Thomas R Sinclair

List of Publications by Year
in descending order

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255 papers	14,803 citations	16437 64 h-index	23514 111 g-index
257 all docs	257 docs citations	257 times ranked	8645 citing authors

#	Article	IF	Citations
1	Leaf Nitrogen, Photosynthesis, and Crop Radiation Use Efficiency: A Review. Crop Science, 1989, 29, 90-98.	0.8	939
2	Radiation Use Efficiency. Advances in Agronomy, 1999, 65, 215-265.	2.4	634
3	Photosynthate and Nitrogen Requirements for Seed Production by Various Crops. Science, 1975, 189, 565-567.	6.0	563
4	Water-Use Efficiency in Crop Production. BioScience, 1984, 34, 36-40.	2.2	457
5	Temperature and Solar Radiation Effects on Potential Maize Yield across Locations. Agronomy Journal, 1990, 82, 338-343.	0.9	313
6	Crop transformation and the challenge to increase yield potential. Trends in Plant Science, 2004, 9, 70-75.	4.3	304
7	Historical Changes in Harvest Index and Crop Nitrogen Accumulation. Crop Science, 1998, 38, 638-643.	0.8	301
8	Symbiotic N2 fixation response to drought. Journal of Experimental Botany, 1999, 50, 143-155.	2.4	299
9	Analysis of the Carbon and Nitrogen Limitations to Soybean Yield¹. Agronomy Journal, 1976, 68, 319-324.	0.9	288
10	Transpiration responses to vapor pressure deficit in well watered â€˜slow-wiltingâ€™ and commercial soybean. Environmental and Experimental Botany, 2007, 61, 145-151.	2.0	278
11	Nitrogen and water resources commonly limit crop yield increases, not necessarily plant genetics. Global Food Security, 2012, 1, 94-98.	4.0	252
12	Crop Modeling: From Infancy to Maturity. Agronomy Journal, 1996, 88, 698-704.	0.9	246
13	Assessment across the United States of the Benefits of Altered Soybean Drought Traits. Agronomy Journal, 2010, 102, 475-482.	0.9	227
14	Potential yield and water-use efficiency benefits in sorghum from limited maximum transpiration rate. Functional Plant Biology, 2005, 32, 945.	1.1	226
15	System Analysis of Plant Traits to Increase Grain Yield on Limited Water Supplies. Agronomy Journal, 2001, 93, 263-270.	0.9	212
16	Challenges in breeding for yield increase for drought. Trends in Plant Science, 2011, 16, 289-293.	4.3	195
17	Low leaf hydraulic conductance associated with drought tolerance in soybean. Physiologia Plantarum, 2008, 132, 446-451.	2.6	186
18	The effect of pot size on growth and transpiration of maize and soybean during water deficit stress. Journal of Experimental Botany, 1998, 49, 1381-1386.	2.4	177

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19	Erect Leaves and Photosynthesis in Rice. Science, 1999, 283, 1455c-1455.	6.0	177
20	Physiological phenotyping of plants for crop improvement. Trends in Plant Science, 2015, 20, 139-144.	4.3	171
21	Ecological and evolutionary consequences of desiccation tolerance in tropical fern gametophytes. New Phytologist, 2007, 176, 708-717.	3.5	159
22	Limitedâ€Transpiration Trait May Increase Maize Drought Tolerance in the US Corn Belt. Agronomy Journal, 2015, 107, 1978-1986.	0.9	158
23	Drought tolerance and yield increase of soybean resulting from improved symbiotic N2 fixation. Field Crops Research, 2007, 101, 68-71.	2.3	148
24	Variation in Crop Radiationâ€Use Efficiency with Increased Diffuse Radiation. Crop Science, 1992, 32, 1281-1284.	0.8	144
25	Genetic variability of transpiration response to vapor pressure deficit among sorghum genotypes. Field Crops Research, 2010, 119, 85-90.	2.3	144
26	Criteria for publishing papers on crop modeling. Field Crops Research, 2000, 68, 165-172.	2.3	135
27	Legume nitrogen fixation and drought. Nature, 1995, 378, 344-344.	13.7	133
28	Stomatal Closure of Maize Hybrids in Response to Drying Soil. Crop Science, 1997, 37, 803-807.	0.8	133
29	Water Deficit Effects on Maize Yields Modeled under Current and â€œGreenhouseâ€•Climates. Agronomy Journal, 1991, 83, 1052-1059.	0.9	127
30	Temperature effect on transpiration response of maize plants to vapour pressure deficit. Environmental and Experimental Botany, 2012, 78, 157-162.	2.0	125
31	Response to Drought Stress of Nitrogen Fixation (Acetylene Reduction) Rates by Field-Grown Soybeans. Plant Physiology, 1985, 78, 525-530.	2.3	119
32	Is transpiration efficiency a viable plant trait in breeding for crop improvement?. Functional Plant Biology, 2012, 39, 359.	1.1	111
33	Physiological traits for crop yield improvement in low N and P environments. Plant and Soil, 2002, 245, 1-15.	1.8	108
34	Limited-transpiration response to high vapor pressure deficit in crop species. Plant Science, 2017, 260, 109-118.	1.7	108
35	Genotypic Variation in Peanut for Transpiration Response to Vapor Pressure Deficit. Crop Science, 2010, 50, 191-196.	0.8	105
36	Soybean genotypic differences in sensitivity of symbiotic nitrogen fixation to soil dehydration. Plant and Soil, 1991, 133, 31-37.	1.8	101

