

Stefan Siebert

List of Publications by Year in Descending Order

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Version: 2024-04-28

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

94
papers

13,701
citations

43
h-index

108
g-index

108
ext. papers

16,214
ext. citations

7
avg, IF

6.41
L-index

#	Paper	IF	Citations
94	Uncertainty in climate change impact studies for irrigated maize cropping systems in southern Spain.. <i>Scientific Reports</i> , 2022 , 12, 4049	4.9	0
93	Nutrient supply affects the yield stability of major European crops 50 year study. <i>Environmental Research Letters</i> , 2021 , 16, 014003	6.2	3
92	Implications of data aggregation method on crop model outputs The case of irrigated potato systems in Tasmania, Australia. <i>European Journal of Agronomy</i> , 2021 , 126, 126276	5	8
91	Crop harvested area, not yield, drives variability in crop production in Iran. <i>Environmental Research Letters</i> , 2021 , 16, 064058	6.2	5
90	Crop response to P fertilizer omission under a changing climate - Experimental and modeling results over 115 years of a long-term fertilizer experiment. <i>Field Crops Research</i> , 2021 , 268, 108174	5.5	0
89	The use of remote sensing to derive maize sowing dates for large-scale crop yield simulations. <i>International Journal of Biometeorology</i> , 2021 , 65, 565-576	3.7	1
88	Impact of crop management and environment on the spatio-temporal variance of potato yield at regional scale. <i>Field Crops Research</i> , 2021 , 270, 108213	5.5	4
87	Drought risk for agricultural systems in South Africa: Drivers, spatial patterns, and implications for drought risk management. <i>Science of the Total Environment</i> , 2021 , 799, 149505	10.2	8
86	Estimating Actual Evapotranspiration over Croplands Using Vegetation Index Methods and Dynamic Harvested Area. <i>Remote Sensing</i> , 2021 , 13, 5167	5	2
85	Global priorities of environmental issues to combat food insecurity and biodiversity loss. <i>Science of the Total Environment</i> , 2020 , 730, 139096	10.2	21
84	Global-scale drought risk assessment for agricultural systems. <i>Natural Hazards and Earth System Sciences</i> , 2020 , 20, 695-712	3.9	56
83	A Spatially Transferable Drought Hazard and Drought Risk Modeling Approach Based on Remote Sensing Data. <i>Remote Sensing</i> , 2020 , 12, 237	5	8
82	Agricultural risks from changing snowmelt. <i>Nature Climate Change</i> , 2020 , 10, 459-465	21.4	78
81	Crop Yield Estimation Using Multi-Source Satellite Image Series and Deep Learning 2020 ,		4
80	Effects of soil- and climate data aggregation on simulated potato yield and irrigation water requirement. <i>Science of the Total Environment</i> , 2020 , 710, 135589	10.2	14
79	Multiple cropping systems of the world and the potential for increasing cropping intensity. <i>Global Environmental Change</i> , 2020 , 64, 102131	10.1	35
78	Analysis of Drought Impact on Croplands from Global to Regional Scale: A Remote Sensing Approach. <i>Remote Sensing</i> , 2020 , 12, 4030	5	5

