

Holger Meinke

List of Publications by Citations

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125
papers

7,229
citations

37
h-index

83
g-index

133
ext. papers

8,214
ext. citations

4.6
avg, IF

5.49
L-index

#	Paper	IF	Citations
125	An overview of APSIM, a model designed for farming systems simulation. <i>European Journal of Agronomy</i> , 2003 , 18, 267-288	5	1689
124	Adapting agriculture to climate change. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 19691-6	11.5	1197
123	Impacts of the Madden-Julian Oscillation on Australian Rainfall and Circulation. <i>Journal of Climate</i> , 2009 , 22, 1482-1498	4.4	203
122	The vulnerability of Australian rural communities to climate variability and change: Part III Integrating impacts with adaptive capacity. <i>Environmental Science and Policy</i> , 2010 , 13, 18-27	6.2	201
121	Development of a generic crop model template in the cropping system model APSIM. <i>European Journal of Agronomy</i> , 2002 , 18, 121-140	5	198
120	Seasonal and Inter-Annual Climate Forecasting: The New Tool for Increasing Preparedness to Climate Variability and Change In Agricultural Planning And Operations. <i>Climatic Change</i> , 2005 , 70, 221-253	4.5	196
119	Eco-efficient Agriculture: Concepts, Challenges, and Opportunities. <i>Crop Science</i> , 2010 , 50, S-109-S-119	2.4	172
118	Actionable climate knowledge: from analysis to synthesis. <i>Climate Research</i> , 2006 , 33, 101-110	1.6	148
117	Potential applications of subseasonal-to-seasonal (S2S) predictions. <i>Meteorological Applications</i> , 2017 , 24, 315-325	2.1	145
116	Near-global impact of the Madden-Julian Oscillation on rainfall. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	138
115	The vulnerability of Australian rural communities to climate variability and change: Part II Conceptualising and measuring vulnerability. <i>Environmental Science and Policy</i> , 2010 , 13, 8-17	6.2	127
114	Modelling global change impacts on wheat cropping in south-east Queensland, Australia. <i>Environmental Modelling and Software</i> , 1999 , 14, 297-306	5.2	109
113	Adaptation science for agriculture and natural resource management—urgency and theoretical basis. <i>Current Opinion in Environmental Sustainability</i> , 2009 , 1, 69-76	7.2	108
112	A Sunflower Simulation Model: I. Model Development. <i>Agronomy Journal</i> , 1993 , 85, 725-735	2.2	101
111	Potential deep drainage under wheat crops in a Mediterranean climate. I. Temporal and spatial variability. <i>Australian Journal of Agricultural Research</i> , 2001 , 52, 45		99
110	Beyond climate-smart agriculture: toward safe operating spaces for global food systems. <i>Agriculture and Food Security</i> , 2013 , 2,	3.1	76
109	Rice in cropping systems—Modelling transitions between flooded and non-flooded soil environments. <i>European Journal of Agronomy</i> , 2012 , 39, 9-24	5	71

