Graeme Hammer

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.

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	Estimating Photosynthetic Attributes from High-Throughput Canopy Hyperspectral Sensing in Sorghum.. *Plant Phenomics*, **2022**, 2022, 9768502	7	0
190	Detecting Sorghum Plant and Head Features from Multispectral UAV Imagery. *Plant Phenomics*, **2021**, 2021, 9874650	7	4
189	Genetic control of leaf angle in sorghum and its effect on light interception. *Journal of Experimental Botany*, **2021**,	7	1
188	Modelling selection response in plant-breeding programs using crop models as mechanistic gene-to-phenotype (CGM-G2P) multi-trait link functions. *In Silico Plants*, **2021**, 3,	3.2	9
187	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. *Theoretical and Applied Genetics*, **2021**, 134, 1625-1644	6	14
186	Reproductive resilience but not root architecture underpins yield improvement under drought in maize. *Journal of Experimental Botany*, **2021**, 72, 5235-5245	7	4
185	In pursuit of a better world: crop improvement and the CGIAR. *Journal of Experimental Botany*, **2021** , 72, 5158-5179	7	7
184	Addressing Research Bottlenecks to Crop Productivity. *Trends in Plant Science*, **2021**, 26, 607-630	13.1	20
183	Perspectives on Applications of Hierarchical Gene-To-Phenotype (G2P) Maps to Capture Non-stationary Effects of Alleles in Genomic Prediction. *Frontiers in Plant Science*, **2021**, 12, 663565	6.2	0
182	Limiting transpiration rate in high evaporative demand conditions to improve Australian wheat productivity. *In Silico Plants*, **2021**, 3,	3.2	3
181	Dissecting and modelling the comparative adaptation to water limitation of sorghum and maize: role of transpiration efficiency, transpiration rate and height. *In Silico Plants*, **2021**, 3,	3.2	2
180	Integrating crop growth models with remote sensing for predicting biomass yield of sorghum. *In Silico Plants*, **2021**, 3,	3.2	7
179	Sorghum **2021**, 196-221		2
178	Predicting phenotypes from genetic, environment, management, and historical data using CNNs. *Theoretical and Applied Genetics*, **2021**, 134, 3997-4011	6	0
177	Simulating the effect of flowering time on maize individual leaf area in contrasting environmental scenarios. *Journal of Experimental Botany*, **2020**, 71, 5577-5588	7	1
176	Predicting Wheat Yield at the Field Scale by Combining High-Resolution Sentinel-2 Satellite Imagery and Crop Modelling. *Remote Sensing*, **2020**, 12, 1024	5	39
175	Crop science: A foundation for advancing predictive agriculture. *Crop Science*, **2020**, 60, 544-546	2.4	19

174	Designing crops for adaptation to the drought and high-temperature risks anticipated in future climates. *Crop Science*, **2020**, 60, 605-621	2.4	34
173	Differences in temperature response of phenological development among diverse Ethiopian sorghum genotypes are linked to racial grouping and agroecological adaptation. *Crop Science*, **2020**, 60, 977-990	2.4	8
172	The Impacts of Flowering Time and Tillering on Grain Yield of Sorghum Hybrids across Diverse Environments. *Agronomy*, **2020**, 10, 135	3.6	6
171	Integrating genetic gain and gap analysis to predict improvements in crop productivity. *Crop Science*, **2020**, 60, 582-604	2.4	34
170	Spatial and temporal patterns of lodging in grain sorghum (Sorghum bicolor) in Australia. *Crop and Pasture Science*, **2020**, 71, 379	2.2	2
169	An integrated framework for predicting the risk of experiencing temperature conditions that may trigger late-maturity alpha-amylase in wheat across Australia. *Crop and Pasture Science*, **2020**, 71, 1	2.2	3
168	Are crop and detailed physiological models equally □mechanistic□for predicting the genetic variability of whole-plant behaviour? The nexus between mechanisms and adaptive strategies. *In Silico Plants*, **2020**, 2,	3.2	3
167	The roles of credibility and transdisciplinarity in modelling to support future crop improvement. *In Silico Plants*, **2020**, 2,	3.2	1
166	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. *Theoretical and Applied Genetics*, **2020**, 133, 3201-3215	6	6