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37	Transpiration response of â€˜slow-wiltingâ€™ and commercial soybean (Glycine max (L.) Merr.) genotypes to three aquaporin inhibitors. Journal of Experimental Botany, 2010, 61, 821-829.	2.4	101
38	Soybean production potential in Africa. Global Food Security, 2014, 3, 31-40.	4.0	100
39	Field Pea Transpiration and Leaf Growth in Response to Soil Water Deficits. Crop Science, 1996, 36, 331-335.	0.8	95
40	Epidermal conductance, stomatal density and stomatal size among genotypes of Sorghum bicolor (L.) Moench. Plant, Cell and Environment, 1989, 12, 425-431.	2.8	94
41	Relative Sensitivity of Nitrogen and Biomass Accumulation to Drought in Fieldâ€Grown Soybean 1. Agronomy Journal, 1987, 79, 986-991.	0.9	93
42	Asparagine and ureide accumulation in nodules and shoots as feedback inhibitors of N2 fixation in soybean. Physiologia Plantarum, 2000, 110, 215-223.	2.6	93
43	The effect of vapor pressure deficit on maize transpiration response to a drying soil. Plant and Soil, 2002, 239, 113-121.	1.8	93
44	Transpiration Response of Maize Hybrids to Atmospheric Vapour Pressure Deficit. Journal of Agronomy and Crop Science, 2013, 199, 155-160.	1.7	92
45	Accumulation of Î³-aminobutyric acid in nodulated soybean in response to drought stress. Physiologia Plantarum, 1998, 102, 79-86.	2.6	88
46	An analysis of errors in the calculation of energy flux densities above vegetation by a Bowen-ratio profile method. Boundary-Layer Meteorology, 1975, 8, 129-139.	1.2	85
47	Relative Sensitivity of Grain Yield and Biomass Accumulation to Drought in Fieldâ€Grown Maize. Crop Science, 1990, 30, 690-693.	0.8	85
48	Soybean N₂ Fixation Estimates, Ureide Concentration, and Yield Responses to Drought. Crop Science, 2004, 44, 484-492.	0.8	84
49	Increasing Photosynthesis: Unlikely Solution ForÂWorld Food Problem. Trends in Plant Science, 2019, 24, 1032-1039.	4.3	84
50	Theoretical Analysis of Soil and Plant Traits Influencing Daily Plant Water Flux on Drying Soils. Agronomy Journal, 2005, 97, 1148-1152.	0.9	83
51	The future of grain legumes in cropping systems. Crop and Pasture Science, 2012, 63, 501.	0.7	83
52	Effect of Nitrogen Supply on Maize Yield: I. Modeling Physiological Responses. Agronomy Journal, 1995, 87, 632-641.	0.9	80
53	Distribution of Nitrogen among Leaves in Soybean Canopies. Crop Science, 1993, 33, 804-808.	0.8	79
54	Processes Contributing to N₂â€Fixation Intensitivity to Drought in the Soybean Cultivar Jackson. Crop Science, 1996, 36, 961-968.	0.8	79