77	Early vigour in wheat: Could it lead to more severe terminal drought stress under elevated atmospheric [CO ₂] and semi-arid conditions?. <i>Global Change Biology</i> , 2020 , 26, 4079-4093	11.4	5
76	Local food crop production can fulfil demand for less than one-third of the population. <i>Nature Food</i> , 2020 , 1, 229-237	14.4	51
75	Global-scale drought risk assessment for agricultural systems 2019 ,		2
74	Voluntary sustainability standards could significantly reduce detrimental impacts of global agriculture. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 2130-2137	11.5	13
73	Flexibility and intensity of global water use. <i>Nature Sustainability</i> , 2019 , 2, 515-523	22.1	55
72	Drought vulnerability and risk assessments: state of the art, persistent gaps, and research agenda. <i>Environmental Research Letters</i> , 2019 , 14, 083002	6.2	50
71	Optimizing harmonics from Landsat time series data: the case of mapping rainfed and irrigated agriculture in Zimbabwe. <i>Remote Sensing Letters</i> , 2019 , 10, 1038-1046	2.3	15
70	Impact of nutrient supply on the expression of genetic improvements of cereals and row crops: A case study using data from a long-term fertilization experiment in Germany. <i>European Journal of Agronomy</i> , 2018 , 96, 34-46	5	5
69	Quantifying the response of wheat yields to heat stress: The role of the experimental setup. <i>Field Crops Research</i> , 2018 , 217, 93-103	5.5	30
68	Two-thirds of global cropland area impacted by climate oscillations. <i>Nature Communications</i> , 2018 , 9, 1257	17.4	38
67	Climate change effect on wheat phenology depends on cultivar change. <i>Scientific Reports</i> , 2018 , 8, 4891	4.9	59
66	Human Water Use Impacts on the Strength of the Continental Sink for Atmospheric Water. <i>Geophysical Research Letters</i> , 2018 , 45, 4068-4076	4.9	27
65	Diverging importance of drought stress for maize and winter wheat in Europe. <i>Nature Communications</i> , 2018 , 9, 4249	17.4	129
64	Genetic yield gains of winter wheat in Germany over more than 100 years (1895-2007) under contrasting fertilizer applications. <i>Environmental Research Letters</i> , 2018 , 13, 104003	6.2	14
63	The use of food imports to overcome local limits to growth. <i>Earth's Future</i> , 2017 , 5, 393-407	7.9	46
62	The food-energy-water nexus: Transforming science for society. <i>Water Resources Research</i> , 2017 , 53, 3550-3556	5.4	135
61	Heat stress is overestimated in climate impact studies for irrigated agriculture. <i>Environmental Research Letters</i> , 2017 , 12, 054023	6.2	53
60	Global Relationships between Cropland Intensification and Summer Temperature Extremes over the Last 50 Years. <i>Journal of Climate</i> , 2017 , 30, 7505-7528	4.4	35

59	Independent and combined effects of high temperature and drought stress around anthesis on wheat. <i>Journal of Agronomy and Crop Science</i> , 2017 , 203, 453-463	3.9	52
58	The implication of input data aggregation on up-scaling soil organic carbon changes. <i>Environmental Modelling and Software</i> , 2017 , 96, 361-377	5.2	22
57	Climate and management interaction cause diverse crop phenology trends. <i>Agricultural and Forest Meteorology</i> , 2017 , 233, 55-70	5.8	40
56	Weather impacts on crop yields - searching for simple answers to a complex problem. <i>Environmental Research Letters</i> , 2017 , 12, 081001	6.2	32
55	Bringing it all together: linking measures to secure nations' food supply. <i>Current Opinion in Environmental Sustainability</i> , 2017 , 29, 98-117	7.2	34
54	Improved estimation of nitrogen uptake in grasslands using the nitrogen dilution curve [Reply to the letter to the editor by Lemaire and Gastal, 2016]. <i>Agronomy for Sustainable Development</i> , 2016 , 36, 1	6.8	
53	Causes and trends of water scarcity in food production. <i>Environmental Research Letters</i> , 2016 , 11, 015001	6.2	70
52	Evaluating the precision of eight spatial sampling schemes in estimating regional means of simulated yield for two crops. <i>Environmental Modelling and Software</i> , 2016 , 80, 100-112	5.2	21
51	Simulating canopy temperature for modelling heat stress in cereals. <i>Environmental Modelling and Software</i> , 2016 , 77, 143-155	5.2	43
50	Impact of Spatial Soil and Climate Input Data Aggregation on Regional Yield Simulations. <i>PLoS ONE</i> , 2016 , 11, e0151782	3.7	60
49	Diet change and food loss reduction: What is their combined impact on global water use and scarcity?. <i>Earth's Future</i> , 2016 , 4, 62-78	7.9	49
48	The world's road to water scarcity: shortage and stress in the 20th century and pathways towards sustainability. <i>Scientific Reports</i> , 2016 , 6, 38495	4.9	329
47	The limits of increasing food production with irrigation in India. <i>Food Security</i> , 2015 , 7, 835-856	6.7	22
46	Improved estimation of nitrogen uptake in grasslands using the nitrogen dilution curve. <i>Agronomy for Sustainable Development</i> , 2015 , 35, 1561-1570	6.8	3
45	Intensity of heat stress in winter wheat phenology compensates for the adverse effect of global warming. <i>Environmental Research Letters</i> , 2015 , 10, 024012	6.2	64
44	Adaptation of crop production to climate change by crop substitution. <i>Mitigation and Adaptation Strategies for Global Change</i> , 2015 , 20, 1155-1174	3.9	18
43	Demand for multi-scale weather data for regional crop modeling. <i>Agricultural and Forest Meteorology</i> , 2015 , 200, 156-171	5.8	62
42	The implication of irrigation in climate change impact assessment: a European-wide study. <i>Global Change Biology</i> , 2015 , 21, 4031-48	11.4	51

