

Graeme Hammer

List of Publications by Citations

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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.

191 papers	12,444 citations	58 h-index	107 g-index
206 ext. papers	14,806 ext. citations	5.1 avg, IF	6.36 L-index

#	Paper	IF	Citations
191	APSIM Evolution towards a new generation of agricultural systems simulation. <i>Environmental Modelling and Software</i> , 2014 , 62, 327-350	5.2	809
190	Greater sensitivity to drought accompanies maize yield increase in the U.S. Midwest. <i>Science</i> , 2014 , 344, 516-9	33.3	567
189	The critical role of extreme heat for maize production in the United States. <i>Nature Climate Change</i> , 2013 , 3, 497-501	21.4	517
188	Can Changes in Canopy and/or Root System Architecture Explain Historical Maize Yield Trends in the U.S. Corn Belt?. <i>Crop Science</i> , 2009 , 49, 299-312	2.4	462
187	The role of root architectural traits in adaptation of wheat to water-limited environments. <i>Functional Plant Biology</i> , 2006 , 33, 823-837	2.7	418
186	Models for navigating biological complexity in breeding improved crop plants. <i>Trends in Plant Science</i> , 2006 , 11, 587-93	13.1	291
185	Genotypic variation in seedling root architectural traits and implications for drought adaptation in wheat (<i>Triticum aestivum</i> L.). <i>Plant and Soil</i> , 2008 , 303, 115-129	4.2	279
184	Prediction of global rainfall probabilities using phases of the Southern Oscillation Index. <i>Nature</i> , 1996 , 384, 252-255	50.4	272
183	Does Maintaining Green Leaf Area in Sorghum Improve Yield under Drought? II. Dry Matter Production and Yield. <i>Crop Science</i> , 2000 , 40, 1037-1048	2.4	254
182	Stay-green: A consequence of the balance between supply and demand for nitrogen during grain filling?. <i>Annals of Applied Biology</i> , 2001 , 138, 91-95	2.6	218
181	Adapting APSIM to model the physiology and genetics of complex adaptive traits in field crops. <i>Journal of Experimental Botany</i> , 2010 , 61, 2185-202	7	217
180	Drought adaptation of stay-green sorghum is associated with canopy development, leaf anatomy, root growth, and water uptake. <i>Journal of Experimental Botany</i> , 2014 , 65, 6251-63	7	195
179	Environment characterization as an aid to wheat improvement: interpreting genotype-environment interactions by modelling water-deficit patterns in North-Eastern Australia. <i>Journal of Experimental Botany</i> , 2011 , 62, 1743-55	7	194
178	Nitrogen Dynamics and the Physiological Basis of Stay-Green in Sorghum. <i>Crop Science</i> , 2000 , 40, 1295-1307	10.7	177
177	QTL for nodal root angle in sorghum (<i>Sorghum bicolor</i> L. Moench) co-locate with QTL for traits associated with drought adaptation. <i>Theoretical and Applied Genetics</i> , 2012 , 124, 97-109	6	175
176	Simulating the yield impacts of organ-level quantitative trait loci associated with drought response in maize: a "gene-to-phenotype" modeling approach. <i>Genetics</i> , 2009 , 183, 1507-23	4	175
175	The shifting influence of drought and heat stress for crops in northeast Australia. <i>Global Change Biology</i> , 2015 , 21, 4115-27	11.4	173

