

Thomas R Sinclair

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.

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	Restrictive irrigation improves yield and reduces risk for faba bean across the Middle East and North Africa: A modeling study. <i>Agricultural Systems</i> , 2021 , 189, 103068	6.1	2
250	Assessing drought tolerance of traditional maize genotypes of Mozambique using chlorophyll fluorescence parameters. <i>South African Journal of Botany</i> , 2021 , 138, 311-317	2.9	1
249	An exploration of the variability of physiological responses to soil drying in relation with C/N balance across three species of the under-utilized genus <i>Vigna</i> . <i>Physiologia Plantarum</i> , 2021 , 172, 477-486	4.6	1
248	Microsphere stem blockage as a screen for nitrogen-fixation drought tolerance in soybean. <i>Physiologia Plantarum</i> , 2021 , 172, 1376-1381	4.6	1
247	Basis of yield component compensation in crop plants with special reference to field bean, <i>Phaseolus vulgaris</i> L. by M. Wayne Adams, <i>Crop Science</i> (1967) 7, 505-510. <i>Crop Science</i> , 2021 , 61, 863-865	2.4	0
246	Studies of the Uptake of Nitrate in Barley. I. Kinetics of $^{13}\text{NO}_3^-$ Influx by M.Y. Siddiqi, A.D.M. Glass, T.J. Ruth, and T.W. Rufty, Jr., <i>Plant Physiology</i> (1990) 93:1426-1432. <i>Crop Science</i> , 2021 , 61, 21-23	2.4	0
245	Transpiration response to vapor pressure deficit and soil drying among quinoa genotypes (<i>Chenopodium quinoa</i> Willd.). <i>Journal of Crop Improvement</i> , 2021 , 35, 291-302	1.4	1
244	Leaf expansion and recovery from soil drying in soybean genotypes. <i>Journal of Crop Improvement</i> , 2021 , 35, 96-110	1.4	0
243	Analysis for Improved Sowing Date for Winter Faba Bean in Morocco. <i>International Journal of Plant Production</i> , 2021 , 15, 513	2.4	0
242	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
241	Leaf gas exchange recovery of soybean from water-deficit stress. <i>Journal of Crop Improvement</i> , 2020 , 34, 785-799	1.4	1
240	Transpiration and crop yields by C.T. de Wit, 1958, Institute of biological and chemical research of field crops and herbage, No. 64.6, Wageningen, the Netherlands. <i>Crop Science</i> , 2020 , 60, 29-31	2.4	2
239	Registration of soybean germplasm lines R10-2436 and R10-2710 with drought tolerance traits and high yield under moderate water stress. <i>Journal of Plant Registrations</i> , 2020 , 14, 189-196	0.7	0
238	Temporal water use by two maize lines differing in leaf osmotic potential. <i>Crop Science</i> , 2020 , 60, 945-953	2.4	4
237	Xylem vessel radii comparison between soybean genotypes differing in tolerance to drought. <i>Journal of Crop Improvement</i> , 2020 , 34, 404-413	1.4	5
236	Water dynamics in the soil-plant-atmosphere system by J.T. Ritchie, <i>Plant and Soil</i> (1981) 58:81-96. <i>Crop Science</i> , 2020 , 60, 541-543	2.4	0
235	Nitrogen-fixation drought tolerance in virginia-type peanut. <i>Journal of Crop Improvement</i> , 2020 , 34, 540-548	1.4	0