108	Potential soil water extraction by sunflower on a range of soils. <i>Field Crops Research</i> , 1993 , 32, 59-81	5.5	67
107	Providing Seasonal-to-Interannual Climate Information for Risk Management and Decision-making. <i>Procedia Environmental Sciences</i> , 2010 , 1, 81-101		66
106	Biochar increases plant-available water in a sandy loam soil under an aerobic rice crop system. <i>Solid Earth</i> , 2014 , 5, 939-952	3.3	65
105	Increasing profits and reducing risks in crop production using participatory systems simulation approaches. <i>Agricultural Systems</i> , 2001 , 70, 493-513	6.1	65
104	Correlation between temperature and phenology prediction error in rice (<i>Oryza sativa</i> L.). <i>Agricultural and Forest Meteorology</i> , 2011 , 151, 1545-1555	5.8	64
103	Rainfall Variability at Decadal and Longer Time Scales: Signal or Noise?. <i>Journal of Climate</i> , 2005 , 18, 89-964	6.4	60
102	Improving wheat simulation capabilities in Australia from a cropping systems perspective III. The integrated wheat model (I_WHEAT). <i>European Journal of Agronomy</i> , 1998 , 8, 101-116	5	59
101	Operational seasonal forecasting of crop performance. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2005 , 360, 2109-24	5.8	55
100	Challenges for weed management in African rice systems in a changing climate. <i>Journal of Agricultural Science</i> , 2011 , 149, 427-435	1	53
99	The Australian National Windbreaks Program: overview and summary of results. <i>Australian Journal of Experimental Agriculture</i> , 2002 , 42, 649		51
98	A Peanut Simulation Model: I. Model Development and Testing. <i>Agronomy Journal</i> , 1995 , 87, 1085-1093	2.2	50
97	Modelling the role of algae in rice crop nutrition and soil organic carbon maintenance. <i>European Journal of Agronomy</i> , 2012 , 39, 35-43	5	49
96	Spatial impact of projected changes in rainfall and temperature on wheat yields in Australia. <i>Climatic Change</i> , 2013 , 117, 163-179	4.5	49
95	Improving wheat simulation capabilities in Australia from a cropping systems perspective: water and nitrogen effects on spring wheat in a semi-arid environment. <i>European Journal of Agronomy</i> , 1997 , 7, 75-88	5	46
94	Towards groundwater neutral cropping systems in the Alluvial Fans of the North China Plain. <i>Agricultural Water Management</i> , 2016 , 165, 131-140	5.9	44
93	Predicting optimum crop designs using crop models and seasonal climate forecasts. <i>Scientific Reports</i> , 2018 , 8, 2231	4.9	43
92	The intrinsic plasticity of farm businesses and their resilience to change. An Australian example. <i>Field Crops Research</i> , 2011 , 124, 157-170	5.5	43
91	Probabilistic Forecasts of the Onset of the North Australian Wet Season. <i>Monthly Weather Review</i> , 2007 , 135, 3506-3520	2.4	43

90	SOI PHASES AND CLIMATIC RISK TO PEANUT PRODUCTION: A CASE STUDY FOR NORTHERN AUSTRALIA. <i>International Journal of Climatology</i> , 1996 , 16, 783-789	3.5	43
89	Plant neurobiology and green plant intelligence: science, metaphors and nonsense. <i>Journal of the Science of Food and Agriculture</i> , 2008 , 88, 363-370	4.3	38
88	The interface between land use systems research and policy: Multiple arrangements and leverages. <i>Land Use Policy</i> , 2009 , 26, 434-442	5.6	35
87	Properties of a clay soil from 1.5 to 3.5 years after biochar application and the impact on rice yield. <i>Geoderma</i> , 2016 , 276, 7-18	6.7	34
86	Assessing exceptional drought with a cropping systems simulator: a case study for grain production in northeast Australia. <i>Agricultural Systems</i> , 1998 , 57, 315-332	6.1	34
85	Weather, climate, and farmers: an overview. <i>Meteorological Applications</i> , 2006 , 13, 7	2.1	32
84	Global change impacts on wheat production along an environmental gradient in south Australia. <i>Environment International</i> , 2001 , 27, 195-200	12.9	31
83	Assessing linear interpolation to generate daily radiation and temperature data for use in crop simulations. <i>European Journal of Agronomy</i> , 2004 , 21, 133-148	5	30
82	From rainfall to farm incomes—transforming advice for Australian drought policy. II. Forecasting farm incomes. <i>Australian Journal of Agricultural Research</i> , 2007 , 58, 1004		29
81	The best farm-level irrigation strategy changes seasonally with fluctuating water availability. <i>Agricultural Water Management</i> , 2012 , 103, 33-42	5.9	28
80	From rainfall to farm incomes—transforming advice for Australian drought policy. I. Development and testing of a bioeconomic modelling system. <i>Australian Journal of Agricultural Research</i> , 2007 , 58, 993		28
79	Three Putative Types of El Niño Revealed by Spatial Variability in Impact on Australian Wheat Yield. <i>Journal of Climate</i> , 2005 , 18, 1566-1574	4.4	28
78	Assessing the sustainability of wheat-based cropping systems using simulation modelling: sustainability = 42?. <i>Sustainability Science</i> , 2014 , 9, 1-16	6.4	27
77	Key weather extremes affecting potato production in The Netherlands. <i>European Journal of Agronomy</i> , 2012 , 37, 11-22	5	26
76	Yield formation and tillering dynamics of direct-seeded rice in flooded and nonflooded soils in the Huai River Basin of China. <i>Field Crops Research</i> , 2010 , 116, 252-259	5.5	26
75	The impact of extreme climatic events on pasture-based dairy systems: a review. <i>Crop and Pasture Science</i> , 2017 , 68, 1158	2.2	25
74	Development and use of a barley crop simulation model to evaluate production management strategies in north-eastern Australia. <i>Australian Journal of Agricultural Research</i> , 1996 , 47, 997		25
73	Forecasting regional crop production using SOI phases: an example for the Australian peanut industry. <i>Australian Journal of Agricultural Research</i> , 1997 , 48, 789		25