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55	Genetic Variability of Transpiration Response to Vapor Pressure Deficit among Soybean Cultivars. Crop Science, 2009, 49, 955-960.	0.8	77
56	Is a physiological perspective relevant in a â€˜genocentricâ€™ age?*. Journal of Experimental Botany, 2005, 56, 2777-2782.	2.4	76
57	Leaf Area Development in Fieldâ€Grown Soybeans 1. Agronomy Journal, 1984, 76, 141-146.	0.9	75
58	Inadequacy of the Liebig Limitingâ€Factor Paradigm for Explaining Varying Crop Yields. Agronomy Journal, 1993, 85, 742-746.	0.9	73
59	Soybean nodulation and N2fixation response to drought under carbon dioxide enrichment. Plant, Cell and Environment, 1998, 21, 491-500.	2.8	73
60	Stability of Soybean Harvest Index¹. Agronomy Journal, 1984, 76, 482-486.	0.9	72
61	Soybean Radiationâ€Use Efficiency as Influenced by Nonuniform Specific Leaf Nitrogen Distribution and Diffuse Radiation. Crop Science, 1993, 33, 808-812.	0.8	70
62	Identification of Soybean Genotypes with N₂ Fixation Tolerance to Water Deficits. Crop Science, 2000, 40, 1803-1809.	0.8	70
63	Soybean Flowering Date: Linear and Logistic Models Based on Temperature and Photoperiod. Crop Science, 1991, 31, 786-790.	0.8	68
64	Aquaporin Activity to Improve Crop Drought Tolerance. Cells, 2018, 7, 123.	1.8	68
65	Leaf ureide degradation and N2 fixation tolerance to water deficit in soybean1. Journal of Experimental Botany, 2001, 52, 153-159.	2.4	67
66	Allometric approach to crop nutrition and implications for crop diagnosis and phenotyping. A review. Agronomy for Sustainable Development, 2019, 39, 1.	2.2	67
67	Feedback regulation of symbiotic N2 fixation under drought stress. Agronomy for Sustainable Development, 2001, 21, 621-626.	0.8	67
68	Evaluation of Elite Southern Maturity Soybean Breeding Lines for Droughtâ€Tolerant Traits. Agronomy Journal, 2014, 106, 1947-1954.	0.9	63
69	Mapping of quantitative trait loci for canopy-wilting trait in soybean (Glycine max L. Merr). Theoretical and Applied Genetics, 2012, 125, 837-846.	1.8	61
70	Leaf Elongation and Turgor Pressure in Fieldâ€grown Soybean¹. Agronomy Journal, 1978, 70, 761-764.	0.9	59
71	A Peanut Simulation Model: I. Model Development and Testing. Agronomy Journal, 1995, 87, 1085-1093.	0.9	59
72	Daily transpiration rates of woody species on drying soil. Tree Physiology, 2005, 25, 1469-1472.	1.4	59

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73	Water Relations of Fieldâ€Grown Soybean under Drought¹. Crop Science, 1986, 26, 993-998.	0.8	57
74	Light effects on rhizome morphogenesis in nutsedges (Cyperusspp.): implications for control by soil solarization. Weed Science, 1998, 46, 575-580.	0.8	57
75	Linear Increase in Soybean Harvest Index during Seedâ€Filling¹. Agronomy Journal, 1985, 77, 207-211.	0.9	54
76	A simple model for chickpea development, growth and yield. Field Crops Research, 2011, 124, 252-260.	2.3	52
77	Comparison of common bean (Phaseolus vulgaris L.) genotypes for nitrogen fixation tolerance to soil drying. Plant and Soil, 2013, 364, 29-37.	1.8	52
78	Variation among Soybean Cultivars in Dinitrogen Fixation Response to Drought. Agronomy Journal, 1997, 89, 963-969.	0.9	51
79	Registration of Soybean Germplasm Lines R01â€416F and R01â€581F for Improved Yield and Nitrogen Fixation under Drought Stress. Journal of Plant Registrations, 2007, 1, 166-167.	0.4	50
80	Effective Water Use Required for Improving Crop Growth Rather Than Transpiration Efficiency. Frontiers in Plant Science, 2018, 9, 1442.	1.7	49
81	The importance of slow canopy wilting in drought tolerance in soybean. Journal of Experimental Botany, 2020, 71, 642-652.	2.4	49
82	Soybean leaf growth and gas exchange response to drought under carbon dioxide enrichment. Global Change Biology, 1999, 5, 283-291.	4.2	48
83	Genetic Variability of Transpiration Response of Soybean [Glycine max (L.) Merr.] Shoots to Leaf Hydraulic Conductance Inhibitor AgNO₃. Crop Science, 2010, 50, 1423-1430.	0.8	48
84	Extractable Soil Water and Transpiration Rate of Soybean on Sandy Soils. Agronomy Journal, 1998, 90, 363-368.	0.9	47
85	Hydraulic Conductance of Maize Hybrids Differing in Transpiration Response to Vapor Pressure Deficit. Crop Science, 2014, 54, 1147-1152.	0.8	47
86	Genotypic variation within sorghum for transpiration response to drying soil. Plant and Soil, 2012, 357, 35-40.	1.8	46
87	Ureide concentration of fieldâ€grown soybean in response to drought and the relationship to nitrogen fixation. Journal of Plant Nutrition, 1998, 21, 949-966.	0.9	44
88	Growth and Yield of Field-Grown Soybean in Response to Enhanced Exposure to Ultraviolet-B Radiation. Journal of Environmental Quality, 1990, 19, 478-481.	1.0	44
89	Genetic variability of transpiration response to vapor pressure deficit among soybean (Glycine max [L.]) Tj ETQq1 1 0.784314 rgBT /O 156-160.	2.3	43
90	Temperature interactions with transpiration response to vapor pressure deficit among cultivated and wild soybean genotypes. Physiologia Plantarum, 2013, 148, 62-73.	2.6	43

