

Senthold Asseng

List of Publications by Year in Descending Order

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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.

190
papers

13,727
citations

56
h-index

114
g-index

199
ext. papers

16,657
ext. citations

6.5
avg, IF

6.26
L-index

#	Paper	IF	Citations
190	Adaptation of the SIMPLE Model to Oilseed Flax (<i>Linum usitatissimum</i> L.) for Arid and Semi-Arid Environments. <i>Agronomy</i> , 2022 , 12, 1267	3.6	0
189	A wiring diagram to integrate physiological traits of wheat yield potential. <i>Nature Food</i> , 2022 , 3, 318-324	14.4	0
188	Improving Wheat Production and Breeding Strategies Using Crop Models 2022 , 573-591		0
187	Implications of new technologies for future food supply systems. <i>Journal of Agricultural Science</i> , 2021 , 159, 315-319	1	1
186	Separating the impacts of heat stress events from rising mean temperatures on winter wheat yield of China. <i>Environmental Research Letters</i> , 2021 , 16, 124035	6.2	1
185	Evaluation of crop model prediction and uncertainty using Bayesian parameter estimation and Bayesian model averaging. <i>Agricultural and Forest Meteorology</i> , 2021 , 311, 108686	5.8	4
184	Multi-model evaluation of phenology prediction for wheat in Australia. <i>Agricultural and Forest Meteorology</i> , 2021 , 298-299, 108289	5.8	5
183	How well do crop modeling groups predict wheat phenology, given calibration data from the target population?. <i>European Journal of Agronomy</i> , 2021 , 124, 126195	5	11
182	Comparing process-based wheat growth models in their simulation of yield losses caused by plant diseases. <i>Field Crops Research</i> , 2021 , 265, 108108	5.5	3
181	Climate impact and adaptation to heat and drought stress of regional and global wheat production. <i>Environmental Research Letters</i> , 2021 , 16, 054070	6.2	12
180	Large potential for crop production adaptation depends on available future varieties. <i>Global Change Biology</i> , 2021 , 27, 3870-3882	11.4	14
179	Modeling the response of winter wheat phenology to low temperature stress at elongation and booting stages. <i>Agricultural and Forest Meteorology</i> , 2021 , 303, 108376	5.8	4
178	The upper temperature thresholds of life. <i>Lancet Planetary Health</i> , 2021 , 5, e378-e385	9.8	6
177	Modeling growth, development and yield of cassava: A review. <i>Field Crops Research</i> , 2021 , 267, 108140	5.5	3
176	Protocol for life cycle assessment modeling of US fruit and vegetable supply chains- cases of processed potato and tomato products. <i>Data in Brief</i> , 2021 , 34, 106639	1.2	1
175	Extreme lows of wheat production in Brazil. <i>Environmental Research Letters</i> , 2021 , 16, 104025	6.2	0
174	The chaos in calibrating crop models: Lessons learned from a multi-model calibration exercise. <i>Environmental Modelling and Software</i> , 2021 , 145, 105206	5.2	3

