

Thomas R Sinclair

List of Publications by Citations

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251
papers

11,863
citations

59
h-index

101
g-index

257
ext. papers

13,227
ext. citations

4.4
avg, IF

6.69
L-index

#	Paper	IF	Citations
251	Leaf Nitrogen, Photosynthesis, and Crop Radiation Use Efficiency: A Review. <i>Crop Science</i> , 1989 , 29, 90-98	9.4	795
250	Photosynthate and nitrogen requirements for seed production by various crops. <i>Science</i> , 1975 , 189, 565-573	33.3	496
249	Radiation Use Efficiency. <i>Advances in Agronomy</i> , 1999 , 65, 215-265	7.7	493
248	Water-Use Efficiency in Crop Production. <i>BioScience</i> , 1984 , 34, 36-40	5.7	365
247	Temperature and Solar Radiation Effects on Potential Maize Yield across Locations. <i>Agronomy Journal</i> , 1990 , 82, 338-343	2.2	271
246	Crop transformation and the challenge to increase yield potential. <i>Trends in Plant Science</i> , 2004 , 9, 70-5	13.1	261
245	Analysis of the Carbon and Nitrogen Limitations to Soybean Yield ¹ . <i>Agronomy Journal</i> , 1976 , 68, 319-324	4.2	253
244	Symbiotic N ₂ fixation response to drought. <i>Journal of Experimental Botany</i> , 1999 , 50, 143-155	7	251
243	Historical Changes in Harvest Index and Crop Nitrogen Accumulation. <i>Crop Science</i> , 1998 , 38, 638-643	2.4	244
242	Crop Modeling: From Infancy to Maturity. <i>Agronomy Journal</i> , 1996 , 88, 698-704	2.2	209
241	Transpiration responses to vapor pressure deficit in well watered slow-wilting and commercial soybean. <i>Environmental and Experimental Botany</i> , 2007 , 61, 145-151	5.9	203
240	System Analysis of Plant Traits to Increase Grain Yield on Limited Water Supplies. <i>Agronomy Journal</i> , 2001 , 93, 263-270	2.2	186
239	Nitrogen and water resources commonly limit crop yield increases, not necessarily plant genetics. <i>Global Food Security</i> , 2012 , 1, 94-98	8.3	181
238	Assessment across the United States of the Benefits of Altered Soybean Drought Traits. <i>Agronomy Journal</i> , 2010 , 102, 475-482	2.2	180
237	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
236	Low leaf hydraulic conductance associated with drought tolerance in soybean. <i>Physiologia Plantarum</i> , 2008 , 132, 446-51	4.6	164
235	Challenges in breeding for yield increase for drought. <i>Trends in Plant Science</i> , 2011 , 16, 289-93	13.1	148

234	The effect of pot size on growth and transpiration of maize and soybean during water deficit stress. <i>Journal of Experimental Botany</i> , 1998 , 49, 1381-1386	7	141
233	Erect Leaves and Photosynthesis in Rice. <i>Science</i> , 1999 , 283, 1455c-1455	33.3	139
232	Ecological and evolutionary consequences of desiccation tolerance in tropical fern gametophytes. <i>New Phytologist</i> , 2007 , 176, 708-717	9.8	130
231	Variation in Crop Radiation-Use Efficiency with Increased Diffuse Radiation. <i>Crop Science</i> , 1992 , 32, 1281-1284	12.84	129
230	Drought tolerance and yield increase of soybean resulting from improved symbiotic N ₂ fixation. <i>Field Crops Research</i> , 2007 , 101, 68-71	5.5	124
229	Physiological phenotyping of plants for crop improvement. <i>Trends in Plant Science</i> , 2015 , 20, 139-44	13.1	120
228	Criteria for publishing papers on crop modeling. <i>Field Crops Research</i> , 2000 , 68, 165-172	5.5	118
227	Water Deficit Effects on Maize Yields Modeled under Current and Greenhouse Climates. <i>Agronomy Journal</i> , 1991 , 83, 1052-1059	2.2	115
226	Genetic variability of transpiration response to vapor pressure deficit among sorghum genotypes. <i>Field Crops Research</i> , 2010 , 119, 85-90	5.5	112
225	Limited-Transpiration Trait May Increase Maize Drought Tolerance in the US Corn Belt. <i>Agronomy Journal</i> , 2015 , 107, 1978-1986	2.2	110
224	Stomatal Closure of Maize Hybrids in Response to Drying Soil. <i>Crop Science</i> , 1997 , 37, 803-807	2.4	109
223	Response to drought stress of nitrogen fixation (acetylene reduction) rates by field-grown soybeans. <i>Plant Physiology</i> , 1985 , 78, 525-30	6.6	106
222	Legume nitrogen fixation and drought. <i>Nature</i> , 1995 , 378, 344-344	50.4	101
221	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
220	Soybean genotypic differences in sensitivity of symbiotic nitrogen fixation to soil dehydration. <i>Plant and Soil</i> , 1991 , 133, 31-37	4.2	93
219	Is transpiration efficiency a viable plant trait in breeding for crop improvement?. <i>Functional Plant Biology</i> , 2012 , 39, 359-365	2.7	91
218	Genotypic Variation in Peanut for Transpiration Response to Vapor Pressure Deficit. <i>Crop Science</i> , 2010 , 50, 191-196	2.4	90
217	Physiological traits for crop yield improvement in low N and P environments. <i>Plant and Soil</i> , 2002 , 245, 1-15	4.2	90