174	Potential yield and water-use efficiency benefits in sorghum from limited maximum transpiration rate. <i>Functional Plant Biology</i> , 2005 , 32, 945-952	2.7	172
173	Does Maintaining Green Leaf Area in Sorghum Improve Yield under Drought? I. Leaf Growth and Senescence. <i>Crop Science</i> , 2000 , 40, 1026-1037	2.4	153
172	Characterizing drought stress and trait influence on maize yield under current and future conditions. <i>Global Change Biology</i> , 2014 , 20, 867-78	11.4	145
171	The role of physiological understanding in plant breeding; from a breeding perspective. <i>Field Crops Research</i> , 1996 , 49, 11-37	5.5	144
170	Evaluating Plant Breeding Strategies by Simulating Gene Action and Dryland Environment Effects. <i>Agronomy Journal</i> , 2003 , 95, 99	2.2	140
169	Genotype by environment interactions affecting grain sorghum. II. Frequencies of different seasonal patterns of drought stress are related to location effects on hybrid yields. <i>Australian Journal of Agricultural Research</i> , 2000 , 51, 209		132
168	Variation in Crop Radiation-Use Efficiency with Increased Diffuse Radiation. <i>Crop Science</i> , 1992 , 32, 1281-1284	12.84	129
167	Trait physiology and crop modelling as a framework to link phenotypic complexity to underlying genetic systems. <i>Australian Journal of Agricultural Research</i> , 2005 , 56, 947		126
166	Quantifying impacts of enhancing photosynthesis on crop yield. <i>Nature Plants</i> , 2019 , 5, 380-388	11.5	125
165	Modeling QTL for complex traits: detection and context for plant breeding. <i>Current Opinion in Plant Biology</i> , 2009 , 12, 231-40	9.9	125
164	Developmental and physiological traits associated with high yield and stay-green phenotype in wheat. <i>Australian Journal of Agricultural Research</i> , 2008 , 59, 354		122
163	QTL for root angle and number in a population developed from bread wheats (<i>Triticum aestivum</i>) with contrasting adaptation to water-limited environments. <i>Theoretical and Applied Genetics</i> , 2013 , 126, 1563-74	6	120
162	Stay-green alleles individually enhance grain yield in sorghum under drought by modifying canopy development and water uptake patterns. <i>New Phytologist</i> , 2014 , 203, 817-30	9.8	119
161	Limited-Transpiration Trait May Increase Maize Drought Tolerance in the US Corn Belt. <i>Agronomy Journal</i> , 2015 , 107, 1978-1986	2.2	110
160	Morphological and architectural development of root systems in sorghum and maize. <i>Plant and Soil</i> , 2010 , 333, 287-299	4.2	110
159	Short-term responses of leaf growth rate to water deficit scale up to whole-plant and crop levels: an integrated modelling approach in maize. <i>Plant, Cell and Environment</i> , 2008 , 31, 378-91	8.4	103
158	On systems thinking, systems biology, and the in silico plant. <i>Plant Physiology</i> , 2004 , 134, 909-11	6.6	103
157	Improving Genotypic Adaptation in Crops: A Role for Breeders, Physiologists and Modellers. <i>Experimental Agriculture</i> , 1991 , 27, 155-175	1.7	102