173	Sources of uncertainty for wheat yield projections under future climate are site-specific. <i>Nature Food</i> , 2020 , 1, 720-728	14.4	15
172	A regional nuclear conflict would compromise global food security. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 7071-7081	11.5	18
171	Emergent constraint on crop yield response to warmer temperature from field experiments. <i>Nature Sustainability</i> , 2020 , 3, 908-916	22.1	30
170	CGIAR modeling approaches for resource-constrained scenarios: I. Accelerating crop breeding for a changing climate. <i>Crop Science</i> , 2020 , 60, 547-567	2.4	18
169	Importance of genetic parameters and uncertainty of MANIHOT, a new mechanistic cassava simulation model. <i>European Journal of Agronomy</i> , 2020 , 115, 126031	5	5
168	iCROPM 2020: Crop Modeling for the Future. <i>Journal of Agricultural Science</i> , 2020 , 158, 791-793	1	1
167	Different uncertainty distribution between high and low latitudes in modelling warming impacts on wheat. <i>Nature Food</i> , 2020 , 1, 63-69	14.4	17
166	Climate change impacts and adaptations for wheat employing multiple climate and crop models in Pakistan. <i>Climatic Change</i> , 2020 , 163, 253-266	4.5	3
165	Wheat yield potential in controlled-environment vertical farms. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 19131-19135	11.5	32
164	BLIGHTSIM: A New Potato Late Blight Model Simulating the Response of to Diurnal Temperature and Humidity Fluctuations in Relation to Climate Change. <i>Pathogens</i> , 2020 , 9,	4.5	4
163	Modelling the effects of post-heading heat stress on biomass partitioning, and grain number and weight of wheat. <i>Journal of Experimental Botany</i> , 2020 , 71, 6015-6031	7	5
162	Narrowing uncertainties in the effects of elevated CO2 on crops. <i>Nature Food</i> , 2020 , 1, 775-782	14.4	22
161	Testing a crop model with extreme low yields from historical district records. <i>Field Crops Research</i> , 2020 , 249, 107269	5.5	5
160	Towards a multiscale crop modelling framework for climate change adaptation assessment. <i>Nature Plants</i> , 2020 , 6, 338-348	11.5	72
159	Genetic dissection of heat-responsive physiological traits to improve adaptation and increase yield potential in soft winter wheat. <i>BMC Genomics</i> , 2020 , 21, 315	4.5	6
158	A SIMPLE crop model. <i>European Journal of Agronomy</i> , 2019 , 104, 97-106	5	32
157	Adapting irrigated and rainfed wheat to climate change in semi-arid environments: Management, breeding options and land use change. <i>European Journal of Agronomy</i> , 2019 , 109, 125915	5	19
156	Impacts of tropospheric ozone and climate change on Mexico wheat production. <i>Climatic Change</i> , 2019 , 155, 157-174	4.5	8

155	Integrating satellite and climate data to predict wheat yield in Australia using machine learning approaches. <i>Agricultural and Forest Meteorology</i> , 2019 , 274, 144-159	5.8	161
154	Future farms without farmers. <i>Science Robotics</i> , 2019 , 4,	18.6	14
153	Model-Driven Multidisciplinary Global Research to Meet Future Needs: The Case for Improving Radiation Use Efficiency to Increase Yield <i>Crop Science</i> , 2019 , 59, 843-849	2.4	5
152	Simulation Models as Tools for Crop Management 2019 , 433-452		2
151	Modeling the effects of tropospheric ozone on wheat growth and yield. <i>European Journal of Agronomy</i> , 2019 , 105, 13-23	5	11
150	A Crop Simulation Model for Tef (<i>Eragrostis tef</i> (Zucc.) Trotter). <i>Agronomy</i> , 2019 , 9, 817	3.6	0
149	Understanding the Genetic Basis of Spike Fertility to Improve Grain Number, Harvest Index, and Grain Yield in Wheat Under High Temperature Stress Environments. <i>Frontiers in Plant Science</i> , 2019 , 10, 1481	6.2	20
148	Comparing the effects of growing conditions on simulated Ethiopian tef and wheat yields. <i>Agricultural and Forest Meteorology</i> , 2019 , 266-267, 208-220	5.8	2
147	Climate change impact and adaptation for wheat protein. <i>Global Change Biology</i> , 2019 , 25, 155-173	11.4	177
146	Wheat Responses to Climate Change and Its Adaptations: A Focus on Arid and Semi-arid Environment. <i>International Journal of Environmental Research</i> , 2018 , 12, 117-126	2.9	19
145	A review of tef physiology for developing a tef crop model. <i>European Journal of Agronomy</i> , 2018 , 94, 54-66	5	13
144	Australian wheat production expected to decrease by the late 21st century. <i>Global Change Biology</i> , 2018 , 24, 2403-2415	11.4	37
143	How does inter-annual variability of attainable yield affect the magnitude of yield gaps for wheat and maize? An analysis at ten sites. <i>Agricultural Systems</i> , 2018 , 159, 199-208	6.1	25
142	Improving the use of crop models for risk assessment and climate change adaptation. <i>Agricultural Systems</i> , 2018 , 159, 296-306	6.1	82
141	Classifying multi-model wheat yield impact response surfaces showing sensitivity to temperature and precipitation change. <i>Agricultural Systems</i> , 2018 , 159, 209-224	6.1	32
140	Multimodel ensembles improve predictions of crop-environment-management interactions. <i>Global Change Biology</i> , 2018 , 24, 5072-5083	11.4	68
139	Cropping Systems and Climate Change in Humid Subtropical Environments. <i>Agronomy</i> , 2018 , 8, 19	3.6	5
138	Estimating spring frost and its impact on yield across winter wheat in China. <i>Agricultural and Forest Meteorology</i> , 2018 , 260-261, 154-164	5.8	43