165	Towards a multiscale crop modelling framework for climate change adaptation assessment. *Nature Plants*, **2020**, 6, 338-348	11.5	72
164	On the dynamic determinants of reproductive failure under drought in maize. *In Silico Plants*, **2019**, 1,	3.2	29
163	Water Use Efficiency as a Constraint and Target for Improving the Resilience and Productivity of C and C Crops. *Annual Review of Plant Biology*, **2019**, 70, 781-808	30.7	84
162	Quantifying impacts of enhancing photosynthesis on crop yield. *Nature Plants*, **2019**, 5, 380-388	11.5	125
161	Genotypic variation in whole-plant transpiration efficiency in sorghum only partly aligns with variation in stomatal conductance. *Functional Plant Biology*, **2019**, 46, 1072-1089	2.7	12
160	How Do Crops Balance Water Supply and Demand when Water Is Limiting?. *Proceedings (mdpi)*, **2019**, 36, 208	0.3	
159	Modelling Heat and Drought Adaptation in Crops. *Proceedings (mdpi)*, **2019**, 36, 190	0.3	1
158	Biological reality and parsimony in crop models□why we need both in crop improvement!. *In Silico Plants*, **2019**, 1,	3.2	31
157	Integrating Crop Modelling, Physiology, Genetics and Breeding to Aid Crop Improvement for Changing Environments in the Australian Wheatbelt. *Proceedings (mdpi)*, **2019**, 36, 4	0.3	

156	Integrating modelling and phenotyping approaches to identify and screen complex traits: transpiration efficiency in cereals. *Journal of Experimental Botany*, **2018**, 69, 3181-3194	7	41
155	Modelling the nitrogen dynamics of maize crops Enhancing the APSIM maize model. *European Journal of Agronomy*, **2018**, 100, 118-131	5	44
154	VERNALIZATION1 Modulates Root System Architecture in Wheat and Barley. *Molecular Plant*, **2018**, 11, 226-229	14.4	73
153	Sorghum Biomass Prediction Using Uav-Based Remote Sensing Data and Crop Model Simulation **2018**,		9
152	Determining Crop Growth Dynamics in Sorghum Breeding Trials Through Remote and Proximal Sensing Technologies **2018**,		6
151	Simulating daily field crop canopy photosynthesis: an integrated software package. *Functional Plant Biology*, **2018**, 45, 362-377	2.7	31
150	Development of a phenotyping platform for high throughput screening of nodal root angle in sorghum. *Plant Methods*, **2017**, 13, 56	5.8	31
149	Predicting Tillering of Diverse Sorghum Germplasm across Environments. *Crop Science*, **2017**, 57, 78-87	2.4	7
148	Quantifying high temperature risks and their potential effects on sorghum production in Australia. *Field Crops Research*, **2017**, 211, 77-88	5.5	12
147	Multi-Spectral Imaging from an Unmanned Aerial Vehicle Enables the Assessment of Seasonal Leaf Area Dynamics of Sorghum Breeding Lines. *Frontiers in Plant Science*, **2017**, 8, 1532	6.2	82
146	Yield trends under varying environmental conditions for sorghum and wheat across Australia. *Agricultural and Forest Meteorology*, **2016**, 228-229, 276-285	5.8	28
145	Sorghum Crop Modeling and Its Utility in Agronomy and Breeding. *Agronomy*, **2016**,	0.8	4
144	Molecular Breeding for Complex Adaptive Traits: How Integrating Crop Ecophysiology and Modelling Can Enhance Efficiency **2016**, 147-162		19
143	Connecting Biochemical Photosynthesis Models with Crop Models to Support Crop Improvement. *Frontiers in Plant Science*, **2016**, 7, 1518	6.2	44
142	Genotypic Differences in Effects of Short Episodes of High-Temperature Stress during Reproductive Development in Sorghum. *Crop Science*, **2016**, 56, 1561-1572	2.4	21
141	Genetic Manipulation of Root System Architecture to Improve Drought Adaptation in Sorghum. *Compendium of Plant Genomes*, **2016**, 207-226	0.8	1
140	Hybrid variation for root system efficiency in maize: potential links to drought adaptation. *Functional Plant Biology*, **2016**, 43, 502-511	2.7	25
139	Sorghum genotypes differ in high temperature responses for seed set. *Field Crops Research*, **2015**, 171, 32-40	5.5	65

138	Soil water capture trends over 50 years of single-cross maize (Zea mays L.) breeding in the US corn-belt. *Journal of Experimental Botany*, **2015**, 66, 7339-46	7	39