216	Transpiration response of 'slow-wilting' and commercial soybean (<i>Glycine max</i> (L.) Merr.) genotypes to three aquaporin inhibitors. <i>Journal of Experimental Botany</i> , 2010 , 61, 821-9	7	89
215	Field Pea Transpiration and Leaf Growth in Response to Soil Water Deficits. <i>Crop Science</i> , 1996 , 36, 331-335	3.5	80
214	Soybean production potential in Africa. <i>Global Food Security</i> , 2014 , 3, 31-40	8.3	79
213	Accumulation of β -aminobutyric acid in nodulated soybean in response to drought stress.. <i>Physiologia Plantarum</i> , 1998 , 102, 79-86	4.6	76
212	Relative Sensitivity of Nitrogen and Biomass Accumulation to Drought in Field-Grown Soybean1. <i>Agronomy Journal</i> , 1987 , 79, 986-991	2.2	76
211	The effect of vapor pressure deficit on maize transpiration response to a drying soil. <i>Plant and Soil</i> , 2002 , 239, 113-121	4.2	75
210	Epidermal conductance, stomatal density and stomatal size among genotypes of <i>Sorghum bicolor</i> (L.) Moench. <i>Plant, Cell and Environment</i> , 1989 , 12, 425-431	8.4	75
209	Asparagine and ureide accumulation in nodules and shoots as feedback inhibitors of N ₂ fixation in soybean. <i>Physiologia Plantarum</i> , 2000 , 110, 215-223	4.6	73
208	Relative Sensitivity of Grain Yield and Biomass Accumulation to Drought in Field-Grown Maize. <i>Crop Science</i> , 1990 , 30, 690-693	2.4	72
207	Transpiration Response of Maize Hybrids to Atmospheric Vapour Pressure Deficit. <i>Journal of Agronomy and Crop Science</i> , 2013 , 199, 155-160	3.9	71
206	Effect of Nitrogen Supply on Maize Yield: I. Modeling Physiological Responses. <i>Agronomy Journal</i> , 1995 , 87, 632-641	2.2	71
205	Processes Contributing to N ₂ -Fixation Intensity to Drought in the Soybean Cultivar Jackson. <i>Crop Science</i> , 1996 , 36, 961-968	2.4	69
204	Distribution of Nitrogen among Leaves in Soybean Canopies. <i>Crop Science</i> , 1993 , 33, 804-808	2.4	67
203	Soybean nodulation and N ₂ fixation response to drought under carbon dioxide enrichment. <i>Plant, Cell and Environment</i> , 1998 , 21, 491-500	8.4	65
202	Leaf Area Development in Field-Grown Soybeans1. <i>Agronomy Journal</i> , 1984 , 76, 141-146	2.2	65
201	Stability of Soybean Harvest Index1. <i>Agronomy Journal</i> , 1984 , 76, 482-486	2.2	65
200	Is a physiological perspective relevant in a 'genocentric' age?. <i>Journal of Experimental Botany</i> , 2005 , 56, 2777-82	7	64
199	Genetic Variability of Transpiration Response to Vapor Pressure Deficit among Soybean Cultivars. <i>Crop Science</i> , 2009 , 49, 955-960	2.4	63