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91	Nitrogen accumulation and nodule activity of field-grown â€˜Jacksonâ€™ soybean in response to water deficits. Field Crops Research, 1997, 52, 109-116.	2.3	42
92	Transpiration Sensitivity to Evaporative Demand Across 120ÂYears of Breeding of Australian Wheat Cultivars. Journal of Agronomy and Crop Science, 2017, 203, 219-226.	1.7	42
93	A comparison of four wheat models with respect to robustness and transparency: Simulation in a temperate, sub-humid environment. Field Crops Research, 2015, 175, 37-46.	2.3	41
94	Maize Hybrid Variability for Transpiration Decrease with Progressive Soil Drying. Journal of Agronomy and Crop Science, 2013, 199, 23-29.	1.7	40
95	Fixation Drought Tolerance of the Slowâ€Wilting Soybean PI 471938. Crop Science, 2013, 53, 2072-2078.	0.8	40
96	Genotypic variability among peanut (Arachis hypogea L.) in sensitivity of nitrogen fixation to soil drying. Plant and Soil, 2010, 330, 139-148.	1.8	38
97	Transpiration response of de-rooted peanut plants to aquaporin inhibitors. Environmental and Experimental Botany, 2012, 78, 167-172.	2.0	38
98	Variation Among Maize Hybrids in Response to High Vapor Pressure Deficit at High Temperatures. Crop Science, 2016, 56, 392-396.	0.8	38
99	Nitrogen Partitioning and Dry Matter Allocation in Soybeans with Different Seed Protein Concentration 1. Crop Science, 1985, 25, 451-455.	0.8	37
100	Crop rotations in Argentina: Analysis of water balance and yield using crop models. Agricultural Systems, 2009, 102, 11-16.	3.2	37
101	Basis of Slowâ€Wilting Phenotype in Soybean PI 471938. Crop Science, 2012, 52, 1261-1269.	0.8	37
102	Model analysis of plant traits leading to prolonged crop survival during severe drought. Field Crops Research, 2000, 68, 211-217.	2.3	36
103	Identification of QTLs associated with limited leaf hydraulic conductance in soybean. Euphytica, 2012, 186, 679-686.	0.6	35
104	Hydraulic conductance differences among sorghum genotypes to explain variation in restricted transpiration rates. Functional Plant Biology, 2014, 41, 270.	1.1	35
105	Wheat drought-tolerance to enhance food security in Tunisia, birthplace of the Arab Spring. European Journal of Agronomy, 2019, 107, 1-9.	1.9	35
106	Genotypic Variation in Soybean Nodule Number and Weight. Crop Science, 1991, 31, 301-304.	0.8	34
107	Manganese application alleviates the water deficitâ€induced decline of N2fixation. Plant, Cell and Environment, 2000, 23, 497-505.	2.8	34
108	Divergence in Droughtâ€resistance Traits among Parents of Recombinant Peanut Inbred Lines. Crop Science, 2013, 53, 2569-2576.	0.8	34