137	The shifting influence of drought and heat stress for crops in northeast Australia. *Global Change Biology*, **2015**, 21, 4115-27	11.4	173
136	Effects of Seasonal Climate Variability and the Use of Climate Forecasts on Wheat Supply in the United States, Australia, and Canada. *ASA Special Publication*, **2015**, 101-123	1.1	2
135	Limited-Transpiration Trait May Increase Maize Drought Tolerance in the US Corn Belt. *Agronomy Journal*, **2015**, 107, 1978-1986	2.2	110
134	Greater sensitivity to drought accompanies maize yield increase in the U.S. Midwest. *Science*, **2014**, 344, 516-9	33.3	567
133	Characterizing drought stress and trait influence on maize yield under current and future conditions. *Global Change Biology*, **2014**, 20, 867-78	11.4	145
132	A physiological framework to explain genetic and environmental regulation of tillering in sorghum. *New Phytologist*, **2014**, 203, 155-67	9.8	38
131	QTL analysis in multiple sorghum populations facilitates the dissection of the genetic and physiological control of tillering. *Theoretical and Applied Genetics*, **2014**, 127, 2253-66	6	29
130	Stay-green alleles individually enhance grain yield in sorghum under drought by modifying canopy development and water uptake patterns. *New Phytologist*, **2014**, 203, 817-30	9.8	119
129	Modelling the effect of plant water use traits on yield and stay-green expression in sorghum. *Functional Plant Biology*, **2014**, 41, 1019-1034	2.7	61
128	Drought adaptation of stay-green sorghum is associated with canopy development, leaf anatomy, root growth, and water uptake. *Journal of Experimental Botany*, **2014**, 65, 6251-63	7	195
127	APSIM Evolution towards a new generation of agricultural systems simulation. *Environmental Modelling and Software*, **2014**, 62, 327-350	5.2	809
126	Predicting Maize Phenology: Intercomparison of Functions for Developmental Response to Temperature. *Agronomy Journal*, **2014**, 106, 2087-2097	2.2	81
125	Robust features of future climate change impacts on sorghum yields in West Africa. *Environmental Research Letters*, **2014**, 9, 104006	6.2	64
124	Crop design for specific adaptation in variable dryland production environments. *Crop and Pasture Science*, **2014**, 65, 614	2.2	92
123	Reply to 'Temperature and drought effects on maize yield'. *Nature Climate Change*, **2014**, 4, 234-234	21.4	15
122	QTL for root angle and number in a population developed from bread wheats (Triticum aestivum) with contrasting adaptation to water-limited environments. *Theoretical and Applied Genetics*, **2013**, 126, 1563-74	6	120
121	Drought stress characterization of post-rainy season (rabi) sorghum in India. *Field Crops Research*, **2013**, 141, 38-46	5.5	48

120	Physiological determinants of high yielding ultra-narrow row cotton: Canopy development and radiation use efficiency. *Field Crops Research*, **2013**, 148, 86-94	5.5	30
119	Sorghum dwarfing genes can affect radiation capture and radiation use efficiency. *Field Crops Research*, **2013**, 149, 283-290	5.5	20
118	The critical role of extreme heat for maize production in the United States. *Nature Climate Change*, **2013**, 3, 497-501	21.4	517
117	Spatial impact of projected changes in rainfall and temperature on wheat yields in Australia. *Climatic Change*, **2013**, 117, 163-179	4.5	49
116	Genetic variability in high temperature effects on seed-set in sorghum. *Functional Plant Biology*, **2013**, 40, 439-448	2.7	44
115	Modelling temperature, photoperiod and vernalization responses of Brunonia australis (Goodeniaceae) and Calandrinia sp. (Portulacaceae) to predict flowering time. *Annals of Botany*, **2013**, 111, 629-39	4.1	9
114	Genetic control of nodal root angle in sorghum and its implications on water extraction. *European Journal of Agronomy*, **2012**, 42, 3-10	5	46
113	Temperature effect on transpiration response of maize plants to vapour pressure deficit. *Environmental and Experimental Botany*, **2012**, 78, 157-162	5.9	96
112	QTL for nodal root angle in sorghum (Sorghum bicolor L. Moench) co-locate with QTL for traits associated with drought adaptation. *Theoretical and Applied Genetics*, **2012**, 124, 97-109	6	175