198	An analysis of errors in the calculation of energy flux densities above vegetation by a Bowen-ratio profile method. <i>Boundary-Layer Meteorology</i> , 1975 , 8, 129-139	3.4	63
197	The future of grain legumes in cropping systems. <i>Crop and Pasture Science</i> , 2012 , 63, 501	2.2	62
196	Soybean Radiation-Use Efficiency as Influenced by Nonuniform Specific Leaf Nitrogen Distribution and Diffuse Radiation. <i>Crop Science</i> , 1993 , 33, 808-812	2.4	62
195	Theoretical Analysis of Soil and Plant Traits Influencing Daily Plant Water Flux on Drying Soils. <i>Agronomy Journal</i> , 2005 , 97, 1148-1152	2.2	61
194	Soybean N ₂ Fixation Estimates, Ureide Concentration, and Yield Responses to Drought. <i>Crop Science</i> , 2004 , 44, 484-492	2.4	60
193	Soybean Flowering Date: Linear and Logistic Models Based on Temperature and Photoperiod. <i>Crop Science</i> , 1991 , 31, 786-790	2.4	60
192	Leaf ureide degradation and N ₂ fixation tolerance to water deficit in soybean1. <i>Journal of Experimental Botany</i> , 2001 , 52, 153-159	7	59
191	Identification of Soybean Genotypes with N ₂ Fixation Tolerance to Water Deficits. <i>Crop Science</i> , 2000 , 40, 1803-1809	2.4	58
190	Feedback regulation of symbiotic N ₂ fixation under drought stress. <i>Agronomy for Sustainable Development</i> , 2001 , 21, 621-626		57
189	Inadequacy of the Liebig Limiting-Factor Paradigm for Explaining Varying Crop Yields. <i>Agronomy Journal</i> , 1993 , 85, 742-746	2.2	55
188	Limited-transpiration response to high vapor pressure deficit in crop species. <i>Plant Science</i> , 2017 , 260, 109-118	5.3	54
187	Mapping of quantitative trait loci for canopy-wilting trait in soybean (<i>Glycine max</i> L. Merr). <i>Theoretical and Applied Genetics</i> , 2012 , 125, 837-46	6	50
186	Daily transpiration rates of woody species on drying soil. <i>Tree Physiology</i> , 2005 , 25, 1469-72	4.2	50
185	A Peanut Simulation Model: I. Model Development and Testing. <i>Agronomy Journal</i> , 1995 , 87, 1085-1093	2.2	50
184	Linear Increase in Soybean Harvest Index during Seed-Filling1. <i>Agronomy Journal</i> , 1985 , 77, 207-211	2.2	49
183	Evaluation of Elite Southern Maturity Soybean Breeding Lines for Drought-Tolerant Traits. <i>Agronomy Journal</i> , 2014 , 106, 1947-1954	2.2	47
182	Aquaporin Activity to Improve Crop Drought Tolerance. <i>Cells</i> , 2018 , 7,	7.9	46
181	Increasing Photosynthesis: Unlikely Solution For World Food Problem. <i>Trends in Plant Science</i> , 2019 , 24, 1032-1039	13.1	45