41	Simulation of the phenological development of wheat and maize at the global scale. <i>Global Ecology and Biogeography</i> , 2015 , 24, 1018-1029	6.1	43
40	A global data set of the extent of irrigated land from 1900 to 2005. <i>Hydrology and Earth System Sciences</i> , 2015 , 19, 1521-1545	5.5	202
39	Impact of data resolution on heat and drought stress simulated for winter wheat in Germany. <i>European Journal of Agronomy</i> , 2015 , 65, 69-82	5	35
38	Effect of weather data aggregation on regional crop simulation for different crops, production conditions, and response variables. <i>Climate Research</i> , 2015 , 65, 141-157	1.6	38
37	Variability of effects of spatial climate data aggregation on regional yield simulation by crop models. <i>Climate Research</i> , 2015 , 65, 53-69	1.6	33
36	Leverage points for improving global food security and the environment. <i>Science</i> , 2014 , 345, 325-8	33.3	420
35	Combined impacts of climate and nutrient fertilization on yields of pearl millet in Niger. <i>European Journal of Agronomy</i> , 2014 , 55, 77-88	5	18
34	Water footprints of cities Indicators for sustainable consumption and production. <i>Hydrology and Earth System Sciences</i> , 2014 , 18, 213-226	5.5	54
33	Diet change – solution to reduce water use?. <i>Environmental Research Letters</i> , 2014 , 9, 074016	6.2	130
32	Future crop production threatened by extreme heat. <i>Environmental Research Letters</i> , 2014 , 9, 041001	6.2	35
31	Impact of heat stress on crop yield – the importance of considering canopy temperature. <i>Environmental Research Letters</i> , 2014 , 9, 044012	6.2	109
30	Improvements in crop water productivity increase water sustainability and food security – global analysis. <i>Environmental Research Letters</i> , 2013 , 8, 024030	6.2	141
29	From food insufficiency towards trade dependency: a historical analysis of global food availability. <i>PLoS ONE</i> , 2013 , 8, e82714	3.7	144
28	The Role of Virtual Water Flows in Physical Water Scarcity: The Case of Central Asia. <i>International Journal of Water Resources Development</i> , 2012 , 28, 453-474	3	28
27	Lost food, wasted resources: global food supply chain losses and their impacts on freshwater, cropland, and fertiliser use. <i>Science of the Total Environment</i> , 2012 , 438, 477-89	10.2	674
26	Shifts in comparative advantages for maize, oat and wheat cropping under climate change in Europe. <i>Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment</i> , 2012 , 29, 1514-26	3.2	55
25	Spatio-temporal patterns of phenological development in Germany in relation to temperature and day length. <i>Agricultural and Forest Meteorology</i> , 2012 , 152, 44-57	5.8	109
24	Impact of water withdrawals from groundwater and surface water on continental water storage variations. <i>Journal of Geodynamics</i> , 2012 , 59-60, 143-156	2.2	384