156	A Sunflower Simulation Model: I. Model Development. <i>Agronomy Journal</i> , 1993 , 85, 725-735	2.2	101
155	Temperature effect on transpiration response of maize plants to vapour pressure deficit. <i>Environmental and Experimental Botany</i> , 2012 , 78, 157-162	5.9	96
154	Crop design for specific adaptation in variable dryland production environments. <i>Crop and Pasture Science</i> , 2014 , 65, 614	2.2	92
153	Stay-green quantitative trait loci's effects on water extraction, transpiration efficiency and seed yield depend on recipient parent background. <i>Functional Plant Biology</i> , 2011 , 38, 553-566	2.7	87
152	Genotype by environment interactions affecting grain sorghum. III. Temporal sequences and spatial patterns in the target population of environments. <i>Australian Journal of Agricultural Research</i> , 2000 , 51, 223		85
151	Water Use Efficiency as a Constraint and Target for Improving the Resilience and Productivity of C and C Crops. <i>Annual Review of Plant Biology</i> , 2019 , 70, 781-808	30.7	84
150	Multi-Spectral Imaging from an Unmanned Aerial Vehicle Enables the Assessment of Seasonal Leaf Area Dynamics of Sorghum Breeding Lines. <i>Frontiers in Plant Science</i> , 2017 , 8, 1532	6.2	82
149	Predicting Maize Phenology: Intercomparison of Functions for Developmental Response to Temperature. <i>Agronomy Journal</i> , 2014 , 106, 2087-2097	2.2	81
148	Physiological determinants of maize and sunflower grain yield as affected by nitrogen supply. <i>Field Crops Research</i> , 2009 , 113, 256-267	5.5	81
147	Using crop simulation to generate genotype by environment interaction effects for sorghum in water-limited environments. <i>Australian Journal of Agricultural Research</i> , 2002 , 53, 379		77
146	Functional dynamics of the nitrogen balance of sorghum. II. Grain filling period. <i>Field Crops Research</i> , 2010 , 115, 29-38	5.5	74
145	VERNALIZATION1 Modulates Root System Architecture in Wheat and Barley. <i>Molecular Plant</i> , 2018 , 11, 226-229	14.4	73
144	Tillering in grain sorghum over a wide range of population densities: identification of a common hierarchy for tiller emergence, leaf area development and fertility. <i>Annals of Botany</i> , 2002 , 90, 87-98	4.1	73
143	Towards a multiscale crop modelling framework for climate change adaptation assessment. <i>Nature Plants</i> , 2020 , 6, 338-348	11.5	72
142	Functional dynamics of the nitrogen balance of sorghum: I. N demand of vegetative plant parts. <i>Field Crops Research</i> , 2010 , 115, 19-28	5.5	69
141	Modeling chickpea growth and development: Phenological development. <i>Field Crops Research</i> , 2006 , 99, 1-13	5.5	68
140	Sorghum genotypes differ in high temperature responses for seed set. <i>Field Crops Research</i> , 2015 , 171, 32-40	5.5	65
139	Robust features of future climate change impacts on sorghum yields in West Africa. <i>Environmental Research Letters</i> , 2014 , 9, 104006	6.2	64

138	Spatial and temporal patterns in Australian wheat yield and their relationship with ENSO. <i>Australian Journal of Agricultural Research</i> , 2002 , 53, 77		63
137	Frost in Northeast Australia: Trends and Influences of Phases of the Southern Oscillation. <i>Journal of Climate</i> , 1996 , 9, 1896-1909	4.4	63
136	Adaptation of sorghum: characterisation of genotypic flowering responses to temperature and photoperiod. <i>Theoretical and Applied Genetics</i> , 1999 , 99, 900-911	6	62
135	Modelling the effect of plant water use traits on yield and stay-green expression in sorghum. <i>Functional Plant Biology</i> , 2014 , 41, 1019-1034	2.7	61
134	Rainfall Variability at Decadal and Longer Time Scales: Signal or Noise?. <i>Journal of Climate</i> , 2005 , 18, 89-96	4.4	60
133	Radiation use efficiency increases when the diffuse component of incident radiation is enhanced under shade. <i>Australian Journal of Agricultural Research</i> , 1998 , 49, 665		58
132	Regulation of tillering in sorghum: environmental effects. <i>Annals of Botany</i> , 2010 , 106, 57-67	4.1	57
131	Experimental and modelling studies of drought-adaptive root architectural traits in wheat (<i>Triticum aestivum</i> L.). <i>Plant Biosystems</i> , 2010 , 144, 458-462	1.6	56
130	On the extent of genetic variation for transpiration efficiency in sorghum. <i>Australian Journal of Agricultural Research</i> , 1997 , 48, 649		56
129	Tillering in grain sorghum over a wide range of population densities: modelling dynamics of tiller fertility. <i>Annals of Botany</i> , 2002 , 90, 99-110	4.1	56
128	Genotype-by-Environment Interaction in Grain Sorghum. II. Effects of Temperature and Photoperiod on Ontogeny. <i>Crop Science</i> , 1989 , 29, 376	2.4	55
127	Modelling the effects of row configuration on sorghum yield reliability in north-eastern Australia. <i>Australian Journal of Agricultural Research</i> , 2005 , 56, 11		54
126	Pre-anthesis ovary development determines genotypic differences in potential kernel weight in sorghum. <i>Journal of Experimental Botany</i> , 2009 , 60, 1399-408	7	51
125	A Peanut Simulation Model: I. Model Development and Testing. <i>Agronomy Journal</i> , 1995 , 87, 1085-1093	2.2	50
124	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
123	Genetic Variability and Control of Nodal Root Angle in Sorghum. <i>Crop Science</i> , 2011 , 51, 2011-2020	2.4	49
122	Genotype and Water Limitation Effects on Phenology, Growth, and Transpiration Efficiency in Grain Sorghum. <i>Crop Science</i> , 1992 , 32, 781-786	2.4	49
121	Drought stress characterization of post-rainy season (rabi) sorghum in India. <i>Field Crops Research</i> , 2013 , 141, 38-46	5.5	48