180	Comparison of common bean (<i>Phaseolus vulgaris</i> L.) genotypes for nitrogen fixation tolerance to soil drying. <i>Plant and Soil</i> , 2013 , 364, 29-37	4.2	45
179	Light effects on rhizome morphogenesis in nutsedges (<i>Cyperus</i> spp.): implications for control by soil solarization. <i>Weed Science</i> , 1998 , 46, 575-580	2	45
178	Leaf Elongation and Turgor Pressure in Field-grown Soybean1. <i>Agronomy Journal</i> , 1978 , 70, 761-764	2.2	45
177	A simple model for chickpea development, growth and yield. <i>Field Crops Research</i> , 2011 , 124, 252-260	5.5	44
176	Water Relations of Field-Grown Soybean under Drought1. <i>Crop Science</i> , 1986 , 26, 993-998	2.4	44
175	Genetic Variability of Transpiration Response of Soybean [<i>Glycine max</i> (L.) Merr.] Shoots to Leaf Hydraulic Conductance Inhibitor AgNO ₃ . <i>Crop Science</i> , 2010 , 50, 1423-1430	2.4	42
174	Registration of Soybean Germplasm Lines R01-416F and R01-581F for Improved Yield and Nitrogen Fixation under Drought Stress. <i>Journal of Plant Registrations</i> , 2007 , 1, 166-167	0.7	42
173	Soybean leaf growth and gas exchange response to drought under carbon dioxide enrichment. <i>Global Change Biology</i> , 1999 , 5, 283-291	11.4	41
172	Variation among Soybean Cultivars in Dinitrogen Fixation Response to Drought. <i>Agronomy Journal</i> , 1997 , 89, 963-969	2.2	40
171	Nitrogen accumulation and nodule activity of field-grown Jackson soybean in response to water deficits. <i>Field Crops Research</i> , 1997 , 52, 109-116	5.5	39
170	Ureide concentration of field-grown soybean in response to drought and the relationship to nitrogen fixation. <i>Journal of Plant Nutrition</i> , 1998 , 21, 949-966	2.3	39
169	Extractable Soil Water and Transpiration Rate of Soybean on Sandy Soils. <i>Agronomy Journal</i> , 1998 , 90, 363-368	2.2	39
168	Growth and Yield of Field-Grown Soybean in Response to Enhanced Exposure to Ultraviolet-B Radiation. <i>Journal of Environmental Quality</i> , 1990 , 19, 478-481	3.4	39
167	Temperature interactions with transpiration response to vapor pressure deficit among cultivated and wild soybean genotypes. <i>Physiologia Plantarum</i> , 2013 , 148, 62-73	4.6	37
166	Genotypic variation within sorghum for transpiration response to drying soil. <i>Plant and Soil</i> , 2012 , 357, 35-40	4.2	37
165	A comparison of four wheat models with respect to robustness and transparency: Simulation in a temperate, sub-humid environment. <i>Field Crops Research</i> , 2015 , 175, 37-46	5.5	35
164	Transpiration response of de-rooted peanut plants to aquaporin inhibitors. <i>Environmental and Experimental Botany</i> , 2012 , 78, 167-172	5.9	35
163	Genetic variability of transpiration response to vapor pressure deficit among soybean (<i>Glycine max</i> [L.] Merr.) genotypes selected from a recombinant inbred line population. <i>Field Crops Research</i> , 2009 , 113, 156-160	5.5	35