234	Seasonal and climatic variation of weighted VPD for transpiration estimation. <i>European Journal of Agronomy</i> , 2020 , 113, 125966	5	3
233	Cycling of amino-nitrogen and other nutrients between shoots and roots in cereals: a possible mechanism integrating shoot and root in the regulation of nutrient uptake by H.D. Cooper and D.T. Clarkson, <i>Journal of Experimental Botany</i> (1989) 40:753-762. <i>Crop Science</i> , 2020 , 60, 2192-2194	2.4	1
232	Basis of limited-transpiration rate under elevated vapor pressure deficit and high temperature among sweet corn cultivars. <i>Environmental and Experimental Botany</i> , 2020 , 179, 104205	5.9	1
231	Sleep tight and wake-up early: nocturnal transpiration traits to increase wheat drought tolerance in a Mediterranean environment. <i>Functional Plant Biology</i> , 2020 , 47, 1117-1127	2.7	9
230	Abscisic Acid and Sulfate Offer a Possible Explanation for Differences in Physiological Drought Response of Two Maize Near-Isolines. <i>Plants</i> , 2020 , 9,	4.5	2
229	The importance of slow canopy wilting in drought tolerance in soybean. <i>Journal of Experimental Botany</i> , 2020 , 71, 642-652	7	24
228	Plant-based predictions of canopy transpiration instead of meteorological approximations. <i>Crop Science</i> , 2020 , 60, 1133-1141	2.4	2
227	Increasing Photosynthesis: Unlikely Solution For World Food Problem. <i>Trends in Plant Science</i> , 2019 , 24, 1032-1039	13.1	45
226	The Biological Yield and Harvest Index of Cereals as Agronomic and Plant Breeding Criteria by C.M. Donald and J. Hamblin, <i>Advances in Agronomy</i> (1976) 28:361-405. <i>Crop Science</i> , 2019 , 59, 850-852	2.4	1
225	Root osmotic potential and length for two maize lines differing in leaf osmotic potential. <i>Journal of Crop Improvement</i> , 2019 , 33, 429-444	1.4	3
224	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
223	Three-dimensional reconstruction of soybean nodules provides an update on vascular structure. <i>American Journal of Botany</i> , 2019 , 106, 507-513	2.7	4
222	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
221	Strategies to Enhance Drought Tolerance in Peanut and Molecular Markers for Crop Improvement. <i>Sustainable Development and Biodiversity</i> , 2019 , 131-143	2.1	1
220	Plant Traits to Increase Winter Wheat Yield in Semiarid and Subhumid Environments. <i>Agronomy Journal</i> , 2019 , 111, 1728-1740	2.2	14
219	Influence of plant density and growth habit of common bean on leaf area development and N accumulation. <i>Journal of Crop Improvement</i> , 2019 , 33, 620-632	1.4	3
218	Unraveling the genetic architecture for carbon and nitrogen related traits and leaf hydraulic conductance in soybean using genome-wide association analyses. <i>BMC Genomics</i> , 2019 , 20, 811	4.5	7
217	Natural Evaporation from Open Water, Bare Soil and Grass by Harold L. Penman, <i>Proceedings of the Royal Society of London</i> (1948) A193:120-146. <i>Crop Science</i> , 2019 , 59, 2297-2299	2.4	4

216	Resources for Crop Production: Accessing the Unavailable. <i>Trends in Plant Science</i> , 2019 , 24, 121-129	13.1	15
215	Temperature effect on peanut (<i>Arachis hypogaea</i> L.) transpiration response to vapor pressure deficit and its recovery. <i>Journal of Crop Improvement</i> , 2019 , 33, 177-186	1.4	6
214	A Model for Simulating Photosynthesis in Plant Communities by W.G. Duncan, R.S. Loomis, W.A. Williams, and R. Hanau, Hilgardia (1967) 38:181-205. <i>Crop Science</i> , 2019 , 59, 15-18	2.4	
213	Inheritance of limited-transpiration trait in peanut: an update. <i>Journal of Crop Improvement</i> , 2018 , 32, 281-286	1.4	6
212	Nitrogen Fixation Establishment during Initial Growth of Grain Legume Species. <i>Journal of Crop Improvement</i> , 2018 , 32, 50-58	1.4	2
211	Selection of host-plant genotype: the next step to increase grain legume N ₂ fixation activity. <i>Journal of Experimental Botany</i> , 2018 , 69, 3523-3530	7	18
210	Partitioning between evaporation and transpiration from <i>Agrostis stolonifera</i> L. during light and dark periods. <i>Agricultural and Forest Meteorology</i> , 2018 , 260-261, 73-79	5.8	4
209	Is nitrogen accumulation in grain legumes responsive to growth or ontogeny?. <i>Physiologia Plantarum</i> , 2018 , 162, 109-122	4.6	3
208	Effective Water Use Required for Improving Crop Growth Rather Than Transpiration Efficiency. <i>Frontiers in Plant Science</i> , 2018 , 9, 1442	6.2	30
207	Expression of Drought-Tolerant N ₂ Fixation in Heterogeneous Inbred Families derived from PI471938 and Hutcheson Soybean. <i>Crop Science</i> , 2018 , 58, 364-369	2.4	8
206	Identification of Virginia-Type Peanut Genotypes for Water-Deficit Conditions Based on Early Decrease in Transpiration Rate with Soil Drying. <i>Crop Science</i> , 2018 , 58, 2607-2612	2.4	8
205	Aquaporin Activity to Improve Crop Drought Tolerance. <i>Cells</i> , 2018 , 7,	7.9	46
204	A Biometeorological Time Scale for Cereal Crop Involving Day and Night Temperatures and Photoperiod by George W. Robertson, International Journal of Biometeorology (1968) 12:191-223. <i>Crop Science</i> , 2018 , 58, 2229-2232	2.4	
203	Sowing date and mulch to improve water use and yield of wheat and barley in the Middle East environment. <i>Agricultural Systems</i> , 2018 , 165, 26-32	6.1	6
202	Leaf emergence (phyllochron index) and leaf expansion response to soil drying in cowpea genotypes. <i>Physiologia Plantarum</i> , 2017 , 160, 201-208	4.6	5
201	Assessing transpiration estimates in tall fescue: The relationship among transpiration, growth, and vapor pressure deficits. <i>Environmental and Experimental Botany</i> , 2017 , 137, 119-127	5.9	7
200	Yield comparison of simulated rainfed wheat and barley across Middle-East. <i>Agricultural Systems</i> , 2017 , 153, 101-108	6.1	10
199	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