137	Global wheat production with 1.5 and 2.0°C above pre-industrial warming. <i>Global Change Biology</i> , 2018 , 25, 1428	11.4	69
136	Climate change impact on global potato production. <i>European Journal of Agronomy</i> , 2018 , 100, 87-98	5	75
135	Physical robustness of canopy temperature models for crop heat stress simulation across environments and production conditions. <i>Field Crops Research</i> , 2018 , 216, 75-88	5.5	22
134	Can Egypt become self-sufficient in wheat?. <i>Environmental Research Letters</i> , 2018 , 13, 094012	6.2	43
133	Soil Organic Carbon and Nitrogen Feedbacks on Crop Yields under Climate Change. <i>Agricultural and Environmental Letters</i> , 2018 , 3, 180026	1.5	20
132	Climate change impact on Mexico wheat production. <i>Agricultural and Forest Meteorology</i> , 2018 , 263, 373-387	5.8	43
131	Irrigation method and application timing effect on potato nitrogen fertilizer uptake efficiency. <i>Nutrient Cycling in Agroecosystems</i> , 2018 , 112, 253-264	3.3	7
130	Canopy temperature for simulation of heat stress in irrigated wheat in a semi-arid environment: A multi-model comparison. <i>Field Crops Research</i> , 2017 , 202, 21-35	5.5	68
129	Performance of the SUBSTOR-potato model across contrasting growing conditions. <i>Field Crops Research</i> , 2017 , 202, 57-76	5.5	48
128	Simulating the impact of source-sink manipulations in wheat. <i>Field Crops Research</i> , 2017 , 202, 47-56	5.5	31
127	Crop model improvement reduces the uncertainty of the response to temperature of multi-model ensembles. <i>Field Crops Research</i> , 2017 , 202, 5-20	5.5	70
126	Comparing estimates of climate change impacts from process-based and statistical crop models. <i>Environmental Research Letters</i> , 2017 , 12, 015001	6.2	133
125	Modification of the CERES grain sorghum model to simulate optimum sweet sorghum rooting depth for rainfed production on coarse textured soils in a sub-tropical environment. <i>Agricultural Water Management</i> , 2017 , 181, 47-55	5.9	13
124	Contribution of Crop Models to Adaptation in Wheat. <i>Trends in Plant Science</i> , 2017 , 22, 472-490	13.1	110
123	Modelling wheat yield change under CO2 increase, heat and water stress in relation to plant available water capacity in eastern Australia. <i>European Journal of Agronomy</i> , 2017 , 90, 152-161	5	29
122	Modelling the effects of post-heading heat stress on biomass growth of winter wheat. <i>Agricultural and Forest Meteorology</i> , 2017 , 247, 476-490	5.8	20
121	An AgMIP framework for improved agricultural representation in IAMs. <i>Environmental Research Letters</i> , 2017 , 12,	6.2	33
120	The uncertainty of crop yield projections is reduced by improved temperature response functions. <i>Nature Plants</i> , 2017 , 3, 17102	11.5	95