162	Genotypic variability among peanut (<i>Arachis hypogea</i> L.) in sensitivity of nitrogen fixation to soil drying. <i>Plant and Soil</i> , 2010 , 330, 139-148	4.2	34
161	Fixation Drought Tolerance of the Slow-Wilting Soybean PI 471938. <i>Crop Science</i> , 2013 , 53, 2072-2078	2.4	33
160	Crop rotations in Argentina: Analysis of water balance and yield using crop models. <i>Agricultural Systems</i> , 2009 , 102, 11-16	6.1	33
159	Nitrogen Partitioning and Dry Matter Allocation in Soybeans with Different Seed Protein Concentration1. <i>Crop Science</i> , 1985 , 25, 451-455	2.4	33
158	Identification of QTLs associated with limited leaf hydraulic conductance in soybean. <i>Euphytica</i> , 2012 , 186, 679-686	2.1	32
157	Allometric approach to crop nutrition and implications for crop diagnosis and phenotyping. A review. <i>Agronomy for Sustainable Development</i> , 2019 , 39, 1	6.8	31
156	Model analysis of plant traits leading to prolonged crop survival during severe drought. <i>Field Crops Research</i> , 2000 , 68, 211-217	5.5	31
155	Leaf ureide degradation and N(2) fixation tolerance to water deficit in soybean. <i>Journal of Experimental Botany</i> , 2001 , 52, 153-9	7	31
154	Transpiration Sensitivity to Evaporative Demand Across 120 Years of Breeding of Australian Wheat Cultivars. <i>Journal of Agronomy and Crop Science</i> , 2017 , 203, 219-226	3.9	30
153	Manganese application alleviates the water deficit-induced decline of N2 fixation. <i>Plant, Cell and Environment</i> , 2000 , 23, 497-505	8.4	30
152	Genotypic Variation in Soybean Nodule Number and Weight. <i>Crop Science</i> , 1991 , 31, 301-304	2.4	30
151	Effective Water Use Required for Improving Crop Growth Rather Than Transpiration Efficiency. <i>Frontiers in Plant Science</i> , 2018 , 9, 1442	6.2	30
150	Maize Hybrid Variability for Transpiration Decrease with Progressive Soil Drying. <i>Journal of Agronomy and Crop Science</i> , 2013 , 199, 23-29	3.9	29
149	Hydraulic Conductance of Maize Hybrids Differing in Transpiration Response to Vapor Pressure Deficit. <i>Crop Science</i> , 2014 , 54, 1147-1152	2.4	29
148	Leaf expansion of soybean subjected to high and low atmospheric vapour pressure deficits. <i>Journal of Experimental Botany</i> , 2015 , 66, 1845-50	7	28
147	Temperature influences the ability of tall fescue to control transpiration in response to atmospheric vapour pressure deficit. <i>Functional Plant Biology</i> , 2012 , 39, 979-986	2.7	28
146	Short photoperiod inhibits winter growth of subtropical grasses. <i>Planta</i> , 2001 , 213, 488-91	4.7	27
145	Nodule gas exchange and water potential response to rapid imposition of water deficit. <i>Plant, Cell and Environment</i> , 1995 , 18, 179-187	8.4	27

144	Variation Among Maize Hybrids in Response to High Vapor Pressure Deficit at High Temperatures. <i>Crop Science</i> , 2016 , 56, 392-396	2.4	27
143	An osmotic hypothesis for the regulation of oxygen permeability in soybean nodules. <i>Plant, Cell and Environment</i> , 1994 , 17, 837-843	8.4	26
142	Diurnal and Seasonal Variation in Dinitrogen Fixation (Acetylene Reduction) Rates by Field-Grown Soybeans ¹ . <i>Agronomy Journal</i> , 1985 , 77, 679-684	2.2	26
141	Divergence in Drought-resistance Traits among Parents of Recombinant Peanut Inbred Lines. <i>Crop Science</i> , 2013 , 53, 2569-2576	2.4	25
140	Is the Stay-Green Trait in Sorghum a Result of Transpiration Sensitivity to Either Soil Drying or Vapor Pressure Deficit?. <i>Crop Science</i> , 2013 , 53, 2129-2134	2.4	25
139	Transpiration response of Arabidopsis, maize, and soybean to drying of artificial and mineral soil. <i>Environmental and Experimental Botany</i> , 2007 , 59, 188-192	5.9	25
138	Changes in Yield and Seed Growth Traits in Soybean Cultivars Released in the Southern USA from 1945 to 1983. <i>Crop Science</i> , 1993 , 33, 1204-1209	2.4	25
137	Soybean nodule gas permeability, nitrogen fixation and diurnal cycles in soil temperature. <i>Plant and Soil</i> , 1988 , 109, 227-234	4.2	25
136	Assumptions of Plastochron Index: Evaluation With Soya Bean Under Field Drought Conditions. <i>Annals of Botany</i> , 1982 , 50, 673-680	4.1	25
135	Production potential of Lentil (<i>Lens culinaris</i> Medik.) in East Africa. <i>Agricultural Systems</i> , 2015 , 137, 24-38.1		24
134	Hydraulic conductance differences among sorghum genotypes to explain variation in restricted transpiration rates. <i>Functional Plant Biology</i> , 2014 , 41, 270-275	2.7	24
133	Simulation analysis of relative yield advantage of barley and wheat in an eastern Mediterranean climate. <i>Field Crops Research</i> , 2005 , 91, 287-296	5.5	24
132	The Role of Osmotic Potential in Spring Sap Flow of Mature Sugar Maple Trees (<i>Acer saccharum</i> Marsh). <i>Journal of Experimental Botany</i> , 1985 , 36, 12-24	7	24
131	Leaf CER from Post-Flowering to Senescence of Field-grown Soybean Cultivars ¹ . <i>Crop Science</i> , 1980 , 20, 196-200	2.4	24
130	Analysis of Seed Growth by Linear Increase in Harvest Index. <i>Crop Science</i> , 1999 , 39, 486-493	2.4	24
129	The importance of slow canopy wilting in drought tolerance in soybean. <i>Journal of Experimental Botany</i> , 2020 , 71, 642-652	7	24
128	Basis of Slow-Wilting Phenotype in Soybean PI 471938. <i>Crop Science</i> , 2012 , 52, 1261-1269	2.4	23
127	Crop Physiology: Significant Discoveries and Our Changing Perspective on Research. <i>Crop Science</i> , 2006 , 46, 2270-2277	2.4	23