72	A Sunflower Simulation Model: II. Simulating Production Risks in a Variable Sub-Tropical Environment. <i>Agronomy Journal</i> , 1993 , 85, 735-742	2.2	24
71	The Potential Value of Seasonal Climate Forecasting in Managing Cropping Systems. <i>Atmospheric and Oceanographic Sciences Library</i> , 2000 , 167-181		24
70	Evaluation of radiation and temperature data generators in the Australian tropics and sub-tropics using crop simulation models. <i>Agricultural and Forest Meteorology</i> , 1995 , 72, 295-316	5.8	23
69	Tissue-Specific Regulation of Na and K Transporters Explains Genotypic Differences in Salinity Stress Tolerance in Rice. <i>Frontiers in Plant Science</i> , 2019 , 10, 1361	6.2	22
68	Managing Climatic Risks to Combat Land Degradation and Enhance Food security: Key Information Needs. <i>Procedia Environmental Sciences</i> , 2010 , 1, 305-312		22
67	Climatic risk to peanut production: a simulation study for Northern Australia. <i>Australian Journal of Experimental Agriculture</i> , 1995 , 35, 777		22
66	Comparing water options for irrigation farmers using Modern Portfolio Theory. <i>Agricultural Water Management</i> , 2012 , 115, 1-9	5.9	21
65	Improving wheat simulation capabilities in Australia from a cropping systems perspective II. Testing simulation capabilities of wheat growth. <i>European Journal of Agronomy</i> , 1998 , 8, 83-99	5	21
64	Assessing Strategies for Orobanche sp. Control Using a Combined Seedbank and Competition Model. <i>Agronomy Journal</i> , 2005 , 97, 1551-1559	2.2	21
63	Identification of new QTL for salt tolerance from rice variety Pokkali. <i>Journal of Agronomy and Crop Science</i> , 2020 , 206, 202-213	3.9	20
62	A Peanut Simulation Model: II. Assessing Regional Production Potential. <i>Agronomy Journal</i> , 1995 , 87, 1093-1099	2.2	19
61	Molecular mechanisms of salinity tolerance in rice. <i>Crop Journal</i> , 2021 , 9, 506-520	4.6	19
60	Assessing the sustainability of wheat-based cropping systems using APSIM: model parameterisation and evaluation. <i>Australian Journal of Agricultural Research</i> , 2007 , 58, 75		17
59	On the relation between weather variables and sorghum ergot infection. <i>Australian Journal of Agricultural Research</i> , 2000 , 51, 313		17
58	Identifying optimal sowing and flowering periods for barley in Australia: a modelling approach. <i>Agricultural and Forest Meteorology</i> , 2020 , 282-283, 107871	5.8	17
57	Preface: Climate Predictions for Better Agricultural Risk Management. <i>Australian Journal of Agricultural Research</i> , 2007 , 58, 935		16
56	Resilience achieved via multiple compensating subsystems: The immediate impacts of COVID-19 control measures on the agri-food systems of Australia and New Zealand. <i>Agricultural Systems</i> , 2021 , 187, 103025	6.1	16
55	A regulator of early flowering in barley (<i>Hordeum vulgare</i> L.). <i>PLoS ONE</i> , 2018 , 13, e0200722	3.7	15