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109	Leaf expansion of soybean subjected to high and low atmospheric vapour pressure deficits. Journal of Experimental Botany, 2015, 66, 1845-1850.	2.4	34
110	Changes in Yield and Seed Growth Traits in Soybean Cultivars Released in the Southern USA from 1945 to 1983. Crop Science, 1993, 33, 1204-1209.	0.8	33
111	Short photoperiod inhibits winter growth of subtropical grasses. Planta, 2001, 213, 488-491.	1.6	33
112	Temperature influences the ability of tall fescue to control transpiration in response to atmospheric vapour pressure deficit. Functional Plant Biology, 2012, 39, 979.	1.1	33
113	Leaf ureide degradation and N(2) fixation tolerance to water deficit in soybean. Journal of Experimental Botany, 2001, 52, 153-9.	2.4	33
114	Nodule gas exchange and water potential response to rapid imposition of water deficit. Plant, Cell and Environment, 1995, 18, 179-187.	2.8	32
115	Diurnal and Seasonal Variation in Dinitrogen Fixation (Acetylene Reduction) Rates by Fieldâ€“Grown Soybeans¹. Agronomy Journal, 1985, 77, 679-684.	0.9	31
116	Is the Stayâ€Green Trait in Sorghum a Result of Transpiration Sensitivity to Either Soil Drying or Vapor Pressure Deficit?. Crop Science, 2013, 53, 2129-2134.	0.8	31
117	Analysis of Seed Growth by Linear Increase in Harvest Index. Crop Science, 1999, 39, 486-493.	0.8	30
118	Changes in Water Potential During Pressure Bomb Measurement 1. Agronomy Journal, 1978, 70, 353-355.	0.9	29
119	The Role of Osmotic Potential in Spring Sap Flow of Mature Sugar Maple Trees (Acer saccharum) Tj ETQq1 1 0.784314 rgBT /Overlock	2.4	29
120	An osmotic hypothesis for the regulation of oxygen permeability in soybean nodules. Plant, Cell and Environment, 1994, 17, 837-843.	2.8	29
121	Simulation analysis of relative yield advantage of barley and wheat in an eastern Mediterranean climate. Field Crops Research, 2005, 91, 287-296.	2.3	29
122	A Reminder of the Limitations in Using Beer's Law to Estimate Daily Radiation Interception by Vegetation. Crop Science, 2006, 46, 2343-2347.	0.8	29
123	Relevance of limited-transpiration trait for lentil (Lens culinaris Medik.) in South Asia. Field Crops Research, 2017, 209, 96-107.	2.3	29
124	Soybean nodule gas permeability, nitrogen fixation and dirunal cycles in soil temperature. Plant and Soil, 1988, 109, 227-234.	1.8	28
125	Crop Physiology: Significant Discoveries and Our Changing Perspective on Research. Crop Science, 2006, 46, 2270-2277.	0.8	28
126	Production potential of Lentil (Lens culinaris Medik.) in East Africa. Agricultural Systems, 2015, 137, 24-38.	3.2	28