126	Differential sensitivity of C3 and C4 turfgrass species to increasing atmospheric vapor pressure deficit. <i>Environmental and Experimental Botany</i> , 2009 , 67, 372-376	5.9	22
125	Soybean Seed Growth II. Individual Seed Mass and Component Compensation1. <i>Agronomy Journal</i> , 1984 , 76, 128-133	2.2	22
124	Changes in Water Potential During Pressure Bomb Measurement1. <i>Agronomy Journal</i> , 1978 , 70, 353-355	2.2	22
123	Relevance of limited-transpiration trait for lentil (<i>Lens culinaris</i> Medik.) in South Asia. <i>Field Crops Research</i> , 2017 , 209, 96-107	5.5	21
122	Wheat drought-tolerance to enhance food security in Tunisia, birthplace of the Arab Spring. <i>European Journal of Agronomy</i> , 2019 , 107, 1-9	5	21
121	Hydraulic conductance of intact plants of two contrasting sorghum lines, SC15 and SC1205. <i>Functional Plant Biology</i> , 2013 , 40, 730-738	2.7	21
120	A Reminder of the Limitations in Using Beer's Law to Estimate Daily Radiation Interception by Vegetation. <i>Crop Science</i> , 2006 , 46, 2343-2347	2.4	20
119	Seasonal Changes in Morphology and Anatomy of Field-grown Soybean Leaves1. <i>Crop Science</i> , 1980 , 20, 191-196	2.4	20
118	Ureide Accumulation in Response to Mn Nutrition by Eight Soybean Genotypes with N2 Fixation Tolerance to Soil Drying. <i>Crop Science</i> , 2003 , 43, 592	2.4	20
117	Physiological properties of a drought-resistant wild soybean genotype: Transpiration control with soil drying and expression of root morphology. <i>Plant and Soil</i> , 2014 , 374, 359-370	4.2	19
116	Selection of host-plant genotype: the next step to increase grain legume N2 fixation activity. <i>Journal of Experimental Botany</i> , 2018 , 69, 3523-3530	7	18
115	Water relations of turgor recovery and restiffening of wilted cabbage leaves in the absence of water uptake. <i>Plant Physiology</i> , 1989 , 91, 433-9	6.6	18
114	Cessation of Leaf Emergence in Indeterminate Soybeans. <i>Crop Science</i> , 1984 , 24, 483-486	2.4	18
113	Peanut Nitrogen Fixation (C2H2 Reduction) Response to Soil Dehydration. <i>Peanut Science</i> , 1995 , 22, 162-166	1.6	17
112	Variation among Cowpea Genotypes in Sensitivity of Transpiration Rate and Symbiotic Nitrogen Fixation to Soil Drying. <i>Crop Science</i> , 2015 , 55, 2270-2275	2.4	16
111	Model Analysis of Sorghum Response to Nitrogen in Subtropical and Tropical Environments. <i>Agronomy Journal</i> , 1997 , 89, 201-207	2.2	16
110	Atmospheric vapor pressure deficit is critical in predicting growth response of "cool-season" grass <i>Festuca arundinacea</i> to temperature change. <i>Planta</i> , 2007 , 227, 273-6	4.7	16
109	Model of Leaf Area Expansion in Field Pea Subjected to Soil Water Deficits. <i>Agronomy Journal</i> , 1996 , 88, 467-472	2.2	16