54	On tactical crop management using seasonal climate forecasts and simulation modelling: a case study for wheat. <i>Scientia Agricola</i> , 1997 , 54, 121-129	2.5	15
53	Simulating crop-parasitic weed interactions using APSIM: Model evaluation and application. <i>European Journal of Agronomy</i> , 2006 , 24, 257-267	5	15
52	Inferential, Nonparametric Statistics to Assess the Quality of Probabilistic Forecast Systems. <i>Monthly Weather Review</i> , 2007 , 135, 351-362	2.4	15
51	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
50	Barley yellow dwarf viruses: infection mechanisms and breeding strategies. <i>Euphytica</i> , 2017 , 213, 1	2.1	13
49	Modelling crop growth and yield under the environmental changes induced by windbreaks 1. Model development and validation. <i>Australian Journal of Experimental Agriculture</i> , 2002 , 42, 875		13
48	Impacts of climate change and climate variability on the competitiveness of wheat and beef cattle production in Emerald, north-east Australia. <i>Environment International</i> , 2001 , 27, 155-60	12.9	13
47	Using Seasonal Climate Forecasts to Manage Dryland Crops in Northern Australia [Experiences from the 1997/98 Seasons. <i>Atmospheric and Oceanographic Sciences Library</i> , 2000 , 149-165		12
46	Effects of sorghum ergot on grain sorghum production: a preliminary climatic analysis. <i>Australian Journal of Agricultural Research</i> , 1997 , 48, 1241		12
45	Effect of artificial wind shelters on the growth and yield of rainfed crops. <i>Australian Journal of Experimental Agriculture</i> , 2002 , 42, 841		11
44	Examining the yield potential of barley near-isogenic lines using a genotype by environment by management analysis. <i>European Journal of Agronomy</i> , 2019 , 105, 41-51	5	11
43	Improving wheat simulation capabilities in Australia from a cropping systems perspective: water and nitrogen effects on spring wheat in a semi-arid environment. <i>Developments in Crop Science</i> , 1997 , 99-112		10
42	Modelling crop growth and yield under the environmental changes induced by windbreaks. 2. Simulation of potential benefits at selected sites in Australia. <i>Australian Journal of Experimental Agriculture</i> , 2002 , 42, 887		10
41	Crop traits enabling yield gains under more frequent extreme climatic events. <i>Science of the Total Environment</i> , 2021 , 152170	10.2	10
40	The State of the Art in Modeling Waterlogging Impacts on Plants: What Do We Know and What Do We Need to Know. <i>Earth's Future</i> , 2020 , 8, e2020EF001801	7.9	10
39	Microhair on the adaxial leaf surface of salt secreting halophytic <i>Oryza coarctata</i> Roxb. show distinct morphotypes: Isolation for molecular and functional analysis. <i>Plant Science</i> , 2019 , 285, 248-257	5.3	9
38	Probabilistic methods for seasonal forecasting in a changing climate: Cox-type regression models. <i>International Journal of Climatology</i> , 2010 , 30, 2277-2288	3.5	9
37	Towards delivering on the sustainable development goals in greenhouse production systems. <i>Resources, Conservation and Recycling</i> , 2021 , 169, 105379	11.9	9

36	Genome wide association study reveals novel QTL for barley yellow dwarf virus resistance in wheat. <i>BMC Genomics</i> , 2019 , 20, 891	4.5	9
35	Wild barley shows a wider diversity in genes regulating heading date compared with cultivated barley. <i>Euphytica</i> , 2019 , 215, 1	2.1	8
34	Nitrogen Use and Crop Performance of Rice under Aerobic Conditions in a Semiarid Subtropical Environment. <i>Agronomy Journal</i> , 2014 , 106, 199-211	2.2	8
33	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
32	Seasonal and Inter-Annual Climate Forecasting: The New Tool for Increasing Preparedness to Climate Variability and Change in Agricultural Planning and Operations 2005 , 221-253		8
31	Barley yellow dwarf virus infection affects physiology, morphology, grain yield and flour pasting properties of wheat. <i>Crop and Pasture Science</i> , 2019 , 70, 16	2.2	7
30	Cropping systems strategy for effective management of Fusarium wilt in safflower. <i>Field Crops Research</i> , 2014 , 156, 191-198	5.5	7
29	A two-step approach to quantify photothermal effects on pre-flowering rice phenology. <i>Field Crops Research</i> , 2014 , 155, 14-22	5.5	7
28	Genetic factors increasing barley grain yields under soil waterlogging. <i>Food and Energy Security</i> , 2020 , 9, e238	4.1	7
27	Adaptive irrigation infrastructure – Linking insights from human-water interactions and adaptive pathways. <i>Current Opinion in Environmental Sustainability</i> , 2019 , 40, 37-42	7.2	6
26	Farmers' Views on the future prospects of aerobic rice culture in Pakistan. <i>Land Use Policy</i> , 2015 , 42, 517-526	5.26	6
25	A screening method to detect BYDV-PAV resistance in cereals under glasshouse conditions. <i>Plant Pathology</i> , 2018 , 67, 1987-1996	2.8	6
24	Climate change shifts forward flowering and reduces crop waterlogging stress. <i>Environmental Research Letters</i> , 2021 , 16, 094017	6.2	6
23	Strategic double cropping on Vertisols: A viable rainfed cropping option in the Indian SAT to increase productivity and reduce risk. <i>European Journal of Agronomy</i> , 2015 , 62, 26-37	5	5
22	Seasonal climate forecasts and adoption by agriculture. <i>Eos</i> , 2005 , 86, 227	1.5	5
21	Influence of air and soil temperatures on grafted and self-rooted Passiflora hybrids. <i>Scientia Horticulturae</i> , 1990 , 43, 237-246	4.1	5
20	Climate and Security in Asia and the Pacific (Food, Water and Energy). <i>Advances in Global Change Research</i> , 2014 , 129-198	1.2	5
19	Event frequency and severity of sorghum ergot in Australia. <i>Australian Journal of Agricultural Research</i> , 2000 , 51, 457		5