119	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
118	Temperature increase reduces global yields of major crops in four independent estimates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 9326-9331	11.5	886
117	Hot spots of wheat yield decline with rising temperatures. <i>Global Change Biology</i> , 2017 , 23, 2464-2472	11.4	54
116	Baseline simulation for global wheat production with CIMMYT mega-environment specific cultivars. <i>Field Crops Research</i> , 2017 , 202, 122-135	5.5	29
115	A potato model intercomparison across varying climates and productivity levels. <i>Global Change Biology</i> , 2017 , 23, 1258-1281	11.4	64
114	Spatiotemporal changes in wheat phenology, yield and water use efficiency under the CMIP5 multimodel ensemble projections in eastern Australia. <i>Climate Research</i> , 2017 , 72, 83-99	1.6	28
113	Using historical climate observations to understand future climate change crop yield impacts in the Southeastern US. <i>Climatic Change</i> , 2016 , 134, 311-326	4.5	7
112	Uncertainty of wheat water use: Simulated patterns and sensitivity to temperature and CO2. <i>Field Crops Research</i> , 2016 , 198, 80-92	5.5	36
111	Lessons from climate modeling on the design and use of ensembles for crop modeling. <i>Climatic Change</i> , 2016 , 139, 551-564	4.5	47
110	Similar estimates of temperature impacts on global wheat yield by three independent methods. <i>Nature Climate Change</i> , 2016 , 6, 1130-1136	21.4	233
109	The value of seasonal forecasts for irrigated, supplementary irrigated, and rainfed wheat cropping systems in northwest Mexico. <i>Agricultural Systems</i> , 2016 , 147, 76-86	6.1	19
108	Spatial sampling of weather data for regional crop yield simulations. <i>Agricultural and Forest Meteorology</i> , 2016 , 220, 101-115	5.8	27
107	Simulating cultivar variations in potato yields for contrasting environments. <i>Agricultural Systems</i> , 2016 , 145, 51-63	6.1	25
106	Modelling the effects of heat stress on post-heading durations in wheat: A comparison of temperature response routines. <i>Agricultural and Forest Meteorology</i> , 2016 , 222, 45-58	5.8	28
105	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
104	Is a 10-day rainfall forecast of value in dry-land wheat cropping?. <i>Agricultural and Forest Meteorology</i> , 2016 , 216, 170-176	5.8	16
103	Impact of Spatial Soil and Climate Input Data Aggregation on Regional Yield Simulations. <i>PLoS ONE</i> , 2016 , 11, e0151782	3.7	60
102	Testing the responses of four wheat crop models to heat stress at anthesis and grain filling. <i>Global Change Biology</i> , 2016 , 22, 1890-903	11.4	73

101	Multi-wheat-model ensemble responses to interannual climate variability. <i>Environmental Modelling and Software</i> , 2016 , 81, 86-101	5.2	38
100	Performance of DSSAT-Nwheat across a wide range of current and future growing conditions. <i>European Journal of Agronomy</i> , 2016 , 81, 27-36	5	37
99	Estimating model prediction error: Should you treat predictions as fixed or random?. <i>Environmental Modelling and Software</i> , 2016 , 84, 529-539	5.2	19
98	Impact of climate change on wheat flowering time in eastern Australia. <i>Agricultural and Forest Meteorology</i> , 2015 , 209-210, 11-21	5.8	59
97	A statistical analysis of three ensembles of crop model responses to temperature and CO2 concentration. <i>Agricultural and Forest Meteorology</i> , 2015 , 214-215, 483-493	5.8	25
96	The AgMIP Coordinated Climate-Crop Modeling Project (C3MP): Methods and Protocols. <i>ICP Series on Climate Change Impacts, Adaptation, and Mitigation</i> , 2015 , 191-220		9
95	Effects of climate trends and variability on wheat yield variability in eastern Australia. <i>Climate Research</i> , 2015 , 64, 173-186	1.6	23
94	Uncertainties in Scaling-Up Crop Models for Large-Area Climate Change Impact Assessments. <i>ICP Series on Climate Change Impacts, Adaptation, and Mitigation</i> , 2015 , 261-277		8
93	Statistical Analysis of Large Simulated Yield Datasets for Studying Climate Effects. <i>ICP Series on Climate Change Impacts, Adaptation, and Mitigation</i> , 2015 , 279-295		2
92	Rising temperatures reduce global wheat production. <i>Nature Climate Change</i> , 2015 , 5, 143-147	21.4	1048
91	Multimodel ensembles of wheat growth: many models are better than one. <i>Global Change Biology</i> , 2015 , 21, 911-25	11.4	292
90	Crop modeling for climate change impact and adaptation 2015 , 505-546		19
89	Impacts of recent climate warming, cultivar changes, and crop management on winter wheat phenology across the Loess Plateau of China. <i>Agricultural and Forest Meteorology</i> , 2015 , 200, 135-143	5.8	114
88	Response of wheat growth, grain yield and water use to elevated CO under a Free-Air CO Enrichment (FACE) experiment and modelling in a semi-arid environment. <i>Global Change Biology</i> , 2015 , 21, 2670-2686	11.4	135
87	Uncertainties of Climate Change Impacts in Agriculture. <i>Procedia Environmental Sciences</i> , 2015 , 29, 304		5
86	Crop modelling for integrated assessment of risk to food production from climate change. <i>Environmental Modelling and Software</i> , 2015 , 72, 287-303	5.2	171
85	Does decadal climate variation influence wheat and maize production in the southeast USA?. <i>Agricultural and Forest Meteorology</i> , 2015 , 204, 1-9	5.8	16
84	Exploring climate change impacts and adaptation options for maize production in the Central Rift Valley of Ethiopia using different climate change scenarios and crop models. <i>Climatic Change</i> , 2015 , 129, 145-158	4.5	66