120	Modelling environmental effects on phenology and canopy development of diverse sorghum genotypes. <i>Field Crops Research</i> , 2009 , 111, 157-165	5.5	48
119	Improved methods for predicting individual leaf area and leaf senescence in maize (<i>Zea mays</i>). <i>Australian Journal of Agricultural Research</i> , 1998 , 49, 249		48
118	Genetic control of nodal root angle in sorghum and its implications on water extraction. <i>European Journal of Agronomy</i> , 2012 , 42, 3-10	5	46
117	Modelling Crop Improvement in a GEM Framework via Gene-Trait-Phenotype Relationships 2009 , 235-581		46
116	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
115	Does Increased Leaf Appearance Rate Enhance Adaptation to Postanthesis Drought Stress in Sorghum?. <i>Crop Science</i> , 2011 , 51, 2728-2740	2.4	45
114	A simple regional-scale model for forecasting sorghum yield across North-Eastern Australia. <i>Agricultural and Forest Meteorology</i> , 2005 , 132, 143-153	5.8	45
113	Modelling the nitrogen dynamics of maize crops [Enhancing the APSIM maize model. <i>European Journal of Agronomy</i> , 2018 , 100, 118-131	5	44
112	Genetic variability in high temperature effects on seed-set in sorghum. <i>Functional Plant Biology</i> , 2013 , 40, 439-448	2.7	44
111	Estimating crop area using seasonal time series of Enhanced Vegetation Index from MODIS satellite imagery. <i>Australian Journal of Agricultural Research</i> , 2007 , 58, 316		44
110	Connecting Biochemical Photosynthesis Models with Crop Models to Support Crop Improvement. <i>Frontiers in Plant Science</i> , 2016 , 7, 1518	6.2	44
109	Determination of grain number in sorghum. <i>Field Crops Research</i> , 2008 , 108, 259-268	5.5	43
108	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
107	Regulation of tillering in sorghum: genotypic effects. <i>Annals of Botany</i> , 2010 , 106, 69-78	4.1	42
106	Integrating modelling and phenotyping approaches to identify and screen complex traits: transpiration efficiency in cereals. <i>Journal of Experimental Botany</i> , 2018 , 69, 3181-3194	7	41
105	Genotype and Environment Effects on Dynamics of Harvest Index during Grain Filling in Sorghum. <i>Agronomy Journal</i> , 2003 , 95, 199	2.2	41
104	On measuring quality of a probabilistic commodity forecast for a system that incorporates seasonal climate forecasts. <i>International Journal of Climatology</i> , 2003 , 23, 1195-1210	3.5	41
103	The GP problem: quantifying gene-to-phenotype relationships. <i>In Silico Biology</i> , 2002 , 2, 151-64	2	41