23	Changes in time of sowing, flowering and maturity of cereals in Europe under climate change. <i>Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment</i> , 2012 , 29, 1527-42	3.2	108
22	Solutions for a cultivated planet. <i>Nature</i> , 2011 , 478, 337-42	50.4	4351
21	Exploring global irrigation patterns: A multilevel modelling approach. <i>Agricultural Systems</i> , 2011 , 104, 703-713	6.1	52
20	Anthropogenic transformation of the biomes, 1700 to 2000. <i>Global Ecology and Biogeography</i> , 2010 , 19, no-no	6.1	275
19	Global Patterns of Cropland Use Intensity. <i>Remote Sensing</i> , 2010 , 2, 1625-1643	5	98
18	Groundwater use for irrigation: A global inventory. <i>Hydrology and Earth System Sciences</i> , 2010 , 14, 1863-1880	13.8	912
17	MIRCA2000: Global monthly irrigated and rainfed crop areas around the year 2000: A new high-resolution data set for agricultural and hydrological modeling. <i>Global Biogeochemical Cycles</i> , 2010 , 24, n/a-n/a	5.9	806
16	Quantifying blue and green virtual water contents in global crop production as well as potential production losses without irrigation. <i>Journal of Hydrology</i> , 2010 , 384, 198-217	6	436
15	Use of a tri-axial accelerometer for automated recording and classification of goats' grazing behaviour. <i>Applied Animal Behaviour Science</i> , 2009 , 119, 158-170	2.2	111
14	Filling the voids in the SRTM elevation model: A TIN-based delta surface approach. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2007 , 62, 283-294	11.8	41
13	Climate and irrigation water use of a mountain oasis in northern Oman. <i>Agricultural Water Management</i> , 2007 , 89, 1-14	5.9	27
12	Agricultural, architectural and archaeological evidence for the role and ecological adaptation of a scattered mountain oasis in Oman. <i>Journal of Arid Environments</i> , 2005 , 62, 177-197	2.5	19
11	Nutrient cycling and field-based partial nutrient balances in two mountain oases of Oman. <i>Field Crops Research</i> , 2005 , 94, 149-164	5.5	25
10	A comparison of global spatial distributions of nitrogen inputs for nonpoint sources and effects on river nitrogen export. <i>Global Biogeochemical Cycles</i> , 2005 , 19, n/a-n/a	5.9	28
9	Development and validation of the global map of irrigation areas. <i>Hydrology and Earth System Sciences</i> , 2005 , 9, 535-547	5.5	381
8	Non-destructive dry matter estimation of <i>Alhagi sparsifolia</i> vegetation in a desert oasis of Northwest China. <i>Journal of Vegetation Science</i> , 2004 , 15, 365-372	3.1	10
7	Non-destructive dry matter estimation of <i>Alhagi sparsifolia</i> vegetation in a desert oasis of Northwest China. <i>Journal of Vegetation Science</i> , 2004 , 15, 365	3.1	11
6	Development and testing of the WaterGAP 2 global model of water use and availability. <i>Hydrological Sciences Journal</i> , 2003 , 48, 317-337	3.5	551

5	Global estimates of water withdrawals and availability under current and future Business-as-usual conditions. <i>Hydrological Sciences Journal</i> , 2003 , 48, 339-348	3-5	292
4	Global modeling of irrigation water requirements. <i>Water Resources Research</i> , 2002 , 38, 8-1-8-10	5-4	451
3	Water footprints of cities Indicators for sustainable consumption and production		9
2	A global dataset of the extent of irrigated land from 1900 to 2005		2
1	Groundwater use for irrigation A global inventory		67