83	Benchmark data set for wheat growth models: field experiments and AgMIP multi-model simulations 2015 , 1, 1-5		6
82	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
81	Temperature and precipitation effects on wheat yield across a European transect: a crop model ensemble analysis using impact response surfaces. <i>Climate Research</i> , 2015 , 65, 87-105	1.6	91
80	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
79	Potato, sweet potato, and yam models for climate change: A review. <i>Field Crops Research</i> , 2014 , 166, 173-185	5.5	52
78	Post-heading heat stress and yield impact in winter wheat of China. <i>Global Change Biology</i> , 2014 , 20, 372-81	11.4	83
77	Simulation Modeling: Applications in Cropping Systems 2014 , 102-112		12
76	Tailoring wheat management to ENSO phases for increased wheat production in Paraguay. <i>Climate Risk Management</i> , 2014 , 3, 24-38	4.6	8
75	Climate variability and change in the Central Rift Valley of Ethiopia: challenges for rainfed crop production. <i>Journal of Agricultural Science</i> , 2014 , 152, 58-74	1	61
74	Climate-induced yield variability and yield gaps of maize (<i>Zea mays</i> L.) in the Central Rift Valley of Ethiopia. <i>Field Crops Research</i> , 2014 , 160, 41-53	5.5	69
73	Uncertainty in simulating wheat yields under climate change. <i>Nature Climate Change</i> , 2013 , 3, 827-832	21.4	827
72	Optimizing triticale sowing densities across the Mediterranean Basin. <i>Field Crops Research</i> , 2013 , 144, 167-178	5.5	3
71	Adapting to climate variability and change: experiences from cereal-based farming in the central rift and Kobo Valleys, Ethiopia. <i>Environmental Management</i> , 2013 , 52, 1115-31	3.1	65
70	Adapting dryland agriculture to climate change: Farming implications and research and development needs in Western Australia. <i>Climatic Change</i> , 2013 , 118, 167-181	4.5	52
69	Quantifying the interactive impacts of global dimming and warming on wheat yield and water use in China. <i>Agricultural and Forest Meteorology</i> , 2013 , 182-183, 342-351	5.8	35
68	Influences of increasing temperature on Indian wheat: quantifying limits to predictability. <i>Environmental Research Letters</i> , 2013 , 8, 034016	6.2	31
67	The Agricultural Model Intercomparison and Improvement Project (AgMIP): Protocols and pilot studies. <i>Agricultural and Forest Meteorology</i> , 2013 , 170, 166-182	5.8	573
66	Has climate change opened new opportunities for wheat cropping in Argentina?. <i>Climatic Change</i> , 2013 , 117, 181-196	4.5	14