108	Extraction of Apoplastic Water during Pressure-Volume Dehydrations ¹ . <i>Agronomy Journal</i> , 1985 , 77, 798-802	2.2	16
107	Silver and zinc inhibitors influence transpiration rate and aquaporin transcript abundance in intact soybean plants. <i>Environmental and Experimental Botany</i> , 2016 , 122, 168-175	5.9	15
106	Mapping Water Stress Incidence and Intensity, Optimal Plant Populations, and Cultivar Duration for African Groundnut Productivity Enhancement. <i>Frontiers in Plant Science</i> , 2017 , 8, 432	6.2	15
105	Effect of Nitrogen Supply on Maize Yield: II. Field and Model Analysis. <i>Agronomy Journal</i> , 1995 , 87, 642-648	2.2	15
104	Resources for Crop Production: Accessing the Unavailable. <i>Trends in Plant Science</i> , 2019 , 24, 121-129	13.1	15
103	Persistence of limited-transpiration-rate trait in sorghum at high temperature. <i>Environmental and Experimental Botany</i> , 2015 , 115, 58-62	5.9	14
102	Geospatial assessment for crop physiological and management improvements with examples using the simple simulation model. <i>Crop Science</i> , 2020 , 60, 700-708	2.4	14
101	Plant Traits to Increase Winter Wheat Yield in Semiarid and Subhumid Environments. <i>Agronomy Journal</i> , 2019 , 111, 1728-1740	2.2	14
100	Measurement of Limited-Transpiration Trait under High Vapor Pressure Deficit for Peanut in Chambers and in Field. <i>Agronomy Journal</i> , 2015 , 107, 1019-1024	2.2	14
99	Leaf Nitrogen Content, Photosynthesis and Radiation Use Efficiency in Peanut ¹ . <i>Peanut Science</i> , 1993 , 20, 40-43	0.3	14
98	Variability Among Plants in Dinitrogen Fixation (Acetylene Reduction) Rates by Field-Grown Soybean ¹ . <i>Agronomy Journal</i> , 1985 , 77, 947-950	2.2	14
97	Gas Exchange of Field-Grown Soybean under Drought ¹ . <i>Agronomy Journal</i> , 1986 , 78, 454-458	2.2	14
96	A Survey of Soybean Cultivars for Variability in Specific Leaf Weight ¹ . <i>Crop Science</i> , 1979 , 19, 887-892	2.4	14
95	Lentil Variation in Phenology and Yield Evaluated with a Model. <i>Agronomy Journal</i> , 2015 , 107, 1967-1977	2.2	13
94	Diversity in Drought Traits among Commercial Southeastern US Peanut Cultivars. <i>International Journal of Agronomy</i> , 2011 , 2011, 1-7	1.9	13
93	Leaf aquaporin transcript abundance in peanut genotypes diverging in expression of the limited-transpiration trait when subjected to differing vapor pressure deficits and aquaporin inhibitors. <i>Physiologia Plantarum</i> , 2016 , 156, 387-96	4.6	13
92	Pot binding as a variable confounding plant phenotype: theoretical derivation and experimental observations. <i>Planta</i> , 2017 , 245, 729-735	4.7	12
91	Inhibitor screen for limited-transpiration trait among maize hybrids. <i>Environmental and Experimental Botany</i> , 2015 , 109, 161-167	5.9	12

90	Penman's sink-strength model as an improved approach to estimating plant canopy transpiration. <i>Agricultural and Forest Meteorology</i> , 2014 , 197, 136-141	5.8	12
89	Transpiration and visual appearance of warm season turfgrasses during soil drying. <i>Environmental and Experimental Botany</i> , 2013 , 89, 36-43	5.9	12
88	Sensitivity of N2 Fixation Traits in Soybean Cultivar Jackson to Manganese. <i>Crop Science</i> , 2002 , 42, 791-794	5.4	12
87	Green revolution still too green. <i>Nature</i> , 1999 , 398, 556-556	50.4	12
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