198	Limited-transpiration response to high vapor pressure deficit in crop species. <i>Plant Science</i> , 2017 , 260, 109-118	5.3	54
197	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
196	Assessing water-related plant traits to explain slow-wilting in soybean PI 471938. <i>Journal of Crop Improvement</i> , 2017 , 31, 400-417	1.4	7
195	Early Partial Stomata Closure with Soil Drying. <i>SpringerBriefs in Environmental Science</i> , 2017 , 5-9	0.5	4
194	Limited-Transpiration Rate Under Elevated Atmospheric Vapor Pressure Deficit. <i>SpringerBriefs in Environmental Science</i> , 2017 , 11-16	0.5	2
193	Expression of the limited-transpiration trait under high vapour pressure deficit in peanut populations: Runner and virginia types. <i>Journal of Agronomy and Crop Science</i> , 2017 , 203, 295-300	3.9	7
192	Pot binding as a variable confounding plant phenotype: theoretical derivation and experimental observations. <i>Planta</i> , 2017 , 245, 729-735	4.7	12
191	Opportunities to improve the seasonal dynamics of water use in lentil (<i>Lens culinaris</i> Medik.) to enhance yield increase in water-limited environments. <i>Chemical and Biological Technologies in Agriculture</i> , 2017 , 4,	4.4	6
190	Leaf Expansion and Transpiration Response to Soil Drying and Recovery among Cowpea Genotypes. <i>Crop Science</i> , 2017 , 57, 2109-2116	2.4	6
189	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
188	Soybean. <i>SpringerBriefs in Environmental Science</i> , 2017 , 17-26	0.5	4
187	Limited transpiration under high vapor pressure deficits of creeping bentgrass by application of Daconil-Action. <i>Planta</i> , 2016 , 243, 421-7	4.7	6
186	Transpiration and Nitrogen Fixation Recovery Capacity in Soybean Following Drought Stress. <i>Journal of Crop Improvement</i> , 2016 , 30, 562-571	1.4	5
185	Hydraulic Conductivity Changes in Soybean Plant-Soil System with Decreasing Soil Volumetric Water Content. <i>Journal of Crop Improvement</i> , 2016 , 30, 713-723	1.4	1
184	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
183	Limited-Transpiration Trait for Increased Yield for Water-Limited Soybean: From Model to Phenotype to Genotype to Cultivars 2016 , 129-146		7
182	Sowing Density Effect on Common Bean Leaf Area Development. <i>Crop Science</i> , 2016 , 56, 2713-2721	2.4	12
181	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