65	Evaluating the fidelity of downscaled climate data on simulated wheat and maize production in the southeastern US. <i>Regional Environmental Change</i> , 2013 , 13, 101-110	4.3	13
64	Putting mechanisms into crop production models. <i>Plant, Cell and Environment</i> , 2013 , 36, 1658-72	8.4	123
63	Agriculture and Climate Change in the Southeast USA 2013 , 128-164		0
62	Optimal N fertiliser management based on a seasonal forecast. <i>European Journal of Agronomy</i> , 2012 , 38, 66-73	5	56
61	Adaptation of grain legumes to climate change: a review. <i>Agronomy for Sustainable Development</i> , 2012 , 32, 31-44	6.8	111
60	Managing mixed wheat/sheep farms with a seasonal forecast. <i>Agricultural Systems</i> , 2012 , 113, 50-56	6.1	18
59	'Blaying-off' in wheat is predicted to increase under a future climate in south-eastern Australia. <i>Crop and Pasture Science</i> , 2012 , 63, 593	2.2	18
58	The impact of temperature variability on wheat yields. <i>Global Change Biology</i> , 2011 , 17, 997-1012	11.4	575
57	Yield benefits of triticale traits for wheat under current and future climates. <i>Field Crops Research</i> , 2011 , 124, 14-24	5.5	29
56	Eco-efficient Agriculture: Concepts, Challenges, and Opportunities. <i>Crop Science</i> , 2010 , 50, S-109-S-119	2.4	172
55	Potential benefits of early vigor and changes in phenology in wheat to adapt to warmer and drier climates. <i>Agricultural Systems</i> , 2010 , 103, 127-136	6.1	90
54	Rainfall/human/spatial interactions in a salinity-prone agricultural region of the Western Australian wheat-belt. <i>Ecological Modelling</i> , 2010 , 221, 812-824	3	10
53	Impacts of recent climate change on wheat production systems in Western Australia. <i>Climatic Change</i> , 2009 , 92, 495-517	4.5	65
52	Optimising sowing date of durum wheat in a variable Mediterranean environment. <i>Field Crops Research</i> , 2009 , 111, 109-118	5.5	85
51	Plant available soil water at sowing in Mediterranean environments: is it a useful criterion to aid nitrogen fertiliser and sowing decisions?. <i>Field Crops Research</i> , 2009 , 114, 127-136	5.5	42
50	Crop Physiology, Modelling and Climate Change 2009 , 511-543		15
49	A Simulation Analysis on Climate Change Threats or Opportunities for Agriculture 2009 , 277-281		1
48	The potential value of seasonal forecasts of rainfall categories: case studies from the wheatbelt in Western Australia's Mediterranean region. <i>Agricultural and Forest Meteorology</i> , 2008 , 148, 606-618	5.8	40