111	Physiological determinants of high yielding ultra-narrow row cotton: Biomass accumulation and partitioning. *Field Crops Research*, **2012**, 134, 122-129	5.5	13
110	Stay-green quantitative trait loci's effects on water extraction, transpiration efficiency and seed yield depend on recipient parent background. *Functional Plant Biology*, **2011**, 38, 553-566	2.7	87
109	Effects of nitrogen supply on canopy development of maize and sunflower. *Crop and Pasture Science*, **2011**, 62, 1045	2.2	23
108	Decrease in sorghum grain yield due to the dw3 dwarfing gene is caused by reduction in shoot biomass. *Field Crops Research*, **2011**, 124, 231-239	5.5	31
107	Juvenility and flowering of Brunonia australis (Goodeniaceae) and Calandrinia sp. (Portulacaceae) in relation to vernalization and daylength. *Annals of Botany*, **2011**, 108, 215-20	4.1	6
106	Environment characterization as an aid to wheat improvement: interpreting genotype-environment interactions by modelling water-deficit patterns in North-Eastern Australia. *Journal of Experimental Botany*, **2011**, 62, 1743-55	7	194
105	Estimating winter crop area across seasons and regions using time-sequential MODIS imagery. *International Journal of Remote Sensing*, **2011**, 32, 4281-4310	3.1	15
104	Does Increased Leaf Appearance Rate Enhance Adaptation to Postanthesis Drought Stress in Sorghum?. *Crop Science*, **2011**, 51, 2728-2740	2.4	45
103	Genetic Variability and Control of Nodal Root Angle in Sorghum. *Crop Science*, **2011**, 51, 2011-2020	2.4	49

102	Cardinal Temperatures and Thermal Time for Seed Germination of Brunonia australis (Goodeniaceae) and Calandrinia sp. (Portulacaceae). *Hortscience: A Publication of the American Society for Hortcultural Science*, **2011**, 46, 753-758	2.4	5
101	Genetic Variation in Potential Kernel Size Affects Kernel Growth and Yield of Sorghum. *Crop Science* , **2010**, 50, 685-695	2.4	18
100	Yield and Maturity of Ultra-Narrow Row Cotton in High Input Production Systems. *Agronomy Journal*, **2010**, 102, 843-848	2.2	10
99	Regulation of tillering in sorghum: genotypic effects. *Annals of Botany*, **2010**, 106, 69-78	4.1	42
98	Adapting APSIM to model the physiology and genetics of complex adaptive traits in field crops. *Journal of Experimental Botany*, **2010**, 61, 2185-202	7	217
97	Experimental and modelling studies of drought-adaptive root architectural traits in wheat (Triticum aestivum L.). *Plant Biosystems*, **2010**, 144, 458-462	1.6	56
96	Regulation of tillering in sorghum: environmental effects. *Annals of Botany*, **2010**, 106, 57-67	4.1	57
95	Functional dynamics of the nitrogen balance of sorghum: I. N demand of vegetative plant parts. *Field Crops Research*, **2010**, 115, 19-28	5.5	69
94	Functional dynamics of the nitrogen balance of sorghum. II. Grain filling period. *Field Crops Research* , **2010**, 115, 29-38	5.5	74
93	Floral ontogeny of Brunonia australis (Goodeniaceae) and Calandrinia sp. (Portulacaceae). *Australian Journal of Botany*, **2010**, 58, 61	1.2	3
92	Morphological and architectural development of root systems in sorghum and maize. *Plant and Soil*, **2010**, 333, 287-299	4.2	110
91	Early-season crop area estimates for winter crops in NE Australia using MODIS satellite imagery. *ISPRS Journal of Photogrammetry and Remote Sensing*, **2010**, 65, 380-387	11.8	25
90	Pre-anthesis ovary development determines genotypic differences in potential kernel weight in sorghum. *Journal of Experimental Botany*, **2009**, 60, 1399-408	7	51
89	Modelling Crop Improvement in a G□□M Framework via Gene□rait□Phenotype Relationships **2009**, 235-581		46
88	Modeling QTL for complex traits: detection and context for plant breeding. *Current Opinion in Plant Biology*, **2009**, 12, 231-40	9.9	125
87	Designing the sorghum crop model in APSIM to simulate the physiology and genetics of complex adaptive traits. *Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology*, **2009**, 153, S222	2.6	2