18	Identification of New QTL Contributing to Barley Yellow Dwarf Virus-PAV (BYDV-PAV) Resistance in Wheat. <i>Plant Disease</i> , 2019 , 103, 2798-2803	1.5	4
17	Effect of climate variability on event frequency of sorghum ergot in Australia. <i>Australian Journal of Agricultural Research</i> , 2003 , 54, 599		4
16	Over-Optimistic Projected Future Wheat Yield Potential in the North China Plain: The Role of Future Climate Extremes. <i>Agronomy</i> , 2022 , 12, 145	3.6	4
15	From inferential statistics to climate knowledge. <i>Advances in Geosciences</i> , 6 , 211-216		4
14	Nitrogen availability, water-filled pore space, and N ₂ O-N fluxes after biochar application and nitrogen fertilization. <i>Pesquisa Agropecuaria Brasileira</i> , 2016 , 51, 1203-1212	1.8	4
13	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
12	Participatory Crossover Analysis to Support Discussions about Investments in Irrigation Water Sources. <i>Water (Switzerland)</i> , 2019 , 11, 1318	3	3
11	Prediction of sorghum downy mildew risk in Australia using daily weather data. <i>Australasian Plant Pathology</i> , 2000 , 29, 108	1.4	3
10	Agronomical, biochemical and histological response of resistant and susceptible wheat and barley under BYDV stress. <i>PeerJ</i> , 2018 , 6, e4833	3.1	3
9	Challenges in assessing the regional feasibility of local water storage. <i>Water International</i> , 2019 , 44, 854-870	4.7	2
8	Effects of Seasonal Climate Variability and the Use of Climate Forecasts on Wheat Supply in the United States, Australia, and Canada. <i>ASA Special Publication</i> , 2015 , 101-123	1.1	2
7	Negative relationship between dry matter intake and the temperature-humidity index with increasing heat stress in cattle: a global meta-analysis. <i>International Journal of Biometeorology</i> , 2021 , 65, 2099-2109	3.7	2
6	The role of modeling and systems thinking in contemporary agriculture 2019 , 39-47		1
5	Climate Forecast for Better Water Management in Agriculture: A Case Study for Southern India 2007 , 143-155		1
4	Developing rural community health risk assessments for climate change: a Tasmanian pilot study. <i>Rural and Remote Health</i> , 2015 , 15, 3174	1.3	1
3	Stochastic Model for Simulating Maize Yield. <i>Transactions of the ASABE</i> , 2012 , 55, 1107-1120	0.9	
2	Contingency planning for drought: a case study in coping with agrometeorological risks and uncertainties 2007 , 415-433		
1	Tasmania's Bioeconomy: Employing the Seven Capitals to Sustain Innovative and Entrepreneurial Agrifood Value Chains. <i>Economic Complexity and Evolution</i> , 2017 , 117-139	0.2	