102	Effect of Radiation Environment on Radiation Use Efficiency and Growth of Sunflower. <i>Crop Science</i> , 1997 , 37, 1208-1214	2.4	40
101	Effect of Specific Leaf Nitrogen on Radiation Use Efficiency and Growth of Sunflower. <i>Crop Science</i> , 1997 , 37, 1201-1208	2.4	40
100	Predicting Wheat Yield at the Field Scale by Combining High-Resolution Sentinel-2 Satellite Imagery and Crop Modelling. <i>Remote Sensing</i> , 2020 , 12, 1024	5	39
99	Soil water capture trends over 50 years of single-cross maize (<i>Zea mays</i> L.) breeding in the US corn-belt. <i>Journal of Experimental Botany</i> , 2015 , 66, 7339-46	7	39
98	Carbon isotope discrimination varies genetically in c(4) species. <i>Plant Physiology</i> , 1990 , 92, 534-7	6.6	39
97	A physiological framework to explain genetic and environmental regulation of tillering in sorghum. <i>New Phytologist</i> , 2014 , 203, 155-67	9.8	38
96	Exploring profit Sustainability trade-offs in cropping systems using evolutionary algorithms. <i>Environmental Modelling and Software</i> , 2006 , 21, 1368-1374	5.2	37
95	Designing crops for adaptation to the drought and high-temperature risks anticipated in future climates. <i>Crop Science</i> , 2020 , 60, 605-621	2.4	34
94	Integrating genetic gain and gap analysis to predict improvements in crop productivity. <i>Crop Science</i> , 2020 , 60, 582-604	2.4	34
93	Development of a phenotyping platform for high throughput screening of nodal root angle in sorghum. <i>Plant Methods</i> , 2017 , 13, 56	5.8	31
92	Decrease in sorghum grain yield due to the dw3 dwarfing gene is caused by reduction in shoot biomass. <i>Field Crops Research</i> , 2011 , 124, 231-239	5.5	31
91	Biological reality and parsimony in crop modelsWhy we need both in crop improvement!. <i>In Silico Plants</i> , 2019 , 1,	3.2	31
90	Simulating daily field crop canopy photosynthesis: an integrated software package. <i>Functional Plant Biology</i> , 2018 , 45, 362-377	2.7	31
89	Physiological determinants of high yielding ultra-narrow row cotton: Canopy development and radiation use efficiency. <i>Field Crops Research</i> , 2013 , 148, 86-94	5.5	30
88	On the dynamic determinants of reproductive failure under drought in maize. <i>In Silico Plants</i> , 2019 , 1,	3.2	29
87	QTL analysis in multiple sorghum populations facilitates the dissection of the genetic and physiological control of tillering. <i>Theoretical and Applied Genetics</i> , 2014 , 127, 2253-66	6	29
86	Prediction of Sweet Corn Phenology in Subtropical Environments. <i>Agronomy Journal</i> , 1993 , 85, 410-415	2.2	29
85	Yield trends under varying environmental conditions for sorghum and wheat across Australia. <i>Agricultural and Forest Meteorology</i> , 2016 , 228-229, 276-285	5.8	28

84	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
83	Genotype and Water Limitation Effects on Transpiration Efficiency in Sorghum. <i>The Journal of Crop Improvement: Innovations in Practice and Research</i> , 2000 , 2, 265-286		26
82	Genotype-by-Environment Interaction in Grain Sorghum I. Effects of Temperature on Radiation Use Efficiency. <i>Crop Science</i> , 1989 , 29, 370	2.4	26
81	Environmental control of potential yield of sunflower in the subtropics. <i>Australian Journal of Agricultural Research</i> , 1997 , 48, 231		26
80	Early-season crop area estimates for winter crops in NE Australia using MODIS satellite imagery. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2010 , 65, 380-387	11.8	25
79	Temperature and Sowing Date Affect the Linear Increase of Sunflower Harvest Index. <i>Agronomy Journal</i> , 1998 , 90, 324-328	2.2	25
78	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
77	Hybrid variation for root system efficiency in maize: potential links to drought adaptation. <i>Functional Plant Biology</i> , 2016 , 43, 502-511	2.7	25
76	Simulation Supplements Field Studies to Determine No-Till Dryland Corn Population Recommendations for Semiarid Western Nebraska. <i>Agronomy Journal</i> , 2003 , 95, 884	2.2	24
75	Simulation Supplements Field Studies to Determine No-Till Dryland Corn Population Recommendations for Semiarid Western Nebraska. <i>Agronomy Journal</i> , 2003 , 95, 884-891	2.2	24
74	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
73	The Potential Value of Seasonal Climate Forecasting in Managing Cropping Systems. <i>Atmospheric and Oceanographic Sciences Library</i> , 2000 , 167-181		24
72	Effects of nitrogen supply on canopy development of maize and sunflower. <i>Crop and Pasture Science</i> , 2011 , 62, 1045	2.2	23
71	Genotype-by-Environment Interaction in Grain Sorghum. III. Modeling the Impact in Field Environments. <i>Crop Science</i> , 1989 , 29, 385	2.4	23
70	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
69	Leaf Nitrogen Content and Minimum Temperature Interactions Affect Radiation-Use Efficiency in Peanut. <i>Crop Science</i> , 1993 , 33, 476-481	2.4	21
68	Genotypic Differences in Effects of Short Episodes of High-Temperature Stress during Reproductive Development in Sorghum. <i>Crop Science</i> , 2016 , 56, 1561-1572	2.4	21
67	Sorghum dwarfing genes can affect radiation capture and radiation use efficiency. <i>Field Crops Research</i> , 2013 , 149, 283-290	5.5	20