180	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
179	Quantifying Leaf Area Development Parameters for Cowpea [<i>Vigna unguiculata</i> (L.) Walpers]. <i>Crop Science</i> , 2016 , 56, 3209-3217	2.4	1
178	Using an Arrhenius-type function to describe temperature response of plant developmental processes: inference and cautions. <i>New Phytologist</i> , 2016 , 210, 377-9	9.8	1
177	Physiological phenotyping of plants for crop improvement. <i>Trends in Plant Science</i> , 2015 , 20, 139-44	13.1	120
176	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
175	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
174	Inhibitor screen for limited-transpiration trait among maize hybrids. <i>Environmental and Experimental Botany</i> , 2015 , 109, 161-167	5.9	12
173	Persistence of limited-transpiration-rate trait in sorghum at high temperature. <i>Environmental and Experimental Botany</i> , 2015 , 115, 58-62	5.9	14
172	Production potential of Lentil (<i>Lens culinaris</i> Medik.) in East Africa. <i>Agricultural Systems</i> , 2015 , 137, 24-38.1	24	
171	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
170	Lentil Variation in Phenology and Yield Evaluated with a Model. <i>Agronomy Journal</i> , 2015 , 107, 1967-1977.2	13	
169	Rooting Front and Water Uptake: What You See and Get May Differ. <i>Agronomy Journal</i> , 2015 , 107, 1766-1770	2	
168	Plant Survival of Drought During Establishment: An Interspecific Comparison of Five Grain Legumes. <i>Crop Science</i> , 2015 , 55, 1264-1273	2.4	1
167	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
166	Comparisons of the Effects of Elevated Vapor Pressure Deficit on Gene Expression in Leaves among Two Fast-Wilting and a Slow-Wilting Soybean. <i>PLoS ONE</i> , 2015 , 10, e0139134	3.7	10
165	Limited-Transpiration Trait May Increase Maize Drought Tolerance in the US Corn Belt. <i>Agronomy Journal</i> , 2015 , 107, 1978-1986	2.2	110
164	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
163	Chemical Screen for Limited-Transpiration-Rate Trait Among Sorghum Genotypes. <i>Journal of Crop Improvement</i> , 2014 , 28, 377-389	1.4	5

162	Soybean production potential in Africa. <i>Global Food Security</i> , 2014 , 3, 31-40	8.3	79
161	Evaluation of Elite Southern Maturity Soybean Breeding Lines for Drought-Tolerant Traits. <i>Agronomy Journal</i> , 2014 , 106, 1947-1954	2.2	47
160	Hydraulic Conductance of Maize Hybrids Differing in Transpiration Response to Vapor Pressure Deficit. <i>Crop Science</i> , 2014 , 54, 1147-1152	2.4	29
159	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
158	Genetic variation in peanut leaf maintenance and transpiration recovery from severe soil drying. <i>Field Crops Research</i> , 2014 , 158, 65-72	5.5	8
157	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
156	Estimation of Soil Evaporation During Fallow Seasons to Assess Water Balances for No-Tillage Crop Rotations. <i>Journal of Agronomy and Crop Science</i> , 2013 , 199, 57-65	3.9	9
155	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
154	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
153	Nitrogen fixation tolerance to soil water deficit among commercial cultivars and breeding lines of peanut. <i>Field Crops Research</i> , 2013 , 149, 127-132	5.5	8
152	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
151	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
150	Transpiration and visual appearance of warm season turfgrasses during soil drying. <i>Environmental and Experimental Botany</i> , 2013 , 89, 36-43	5.9	12
149	Divergence in Drought-resistance Traits among Parents of Recombinant Peanut Inbred Lines. <i>Crop Science</i> , 2013 , 53, 2569-2576	2.4	25
148	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
147	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
146	Fixation Drought Tolerance of the Slow-Wilting Soybean PI 471938. <i>Crop Science</i> , 2013 , 53, 2072-2078	2.4	33
145	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

