARTICLE	IF	CITATIONS
19	Modelling climate change impacts on maize yields under low nitrogen input conditions in subâ€Saharan Africa. Global Change Biology, 2020, 26, 5942-5964.	9.5	60
20	No perfect storm for crop yield failure in Germany. Environmental Research Letters, 2020, 15, 104012.	5.2	53
21	Climate change impacts on crop yields, land use and environment in response to crop sowing dates and thermal time requirements. Agricultural Systems, 2017, 157, 81-92.	6.1	52
22	Modelling food security: Bridging the gap between the micro and the macro scale. Global Environmental Change, 2020, 63, 102085.	7.8	47
23	Climate change impacts on European crop yields: Do we need to consider nitrogen limitation?. European Journal of Agronomy, 2015, 71, 123-134.	4.1	45
24	Weather impacts on crop yields - searching for simple answers to a complex problem. Environmental Research Letters, 2017, 12, 081001.	5.2	43
25	Machine learning in crop yield modelling: A powerful tool, but no surrogate for science. Agricultural and Forest Meteorology, 2022, 312, 108698.	4.8	43
26	Uncertainty in future irrigation water demand and risk of crop failure for maize in Europe. Environmental Research Letters, 2016, 11, 074007.	5.2	37
27	Physical robustness of canopy temperature models for crop heat stress simulation across environments and production conditions. Field Crops Research, 2018, 216, 75-88.	5.1	36
28	Potential impact of climate change on peanut yield in Senegal, West Africa. Field Crops Research, 2018, 219, 148-159.	5.1	34
29	To bias correct or not to bias correct? An agricultural impact modelersâ€™ perspective on regional climate model data. Agricultural and Forest Meteorology, 2021, 304-305, 108406.	4.8	31
30	Effect of sowing date distributions on simulation of maize yields at regional scale â€“ A case study in Central Ghana, West Africa. Agricultural Systems, 2016, 147, 10-23.	6.1	29
31	Global wheat production could benefit from closing the genetic yield gap. Nature Food, 2022, 3, 532-541.	14.0	29
32	Using reanalysis in crop monitoring and forecasting systems. Agricultural Systems, 2019, 168, 144-153.	6.1	28
33	Interactive effects of conservation tillage, residue management, and nitrogen fertilizer application on soil properties under maize-cotton rotation system on highly weathered soils of West Africa. Soil and Tillage Research, 2020, 196, 104473.	5.6	26
34	Combined analysis of climate, technological and price changes on future arable farming systems in Europe. Agricultural Systems, 2015, 140, 56-73.	6.1	25
35	Effects of soil- and climate data aggregation on simulated potato yield and irrigation water requirement. Science of the Total Environment, 2020, 710, 135589.	8.0	23
36	Effects of Deficit Irrigation and Salinity Stress on Common Bean (<i>Phaseolus Vulgaris</i> L.) and Mungbean (<i>Vigna Radiata</i> (L.) Wilczek) Grown in a Controlled Environment. Journal of Agronomy and Crop Science, 2010, 196, 262-272.	3.5	20

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37	Quantifying sustainable intensification of agriculture: The contribution of metrics and modelling. Ecological Indicators, 2021, 129, 107870.	6.3	18
38	Effects of input data aggregation on simulated crop yields in temperate and Mediterranean climates. European Journal of Agronomy, 2019, 103, 32-46.	4.1	16
39	Crop management adaptations to improve and stabilize crop yields under low-yielding conditions in the Sudan Savanna of West Africa. European Journal of Agronomy, 2018, 101, 1-9.	4.1	14
40	Early vigour in wheat: Could it lead to more severe terminal drought stress under elevated atmospheric [CO₂] and semiâ€arid conditions?. Global Change Biology, 2020, 26, 4079-4093.	9.5	13
41	Modification of the microclimate and water balance through the integration of trees into temperate cropping systems. Agricultural and Forest Meteorology, 2022, 323, 109065.	4.8	13
42	Adapting the CROPGRO model for saline soils: the case for a common bean crop. Irrigation Science, 2010, 28, 317-329.	2.8	12
43	Implications of data aggregation method on crop model outputs â€" The case of irrigated potato systems in Tasmania, Australia. European Journal of Agronomy, 2021, 126, 126276.	4.1	11
44	Legume Production and Irrigation Strategies in the <scp>A</scp>ral Sea Basin: Yield, Yield Components, Water Relations and Crop Development of Common Bean (<i><scp>P</scp>haseolus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	3.5	10
45	Simulation of winter wheat response to variable sowing dates and densities in a high-yielding environment. Journal of Experimental Botany, 2022, 73, 5715-5729.	4.8	10
46	Uncertainty in climate change impact studies for irrigated maize cropping systems in southern Spain. Scientific Reports, 2022, 12, 4049.	3.3	9
47	Effects of Fertilization Rate and Water Availability on Peanut Growth and Yield in Senegal (West) Tj ETQq1 1 0.784314 rgBT /Overlock 1	0.3	7
48	Responses of winter wheat and maize to varying soil moisture: From leaf to canopy. Agricultural and Forest Meteorology, 2022, 314, 108803.	4.8	7
49	Soil tillage, residue management and site interactions affecting nitrogen use efficiency in maize and cotton in the Sudan Savanna of Africa. Field Crops Research, 2019, 244, 107629.	5.1	6
50	Methodology to assess the changing risk of yield failure due to heat and drought stress under climate change. Environmental Research Letters, 2021, 16, 104033.	5.2	6
51	Extreme lows of wheat production in Brazil. Environmental Research Letters, 2021, 16, 104025.	5.2	6
52	Can reduced tillage buffer the future climate warming effects on maize yield in different soil types of West Africa?. Soil and Tillage Research, 2021, 205, 104767.	5.6	4
53	Crop Models as Tools for Agroclimatology. Agronomy, 0, , 519-546.	0.2	4
54	Response of two legume crops to soil salinity in gypsiferous soils. Irrigation and Drainage, 2009, 58, 586-595.	1.7	3

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55	Processing tomatoes under climate change. Nature Food, 2022, 3, 404-405.	14.0	3