86	Simulating the yield impacts of organ-level quantitative trait loci associated with drought response in maize: a "gene-to-phenotype" modeling approach. *Genetics*, **2009**, 183, 1507-23	4	175
85	Modelling environmental effects on phenology and canopy development of diverse sorghum genotypes. *Field Crops Research*, **2009**, 111, 157-165	5.5	48

84	Physiological determinants of maize and sunflower grain yield as affected by nitrogen supply. *Field Crops Research*, **2009**, 113, 256-267	5.5	81
83	Can Changes in Canopy and/or Root System Architecture Explain Historical Maize Yield Trends in the U.S. Corn Belt?. *Crop Science*, **2009**, 49, 299-312	2.4	462
82	Short-term responses of leaf growth rate to water deficit scale up to whole-plant and crop levels: an integrated modelling approach in maize. *Plant, Cell and Environment*, **2008**, 31, 378-91	8.4	103
81	Determination of grain number in sorghum. *Field Crops Research*, **2008**, 108, 259-268	5.5	43
80	Developmental and physiological traits associated with high yield and stay-green phenotype in wheat. *Australian Journal of Agricultural Research*, **2008**, 59, 354		122
79	Genotypic variation in seedling root architectural traits and implications for drought adaptation in wheat (Triticum aestivum L.). *Plant and Soil*, **2008**, 303, 115-129	4.2	279
78	Reliability of production of quick to medium maturity maize in areas of variable rainfall in north-east Australia. *Australian Journal of Experimental Agriculture*, **2008**, 48, 326		18
77	Estimating crop area using seasonal time series of Enhanced Vegetation Index from MODIS satellite imagery. *Australian Journal of Agricultural Research*, **2007**, 58, 316		44
76	The role of root architectural traits in adaptation of wheat to water-limited environments. *Functional Plant Biology*, **2006**, 33, 823-837	2.7	418
75	Modeling chickpea growth and development: Phenological development. *Field Crops Research*, **2006**, 99, 1-13	5.5	68
74	Models for navigating biological complexity in breeding improved crop plants. *Trends in Plant Science*, **2006**, 11, 587-93	13.1	291
73	Exploring profit□sustainability trade-offs in cropping systems using evolutionary algorithms. *Environmental Modelling and Software*, **2006**, 21, 1368-1374	5.2	37
72	Three Putative Types of El Ni□ Revealed by Spatial Variability in Impact on Australian Wheat Yield. *Journal of Climate*, **2005**, 18, 1566-1574	4.4	28
71	Potential yield and water-use efficiency benefits in sorghum from limited maximum transpiration rate. *Functional Plant Biology*, **2005**, 32, 945-952	2.7	172
70	A simple regional-scale model for forecasting sorghum yield across North-Eastern Australia. *Agricultural and Forest Meteorology*, **2005**, 132, 143-153	5.8	45
69	Rainfall Variability at Decadal and Longer Time Scales: Signal or Noise?. *Journal of Climate*, **2005**, 18, 89-96	4.4	60
68	Preface to Special Issue: Complex traits and plant breeding□an we understand the complexities of gene-to-phenotype relationships and use such knowledge to enhance plant breeding outcomes?. *Australian Journal of Agricultural Research*, **2005**, 56, 869		15
67	Trait physiology and crop modelling as a framework to link phenotypic complexity to underlying genetic systems. *Australian Journal of Agricultural Research*, **2005**, 56, 947		126

66	Modelling the effects of row configuration on sorghum yield reliability in north-eastern Australia. *Australian Journal of Agricultural Research*, **2005**, 56, 11		54
65	Implications of Seasonal Climate Forecasts on World Wheat Trade: A Stochastic, Dynamic Analysis. *Canadian Journal of Agricultural Economics*, **2004**, 52, 289-312	10.8	12
64	On systems thinking, systems biology, and the in silico plant. *Plant Physiology*, **2004**, 134, 909-11	6.6	103
63	Evaluating Plant Breeding Strategies by Simulating Gene Action and Dryland Environment Effects. *Agronomy Journal*, **2003**, 95, 99	2.2	140
62	Genotype and Environment Effects on Dynamics of Harvest Index during Grain Filling in Sorghum. *Agronomy Journal*, **2003**, 95, 199	2.2	41
61	Simulation Supplements Field Studies to Determine No-Till Dryland Corn Population Recommendations for Semiarid Western Nebraska. *Agronomy Journal*, **2003**, 95, 884	2.2	24