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127	Assumptions of Plastochron Index: Evaluation With Soya Bean Under Field Drought Conditions. Annals of Botany, 1982, 50, 673-680.	1.4	27
128	Transpiration response of Arabidopsis, maize, and soybean to drying of artificial and mineral soil. Environmental and Experimental Botany, 2007, 59, 188-192.	2.0	27
129	Selection of host-plant genotype: the next step to increase grain legume N2 fixation activity. Journal of Experimental Botany, 2018, 69, 3523-3530.	2.4	27
130	Plant Traits to Increase Winter Wheat Yield in Semiarid and Subhumid Environments. Agronomy Journal, 2019, 111, 1728-1740.	0.9	27
131	Leaf CER from Postâ€Flowering to Senescence of Fieldâ€grown Soybean Cultivars 1. Crop Science, 1980, 20, 196-200.	0.8	26
132	Hydraulic conductance of intact plants of two contrasting sorghum lines, SC15 and SC1205. Functional Plant Biology, 2013, 40, 730.	1.1	26
133	Seasonal Changes in Morphology and Anatomy of Fieldâ€grown Soybean Leaves 1. Crop Science, 1980, 20, 191-196.	0.8	25
134	Differential sensitivity of C3 and C4 turfgrass species to increasing atmospheric vapor pressure deficit. Environmental and Experimental Botany, 2009, 67, 372-376.	2.0	25
135	Peanut Nitrogen Fixation (C2H2 Reduction) Response to Soil Dehydration. Peanut Science, 1995, 22, 162-166.	0.2	23
136	Measurement of Limitedâ€Transpiration Trait under High Vapor Pressure Deficit for Peanut in Chambers and in Field. Agronomy Journal, 2015, 107, 1019-1024.	0.9	23
137	Soybean Seed Growth II. Individual Seed Mass and Component Compensation 1. Agronomy Journal, 1984, 76, 128-133.	0.9	22
138	Physiological properties of a drought-resistant wild soybean genotype: Transpiration control with soil drying and expression of root morphology. Plant and Soil, 2014, 374, 359-370.	1.8	22
139	Mapping Water Stress Incidence and Intensity, Optimal Plant Populations, and Cultivar Duration for African Groundnut Productivity Enhancement. Frontiers in Plant Science, 2017, 8, 432.	1.7	22
140	Cessation of Leaf Emergence in Indeterminate Soybeans. Crop Science, 1984, 24, 483-486.	0.8	21
141	Model of Leaf Area Expansion in Field Pea Subjected to Soil Water Deficits. Agronomy Journal, 1996, 88, 467-472.	0.9	21
142	Resources for Crop Production: Accessing the Unavailable. Trends in Plant Science, 2019, 24, 121-129.	4.3	21
143	Variation among Cowpea Genotypes in Sensitivity of Transpiration Rate and Symbiotic Nitrogen Fixation to Soil Drying. Crop Science, 2015, 55, 2270-2275.	0.8	20
144	Ureide Accumulation in Response to Mn Nutrition by Eight Soybean Genotypes with N Fixation Tolerance to Soil Drying. Crop Science, 2003, 43, 592.	0.8	20

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145	Gas Exchange of Fieldâ€Grown Soybean under Drought 1. Agronomy Journal, 1986, 78, 454-458.	0.9	19
146	Water Relations of Turgor Recovery and Restiffening of Wilted Cabbage Leaves in the Absence of Water Uptake. Plant Physiology, 1989, 91, 433-439.	2.3	19
147	Model Analysis of Sorghum Response to Nitrogen in Subtropical and Tropical Environments. Agronomy Journal, 1997, 89, 201-207.	0.9	19
148	Atmospheric vapor pressure deficit is critical in predicting growth response of â€œcool-seasonâ€•grass Festuca arundinacea to temperature change. Planta, 2007, 227, 273-276.	1.6	19
149	Persistence of limited-transpiration-rate trait in sorghum at high temperature. Environmental and Experimental Botany, 2015, 115, 58-62.	2.0	19
150	Silver and zinc inhibitors influence transpiration rate and aquaporin transcript abundance in intact soybean plants. Environmental and Experimental Botany, 2016, 122, 168-175.	2.0	19
151	Pot binding as a variable confounding plant phenotype: theoretical derivation and experimental observations. Planta, 2017, 245, 729-735.	1.6	19
152	Geospatial assessment for crop physiological and management improvements with examples using the simple simulation model. Crop Science, 2020, 60, 700-708.	0.8	19
153	A Survey of Soybean Cultivars for Variability in Specific Leaf Weight 1. Crop Science, 1979, 19, 887-892.	0.8	18
154	Variability Among Plants in Dinitrogen Fixation (Acetylene Reduction) Rates by Fieldâ€Grown Soybean 1. Agronomy Journal, 1985, 77, 947-950.	0.9	18
155	Effect of Nitrogen Supply on Maize Yield: II. Field and Model Analysis. Agronomy Journal, 1995, 87, 642-648.	0.9	18
156	Influence of Plant Phosphorus and Iron Concentrations on Growth of Soybean. Journal of Plant Nutrition, 2009, 32, 1513-1526.	0.9	18
157	Transpiration and visual appearance of warm season turfgrasses during soil drying. Environmental and Experimental Botany, 2013, 89, 36-43.	2.0	18
158	Comparisons of the Effects of Elevated Vapor Pressure Deficit on Gene Expression in Leaves among Two Fast-Wilting and a Slow-Wilting Soybean. PLoS ONE, 2015, 10, e0139134.	1.1	18
159	Leaf aquaporin transcript abundance in peanut genotypes diverging in expression of the limitedâ€transpiration trait when subjected to differing vapor pressure deficits and aquaporin inhibitors. Physiologia Plantarum, 2016, 156, 387-396.	2.6	18
160	Yield comparison of simulated rainfed wheat and barley across Middle-East. Agricultural Systems, 2017, 153, 101-108.	3.2	18
161	Extraction of Apoplastic Water during Pressureâ€Volume Dehydrations 1. Agronomy Journal, 1985, 77, 798-802.	0.9	17
162	Lentil Variation in Phenology and Yield Evaluated with a Model. Agronomy Journal, 2015, 107, 1967-1977.	0.9	17