144	Transpiration response of de-rooted peanut plants to aquaporin inhibitors. <i>Environmental and Experimental Botany</i> , 2012 , 78, 167-172	5.9	35
143	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
142	Identification of QTLs associated with limited leaf hydraulic conductance in soybean. <i>Euphytica</i> , 2012 , 186, 679-686	2.1	32
141	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
140	The future of grain legumes in cropping systems. <i>Crop and Pasture Science</i> , 2012 , 63, 501	2.2	62
139	Basis of Slow-Wilting Phenotype in Soybean PI 471938. <i>Crop Science</i> , 2012 , 52, 1261-1269	2.4	23
138	Genotypic variation within sorghum for transpiration response to drying soil. <i>Plant and Soil</i> , 2012 , 357, 35-40	4.2	37
137	Identifying plant traits to increase chickpea yield in water-limited environments. <i>Field Crops Research</i> , 2012 , 133, 186-196	5.5	4
136	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
135	ZINC TREATMENT RESULTS IN TRANSPIRATION RATE DECREASES THAT VARY AMONG SOYBEAN GENOTYPES. <i>Journal of Plant Nutrition</i> , 2012 , 35, 1866-1877	2.3	8
134	Is transpiration efficiency a viable plant trait in breeding for crop improvement?. <i>Functional Plant Biology</i> , 2012 , 39, 359-365	2.7	91
133	Challenges in breeding for yield increase for drought. <i>Trends in Plant Science</i> , 2011 , 16, 289-93	13.1	148
132	A simple model for chickpea development, growth and yield. <i>Field Crops Research</i> , 2011 , 124, 252-260	5.5	44
131	Diversity in Drought Traits among Commercial Southeastern US Peanut Cultivars. <i>International Journal of Agronomy</i> , 2011 , 2011, 1-7	1.9	13
130	Tolerance of Three Warm-season Turfgrasses to Increasing and Prolonged Soil Water Deficit. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 2011 , 46, 1550-1555	2.4	9
129	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
128	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
127	Precipitation: The Thousand-Pound Gorilla in Crop Response to Climate Change. <i>ICP Series on Climate Change Impacts, Adaptation, and Mitigation</i> , 2010 , 179-190		5

126	Genetic variability of transpiration response to vapor pressure deficit among sorghum genotypes. <i>Field Crops Research</i> , 2010 , 119, 85-90	5.5	112
125	Genotypic Variation in Peanut for Transpiration Response to Vapor Pressure Deficit. <i>Crop Science</i> , 2010 , 50, 191-196	2.4	90
124	Assessment across the United States of the Benefits of Altered Soybean Drought Traits. <i>Agronomy Journal</i> , 2010 , 102, 475-482	2.2	180
123	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
122	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
121	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
120	Crop rotations in Argentina: Analysis of water balance and yield using crop models. <i>Agricultural Systems</i> , 2009 , 102, 11-16	6.1	33
119	Influence of Plant Phosphorus and Iron Concentrations on Growth of Soybean. <i>Journal of Plant Nutrition</i> , 2009 , 32, 1513-1526	2.3	8
118	Genetic Variability of Transpiration Response to Vapor Pressure Deficit among Soybean Cultivars. <i>Crop Science</i> , 2009 , 49, 955-960	2.4	63
117	Growth and Evapotranspiration Response of Two Turfgrass Species to Nitrogen and Trinexapac-ethyl. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 2009 , 44, 2053-2057	2.4	10
116	Low leaf hydraulic conductance associated with drought tolerance in soybean. <i>Physiologia Plantarum</i> , 2008 , 132, 446-51	4.6	164
115	Foliage freeze tolerance trait diversity in bahiagrass (<i>Paspalum notatum</i> Flüge). <i>New Zealand Journal of Agricultural Research</i> , 2008 , 51, 191-198	1.9	1
114	Comment on Theoretical Analysis of Soil and Plant Traits Influencing Daily Plant Water Flux on Drying Soils by T.R. Sinclair. <i>Agron. J.</i> 97:1148-1152 (2005). <i>Agronomy Journal</i> , 2007 , 99, 1188-1189	2.2	3
113	Ecological and evolutionary consequences of desiccation tolerance in tropical fern gametophytes. <i>New Phytologist</i> , 2007 , 176, 708-717	9.8	130
112	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
111	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
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	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

108	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
107	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
106	Crop Physiology: Significant Discoveries and Our Changing Perspective on Research. <i>Crop Science</i> , 2006 , 46, 2270-2277	2.4	23
105	Variation in Manganese and Iron Accumulation Among Soybean Genotypes Growing on Hydroponic Solutions of Differing Manganese and Nitrate Concentrations. <i>Journal of Plant Nutrition</i> , 2005 , 28, 521-533	2.3	8
104	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
103	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
102	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
101	Daily transpiration rates of woody species on drying soil. <i>Tree Physiology</i> , 2005 , 25, 1469-72	4.2	50
100	Is a physiological perspective relevant in a 'genocentric' age?. <i>Journal of Experimental Botany</i> , 2005 , 56, 2777-82	7	64
99	Crop transformation and the challenge to increase yield potential. <i>Trends in Plant Science</i> , 2004 , 9, 70-5	13.1	261
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