60	Simulation Supplements Field Studies to Determine No-Till Dryland Corn Population Recommendations for Semiarid Western Nebraska. *Agronomy Journal*, **2003**, 95, 884-891	2.2	24
59	On measuring quality of a probabilistic commodity forecast for a system that incorporates seasonal climate forecasts. *International Journal of Climatology*, **2003**, 23, 1195-1210	3.5	41
58	Evaluating Plant Breeding Strategies by Simulating Gene Action and Dryland Environment Effects. *Agronomy Journal*, **2003**, 95, 99-113	2.2	14
57	Using crop simulation to generate genotype by environment interaction effects for sorghum in water-limited environments. *Australian Journal of Agricultural Research*, **2002**, 53, 379		77
56	Tillering in grain sorghum over a wide range of population densities: identification of a common hierarchy for tiller emergence, leaf area development and fertility. *Annals of Botany*, **2002**, 90, 87-98	4.1	73
55	Tillering in grain sorghum over a wiide range of population densities: modelling dynamics of tiller fertility. *Annals of Botany*, **2002**, 90, 99-110	4.1	56
54	Spatial and temporal patterns in Australian wheat yield and their relationship with ENSO. *Australian Journal of Agricultural Research*, **2002**, 53, 77		63
53	Linking biophysical and genetic models to integrate physiology, molecular biology and plant breeding. **2002**, 167-187		18
52	The GP problem: quantifying gene-to-phenotype relationships. *In Silico Biology*, **2002**, 2, 151-64	2	41
51	Stay-green: A consequence of the balance between supply and demand for nitrogen during grain filling?. *Annals of Applied Biology*, **2001**, 138, 91-95	2.6	218
50	Highlights of Drought Policy and Related Science in Australia and the U.S.A.. *Water International*, **2001**, 26, 349-357	2.4	5
49	Does Maintaining Green Leaf Area in Sorghum Improve Yield under Drought? I. Leaf Growth and Senescence. *Crop Science*, **2000**, 40, 1026-1037	2.4	153

48	Genotype by environment interactions affecting grain sorghum. II. Frequencies of different seasonal patterns of drought stress are related to location effects on hybrid yields. *Australian Journal of Agricultural Research*, **2000**, 51, 209		132
47	Genotype by environment interactions affecting grain sorghum. III. Temporal sequences and spatial patterns in the target population of environments. *Australian Journal of Agricultural Research*, **2000**, 51, 223		85
46	Does Maintaining Green Leaf Area in Sorghum Improve Yield under Drought? II. Dry Matter Production and Yield. *Crop Science*, **2000**, 40, 1037-1048	2.4	254
45	Nitrogen Dynamics and the Physiological Basis of Stay-Green in Sorghum. *Crop Science*, **2000**, 40, 1295-1307	2.4	177
44	Improving Estimates of Individual Leaf Area of Sunflower. *Agronomy Journal*, **2000**, 92, 761-765	2.2	16
43	Genotype and Water Limitation Effects on Transpiration Efficiency in Sorghum. *The Journal of Crop Improvement: Innovations in Practiceory and Research*, **2000**, 2, 265-286		26
42	The Potential Value of Seasonal Climate Forecasting in Managing Cropping Systems. *Atmospheric and Oceanographic Sciences Library*, **2000**, 167-181		24
41	Comparing the Value of Seasonal Climate Forecasting Systems in Managing Cropping Systems. *Atmospheric and Oceanographic Sciences Library*, **2000**, 183-195		4
40	Using Seasonal Climate Forecasts in Forecasting the Australian Wheat Crop. *Atmospheric and Oceanographic Sciences Library*, **2000**, 351-366		5
39	Can Seasonal Climate Forecasts Predict Movements in Grain Prices?. *Atmospheric and Oceanographic Sciences Library*, **2000**, 367-380		4
38	Applying Seasonal Climate Forecasts in Agricultural and Natural Ecosystems A Synthesis. *Atmospheric and Oceanographic Sciences Library*, **2000**, 453-462		9
37	A General Systems Approach to Applying Seasonal Climate Forecasts. *Atmospheric and Oceanographic Sciences Library*, **2000**, 51-65		19
36	Adaptation of sorghum: characterisation of genotypic flowering responses to temperature and photoperiod. *Theoretical and Applied Genetics*, **1999**, 99, 900-911	6	62