66	Addressing Research Bottlenecks to Crop Productivity. <i>Trends in Plant Science</i> , 2021 , 26, 607-630	13.1	20
65	Crop science: A foundation for advancing predictive agriculture. <i>Crop Science</i> , 2020 , 60, 544-546	2.4	19
64	A Peanut Simulation Model: II. Assessing Regional Production Potential. <i>Agronomy Journal</i> , 1995 , 87, 1093-1099	2.2	19
63	Molecular Breeding for Complex Adaptive Traits: How Integrating Crop Ecophysiology and Modelling Can Enhance Efficiency 2016 , 147-162		19
62	A General Systems Approach to Applying Seasonal Climate Forecasts. <i>Atmospheric and Oceanographic Sciences Library</i> , 2000 , 51-65		19
61	Genetic Variation in Potential Kernel Size Affects Kernel Growth and Yield of Sorghum. <i>Crop Science</i> , 2010 , 50, 685-695	2.4	18
60	Reliability of production of quick to medium maturity maize in areas of variable rainfall in north-east Australia. <i>Australian Journal of Experimental Agriculture</i> , 2008 , 48, 326		18
59	Linking biophysical and genetic models to integrate physiology, molecular biology and plant breeding. 2002 , 167-187		18
58	Improving Estimates of Individual Leaf Area of Sunflower. <i>Agronomy Journal</i> , 2000 , 92, 761-765	2.2	16
57	Dry matter accumulation and distribution in five cultivars of maize (<i>Zea mays</i>): relationships and procedures for use in crop modelling. <i>Australian Journal of Agricultural Research</i> , 1999 , 50, 513		16
56	Reply to 'Temperature and drought effects on maize yield'. <i>Nature Climate Change</i> , 2014 , 4, 234-234	21.4	15
55	Estimating winter crop area across seasons and regions using time-sequential MODIS imagery. <i>International Journal of Remote Sensing</i> , 2011 , 32, 4281-4310	3.1	15
54	Preface to Special Issue: Complex traits and plant breeding—can we understand the complexities of gene-to-phenotype relationships and use such knowledge to enhance plant breeding outcomes? <i>Australian Journal of Agricultural Research</i> , 2005 , 56, 869		15
53	Evaluating Plant Breeding Strategies by Simulating Gene Action and Dryland Environment Effects. <i>Agronomy Journal</i> , 2003 , 95, 99-113	2.2	14
52	Tackling G × E × M interactions to close on-farm yield-gaps: creating novel pathways for crop improvement by predicting contributions of genetics and management to crop productivity. <i>Theoretical and Applied Genetics</i> , 2021 , 134, 1625-1644	6	14
51	Physiological determinants of high yielding ultra-narrow row cotton: Biomass accumulation and partitioning. <i>Field Crops Research</i> , 2012 , 134, 122-129	5.5	13
50	Genotypic variation in whole-plant transpiration efficiency in sorghum only partly aligns with variation in stomatal conductance. <i>Functional Plant Biology</i> , 2019 , 46, 1072-1089	2.7	12
49	Quantifying high temperature risks and their potential effects on sorghum production in Australia. <i>Field Crops Research</i> , 2017 , 211, 77-88	5.5	12