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163	Identification of Virginiaâ€Type Peanut Genotypes for Waterâ€Deficit Conditions Based on Early Decrease in Transpiration Rate with Soil Drying. Crop Science, 2018, 58, 2607-2612.	0.8	17
164	Leaf Nitrogen Content, Photosynthesis and Radiation Use Efficiency in Peanut1. Peanut Science, 1993, 20, 40-43.	0.2	16
165	Diversity in Drought Traits among Commercial Southeastern US Peanut Cultivars. International Journal of Agronomy, 2011, 2011, 1-7.	0.5	16
166	Sleep tight and wake-up early: nocturnal transpiration traits to increase wheat drought tolerance in a Mediterranean environment. Functional Plant Biology, 2020, 47, 1117.	1.1	16
167	Sensitivity of N₂ Fixation Traits in Soybean Cultivar Jackson to Manganese. Crop Science, 2002, 42, 791-796.	0.8	15
168	Genetic variation in peanut leaf maintenance and transpiration recovery from severe soil drying. Field Crops Research, 2014, 158, 65-72.	2.3	15
169	Green revolution still too green. Nature, 1999, 398, 556-556.	13.7	14
170	Penman's sink-strength model as an improved approach to estimating plant canopy transpiration. Agricultural and Forest Meteorology, 2014, 197, 136-141.	1.9	14
171	Inhibitor screen for limited-transpiration trait among maize hybrids. Environmental and Experimental Botany, 2015, 109, 161-167.	2.0	14
172	Sowing Density Effect on Common Bean Leaf Area Development. Crop Science, 2016, 56, 2713-2721.	0.8	14
173	Tolerance of Three Warm-season Turfgrasses to Increasing and Prolonged Soil Water Deficit. Hortscience: A Publication of the American Society for Hortcultural Science, 2011, 46, 1550-1555.	0.5	14
174	Estimation of Soil Evaporation During Fallow Seasons to Assess Water Balances for Noâ€Tillage Crop Rotations. Journal of Agronomy and Crop Science, 2013, 199, 57-65.	1.7	13
175	Growth and Evapotranspiration Response of Two Turfgrass Species to Nitrogen and Trinexapac-ethyl. Hortscience: A Publication of the American Society for Hortcultural Science, 2009, 44, 2053-2057.	0.5	13
176	Nitrogen fixation tolerance to soil water deficit among commercial cultivars and breeding lines of peanut. Field Crops Research, 2013, 149, 127-132.	2.3	12
177	Expression of the limitedâ€transpiration trait under high vapour pressure deficit in peanut populations: Runner and virginia types. Journal of Agronomy and Crop Science, 2017, 203, 295-300.	1.7	12
178	Expression of Droughtâ€Tolerant N₂ Fixation in Heterogeneous Inbred Families derived from PI471938 and Hutcheson Soybean. Crop Science, 2018, 58, 364-369.	0.8	12
179	Seasonal and climatic variation of weighted VPD for transpiration estimation. European Journal of Agronomy, 2020, 113, 125966.	1.9	12
180	Opportunities to improve the seasonal dynamics of water use in lentil (Lens culinaris Medik.) to enhance yield increase in water-limited environments. Chemical and Biological Technologies in Agriculture, 2017, 4, .	1.9	11

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181	Basis of limited-transpiration rate under elevated vapor pressure deficit and high temperature among sweet corn cultivars. Environmental and Experimental Botany, 2020, 179, 104205.	2.0	11
182	Plantâ€based predictions of canopy transpiration instead of meteorological approximations. Crop Science, 2020, 60, 1133-1141.	0.8	11
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184	Transpiration inhibition by stored xylem sap from well-watered maize plants. Plant, Cell and Environment, 1995, 18, 1441-1445.	2.8	10
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