35	Dry matter accumulation and distribution in five cultivars of maize (Zea mays): relationships and procedures for use in crop modelling. *Australian Journal of Agricultural Research*, **1999**, 50, 513		16
34	Improving wheat simulation capabilities in Australia from a cropping systems perspective II. Testing simulation capabilities of wheat growth. *European Journal of Agronomy*, **1998**, 8, 83-99	5	21
33	Temperature and Sowing Date Affect the Linear Increase of Sunflower Harvest Index. *Agronomy Journal*, **1998**, 90, 324-328	2.2	25
32	Improved methods for predicting individual leaf area and leaf senescence in maize (Zea mays). *Australian Journal of Agricultural Research*, **1998**, 49, 249		48
31	Radiation use efficiency increases when the diffuse component of incident radiation is enhanced under shade. *Australian Journal of Agricultural Research*, **1998**, 49, 665		58

30	Improving wheat simulation capabilities in Australia from a cropping systems perspective: water and nitrogen effects on spring wheat in a semi-arid environment. *Developments in Crop Science*, **1997**, 99-112		10
29	On the extent of genetic variation for transpiration efficiency in sorghum. *Australian Journal of Agricultural Research*, **1997**, 48, 649		56
28	Effect of Radiation Environment on Radiation Use Efficiency and Growth of Sunflower. *Crop Science* , **1997**, 37, 1208-1214	2.4	40
27	Effect of Specific Leaf Nitrogen on Radiation Use Efficiency and Growth of Sunflower. *Crop Science*, **1997**, 37, 1201-1208	2.4	40
26	Improving wheat simulation capabilities in Australia from a cropping systems perspective: water and nitrogen effects on spring wheat in a semi-arid environment. *European Journal of Agronomy*, **1997**, 7, 75-88	5	46
25	Environmental control of potential yield of sunflower in the subtropics. *Australian Journal of Agricultural Research*, **1997**, 48, 231		26
24	Forecasting regional crop production using SOI phases: an example for the Australian peanut industry. *Australian Journal of Agricultural Research*, **1997**, 48, 789		25
23	The role of physiological understanding in plant breeding; from a breeding perspective. *Field Crops Research*, **1996**, 49, 11-37	5.5	144
22	Frost in Northeast Australia: Trends and Influences of Phases of the Southern Oscillation. *Journal of Climate*, **1996**, 9, 1896-1909	4.4	63
21	SOI PHASES AND CLIMATIC RISK TO PEANUT PRODUCTION: A CASE STUDY FOR NORTHERN AUSTRALIA. *International Journal of Climatology*, **1996**, 16, 783-789	3.5	43
20	Prediction of global rainfall probabilities using phases of the Southern Oscillation Index. *Nature*, **1996**, 384, 252-255	50.4	272
19	A Peanut Simulation Model: II. Assessing Regional Production Potential. *Agronomy Journal*, **1995**, 87, 1093-1099	2.2	19
18	A Peanut Simulation Model: I. Model Development and Testing. *Agronomy Journal*, **1995**, 87, 1085-1093	2.2	50
17	The development of strategies for improved agricultural systems and land-use management. *Systems Approaches for Sustainable Agricultural Development*, **1994**, 81-96		5
16	The development of strategies for improved agricultural systems and land-use management **1994**, 81-96		1
15	Prediction of Sweet Corn Phenology in Subtropical Environments. *Agronomy Journal*, **1993**, 85, 410-415	2.2	29
14	A Sunflower Simulation Model: I. Model Development. *Agronomy Journal*, **1993**, 85, 725-735	2.2	101
13	A Sunflower Simulation Model: II. Simulating Production Risks in a Variable Sub-Tropical Environment. *Agronomy Journal*, **1993**, 85, 735-742	2.2	24

12	Leaf Nitrogen Content and Minimum Temperature Interactions Affect Radiation-Use Efficiency in Peanut. *Crop Science*, **1993**, 33, 476-481	2.4	21
11	Variation in Crop Radiation-Use Efficiency with Increased Diffuse Radiation. *Crop Science*, **1992**, 32, 1281-1284	2.4	129
10	Genotype and Water Limitation Effects on Phenology, Growth, and Transpiration Efficiency in Grain Sorghum. *Crop Science*, **1992**, 32, 781-786	2.4	49
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