47	Systems analysis of wheat production on low water-holding soils in a Mediterranean-type environment. <i>Field Crops Research</i> , 2008 , 105, 97-106	5.5	26
46	Systems analysis of wheat production on low water-holding soils in a Mediterranean-type environment. <i>Field Crops Research</i> , 2008 , 107, 211-220	5.5	15
45	Mapping subsoil acidity and shallow soil across a field with information from yield maps, geophysical sensing and the grower. <i>Precision Agriculture</i> , 2008 , 9, 3-15	5.6	29
44	Optimizing wheat productivity in two rain-fed environments of the West Asia-North Africa region using a simulation model. <i>European Journal of Agronomy</i> , 2007 , 26, 121-129	5	60
43	Yield and environmental benefits of ameliorating subsoil constraints under variable rainfall in a Mediterranean environment. <i>Plant and Soil</i> , 2007 , 297, 29-42	4.2	36
42	Water excess under simulated lucerne - wheat phased systems in Western Australia. <i>Australian Journal of Agricultural Research</i> , 2007 , 58, 826		4
41	High ear number is key to achieving high wheat yields in the high-rainfall zone of south-western Australia. <i>Australian Journal of Agricultural Research</i> , 2007 , 58, 21		21
40	Reliability of canola production in different rainfall zones of Western Australia. <i>Australian Journal of Agricultural Research</i> , 2007 , 58, 326		15
39	Trade-off between wheat yield and drainage under current and climate change conditions in northeast Germany. <i>European Journal of Agronomy</i> , 2006 , 24, 333-342	5	41
38	Simulation of environmental and genetic effects on grain protein concentration in wheat. <i>European Journal of Agronomy</i> , 2006 , 25, 119-128	5	42
37	Climate change impacts on wheat production in a Mediterranean environment in Western Australia. <i>Agricultural Systems</i> , 2006 , 90, 159-179	6.1	140
36	Determining the Causes of Spatial and Temporal Variability of Wheat Yields at Sub-field Scale Using a New Method of Upscaling a Crop Model. <i>Plant and Soil</i> , 2006 , 283, 203-215	4.2	88
35	A flexible approach to managing variability in grain yield and nitrate leaching at within-field to farm scales. <i>Precision Agriculture</i> , 2006 , 7, 405-417	5.6	26
34	Consequences of rainfall during summer - autumn fallow on available soil water and subsequent drainage in annual-based cropping systems. <i>Australian Journal of Agricultural Research</i> , 2006 , 57, 281		24
33	Simulating lucerne growth and water use on diverse soil types in a Mediterranean-type environment. <i>Australian Journal of Agricultural Research</i> , 2005 , 56, 503		32
32	Productivity, sustainability, and rainfall-use efficiency in Australian rainfed Mediterranean agricultural systems. <i>Australian Journal of Agricultural Research</i> , 2005 , 56, 1123		101
31	Soil water extraction and biomass production by lucerne in the south of Western Australia. <i>Australian Journal of Agricultural Research</i> , 2005 , 56, 389		28
30	Simulated wheat growth affected by rising temperature, increased water deficit and elevated atmospheric CO ₂ . <i>Field Crops Research</i> , 2004 , 85, 85-102	5.5	215

29	Simulating lupin development, growth, and yield in a Mediterranean environment. <i>Australian Journal of Agricultural Research</i> , 2004 , 55, 863		25
28	Spatial Growth and Nitrogen Uptake Variability of Corn at Two Nitrogen Levels. <i>Agronomy Journal</i> , 2003 , 95, 10	2.2	54
27	Estimating spatially variable deep drainage across a central-eastern wheatbelt catchment, Western Australia. <i>Australian Journal of Agricultural Research</i> , 2003 , 54, 789		13
26	Modelling yield losses of aluminium-resistant and aluminium-sensitive wheat due to subsurface soil acidity: effects of rainfall, liming and nitrogen application. <i>Plant and Soil</i> , 2003 , 254, 349-360	4.2	30
25	Analysis of the benefits to wheat yield from assimilates stored prior to grain filling in a range of environments*. <i>Plant and Soil</i> , 2003 , 256, 217-229	4.2	115
24	An overview of APSIM, a model designed for farming systems simulation. <i>European Journal of Agronomy</i> , 2003 , 18, 267-288	5	1689
23	Sensitivity of productivity and deep drainage of wheat cropping systems in a Mediterranean environment to changes in CO ₂ , temperature and precipitation. <i>Agriculture, Ecosystems and Environment</i> , 2003 , 97, 255-273	5.7	107
22	Simulation of grain protein content with APSIM-Nwheat. <i>European Journal of Agronomy</i> , 2002 , 16, 25-42	5	79
21	A simulation analysis that predicts the influence of physiological traits on the potential yield of wheat. <i>European Journal of Agronomy</i> , 2002 , 17, 123-141	5	52
20	Simulating phenology and yield response of canola to sowing date in Western Australia using the APSIM model. <i>Australian Journal of Agricultural Research</i> , 2002 , 53, 1155		63
19	Environmental and genotypic control of time to flowering in canola and Indian mustard. <i>Australian Journal of Agricultural Research</i> , 2002 , 53, 793		54
18	Analysis of water- and nitrogen-use efficiency of wheat in a Mediterranean climate. <i>Plant and Soil</i> , 2001 , 233, 127-143	4.2	133
17	An analysis of the frequency and timing of false break events in the Mediterranean region of Western Australia. <i>Australian Journal of Agricultural Research</i> , 2001 , 52, 367		18
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