48	Implications of Seasonal Climate Forecasts on World Wheat Trade: A Stochastic, Dynamic Analysis. <i>Canadian Journal of Agricultural Economics</i> , 2004 , 52, 289-312	10.8	12
47	Yield and Maturity of Ultra-Narrow Row Cotton in High Input Production Systems. <i>Agronomy Journal</i> , 2010 , 102, 843-848	2.2	10
46	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
45	Effects of Planting Time and Harvest Age on Cassava (<i>Manihot esculenta</i>) in Northern Australia. I. Crop Growth and Yield in Moist Environments. <i>Experimental Agriculture</i> , 1987 , 23, 401-414	1.7	10
44	Modelling temperature, photoperiod and vernalization responses of <i>Brunonia australis</i> (Goodeniaceae) and <i>Calandrinia</i> sp. (Portulacaceae) to predict flowering time. <i>Annals of Botany</i> , 2013 , 111, 629-39	4.1	9
43	Applying Seasonal Climate Forecasts in Agricultural and Natural Ecosystems I A Synthesis. <i>Atmospheric and Oceanographic Sciences Library</i> , 2000 , 453-462		9
42	Modelling selection response in plant-breeding programs using crop models as mechanistic gene-to-phenotype (CGM-G2P) multi-trait link functions. <i>In Silico Plants</i> , 2021 , 3,	3.2	9
41	Sorghum Biomass Prediction Using Uav-Based Remote Sensing Data and Crop Model Simulation 2018 ,		9
40	Differences in temperature response of phenological development among diverse Ethiopian sorghum genotypes are linked to racial grouping and agroecological adaptation. <i>Crop Science</i> , 2020 , 60, 977-990	2.4	8
39	Predicting Tillering of Diverse Sorghum Germplasm across Environments. <i>Crop Science</i> , 2017 , 57, 78-87	2.4	7
38	Effects of Planting Time and Harvest Age on Cassava (<i>Manihot esculenta</i>) in Northern Australia. II. Crop Growth and Yield in a Seasonally-Dry Environment. <i>Experimental Agriculture</i> , 1987 , 23, 415-424	1.7	7
37	In pursuit of a better world: crop improvement and the CGIAR. <i>Journal of Experimental Botany</i> , 2021 , 72, 5158-5179	7	7
36	Integrating crop growth models with remote sensing for predicting biomass yield of sorghum. <i>In Silico Plants</i> , 2021 , 3,	3.2	7
35	The Impacts of Flowering Time and Tillering on Grain Yield of Sorghum Hybrids across Diverse Environments. <i>Agronomy</i> , 2020 , 10, 135	3.6	6
34	Juvenility and flowering of <i>Brunonia australis</i> (Goodeniaceae) and <i>Calandrinia</i> sp. (Portulacaceae) in relation to vernalization and daylength. <i>Annals of Botany</i> , 2011 , 108, 215-20	4.1	6
33	Large-scale genome-wide association study reveals that drought-induced lodging in grain sorghum is associated with plant height and traits linked to carbon remobilisation. <i>Theoretical and Applied Genetics</i> , 2020 , 133, 3201-3215	6	6
32	Determining Crop Growth Dynamics in Sorghum Breeding Trials Through Remote and Proximal Sensing Technologies 2018 ,		6
31	Highlights of Drought Policy and Related Science in Australia and the U.S.A.. <i>Water International</i> , 2001 , 26, 349-357	2.4	5

30	Cardinal Temperatures and Thermal Time for Seed Germination of <i>Brunonia australis</i> (Goodeniaceae) and <i>Calandrinia</i> sp. (Portulacaceae). <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 2011 , 46, 753-758	2.4	5
29	The development of strategies for improved agricultural systems and land-use management. <i>Systems Approaches for Sustainable Agricultural Development</i> , 1994 , 81-96		5
28	Using Seasonal Climate Forecasts in Forecasting the Australian Wheat Crop. <i>Atmospheric and Oceanographic Sciences Library</i> , 2000 , 351-366		5
27	Sorghum Crop Modeling and Its Utility in Agronomy and Breeding. <i>Agronomy</i> , 2016 ,	0.8	4
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