P V Vara Prasad

List of Publications by Year
in descending order

308 papers	18,578 citations	13068 68 h-index	18075 120 g-index
324 all docs	324 docs citations	324 times ranked	14327 citing authors

#	Article	IF	Citations
1	Rising temperatures reduce global wheatÂproduction. Nature Climate Change, 2015, 5, 143-147.	8.1	1,544
2	Species, ecotype and cultivar differences in spikelet fertility and harvest index of rice in response to high temperature stress. Field Crops Research, 2006, 95, 398-411.	2.3	609
3	Temperature variability and the yield of annual crops. Agriculture, Ecosystems and Environment, 2000, 82, 159-167.	2.5	506
4	Global assessment of agricultural system redesign for sustainable intensification. Nature Sustainability, 2018, 1, 441-446.	11.5	416
5	Selenium protects sorghum leaves from oxidative damage under high temperature stress by enhancing antioxidant defense system. Plant Physiology and Biochemistry, 2010, 48, 999-1007.	2.8	387
6	Drought or/and Heat-Stress Effects on Seed Filling in Food Crops: Impacts on Functional Biochemistry, Seed Yields, and Nutritional Quality. Frontiers in Plant Science, 2018, 9, 1705.	1.7	371
7	Adverse high temperature effects on pollen viability, seed-set, seed yield and harvest index of grain-sorghum [Sorghum bicolor (L.) Moench] are more severe at elevated carbon dioxide due to higher tissue temperatures. Agricultural and Forest Meteorology, 2006, 139, 237-251.	1.9	362
8	Independent and Combined Effects of High Temperature and Drought Stress During Grain Filling on Plant Yield and Chloroplast EF-Tu Expression in Spring Wheat. Journal of Agronomy and Crop Science, 2011, 197, 430-441.	1.7	360
9	Similar estimates of temperature impacts on global wheat yield by three independent methods. Nature Climate Change, 2016, 6, 1130-1136.	8.1	352
10	Field crops and the fear of heat stressâ€"Opportunities, challenges and future directions. Field Crops Research, 2017, 200, 114-121.	2.3	290
11	Impacts of Plastic Pollution on Ecosystem Services, Sustainable Development Goals, and Need to Focus on Circular Economy and Policy Interventions. Sustainability, 2021, 13, 9963.	1.6	247
12	Sensitivity of Grain Sorghum to High Temperature Stress during Reproductive Development. Crop Science, 2008, 48, 1911-1917.	0.8	239
13	Effects of elevated temperature and carbon dioxide on seed-set and yield of kidney bean (Phaseolus) Tj ETQq1 1 0.784314 rgBT /Overlo	4.2	237
14	Impact of Nighttime Temperature on Physiology and Growth of Spring Wheat. Crop Science, 2008, 48, 2372-2380.	0.8	234
15	Response of floret fertility and individual grain weight of wheat to high temperature stress: sensitive stages and thresholds for temperature and duration. Functional Plant Biology, 2014, 41, 1261.	1.1	231
16	Role of Cytochrome P450 Enzymes in Plant Stress Response. Antioxidants, 2020, 9, 454.	2.2	218
17	Differences in in vitro Pollen Germination and Pollen Tube Growth of Cotton Cultivars in Response to High Temperature. Annals of Botany, 2005, 96, 59-67.	1.4	214
18	Effects of drought and high temperature stress on synthetic hexaploid wheat. Functional Plant Biology, 2012, 39, 190.	1.1	214

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19	Satellite-based soybean yield forecast: Integrating machine learning and weather data for improving crop yield prediction in southern Brazil. Agricultural and Forest Meteorology, 2020, 284, 107886.	1.9	198
20	Wheat leaf lipids during heat stress: I. High day and night temperatures result in major lipid alterations. Plant, Cell and Environment, 2016, 39, 787-803.	2.8	197
21	Fruit Number in Relation to Pollen Production and Viability in Groundnut Exposed to Short Episodes of Heat Stress. Annals of Botany, 1999, 84, 381-386.	1.4	183
22	Super-optimal temperatures are detrimental to peanut (Arachis hypogaea L.) reproductive processes and yield at both ambient and elevated carbon dioxide. Global Change Biology, 2003, 9, 1775-1787.	4.2	179
23	Correlation between Heat Stability of Thylakoid Membranes and Loss of Chlorophyll in Winter Wheat under Heat Stress. Crop Science, 2007, 47, 2067-2073.	0.8	178
24	Response of in vitro pollen germination and pollen tube growth of groundnut (Arachis hypogaea L.) genotypes to temperature. Plant, Cell and Environment, 2002, 25, 1651-1661.	2.8	169
25	Influence of High Temperature and Breeding for Heat Tolerance in Cotton: A Review. Advances in Agronomy, 2007, 93, 313-385.	2.4	167
26	Impacts of Drought and/or Heat Stress on Physiological, Developmental, Growth, and Yield Processes of Crop Plants. Advances in Agricultural Systems Modeling, 0, , 301-355.	0.3	167
27	Effects of season-long high temperature growth conditions on sugar-to-starch metabolism in developing microspores of grain sorghum (Sorghum bicolor L. Moench). Planta, 2007, 227, 67-79.	1.6	157
28	High-Temperature Stress Alleviation by Selenium Nanoparticle Treatment in Grain Sorghum. ACS Omega, 2018, 3, 2479-2491.	1.6	156
29	Thermal stress impacts reproductive development and grain yield in rice. Plant Physiology and Biochemistry, 2017, 115, 57-72.	2.8	146
30	Food Legumes and Rising Temperatures: Effects, Adaptive Functional Mechanisms Specific to Reproductive Growth Stage and Strategies to Improve Heat Tolerance. Frontiers in Plant Science, 2017, 8, 1658.	1.7	146
31	Genetic variability of transpiration response to vapor pressure deficit among sorghum genotypes. Field Crops Research, 2010, 119, 85-90.	2.3	144
32	Impact of high temperature stress on floret fertility and individual grain weight of grain sorghum: sensitive stages and thresholds for temperature and duration. Frontiers in Plant Science, 2015, 6, 820.	1.7	142
33	Decreased photosynthetic rate under high temperature in wheat is due to lipid desaturation, oxidation, acylation, and damage of organelles. BMC Plant Biology, 2018, 18, 55.	1.6	136
34	Yield Responses to Planting Density for US Modern Corn Hybrids: A Synthesisâ€Analysis. Crop Science, 2016, 56, 2802-2817.	0.8	135
35	Mapping QTL for the traits associated with heat tolerance in wheat (Triticum aestivumL.). BMC Genetics, 2014, 15, 97.	2.7	133
36	High night temperature decreases leaf photosynthesis and pollen function in grain sorghum. Functional Plant Biology, 2011, 38, 993.	1.1	125

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37	Biochar applications influence soil physical and chemical properties, microbial diversity, and crop productivity: a meta-analysis. Biochar, 2022, 4, 1.	6.2	121
38	Sensitivity of sorghum pollen and pistil to highâ€temperature stress. Plant, Cell and Environment, 2018, 41, 1065-1082.	2.8	120
39	Impact of Climate Change Factors on Weeds and Herbicide Efficacy. Advances in Agronomy, 2016, , 107-146.	2.4	116
40	Sensitivity of Peanut to Timing of Heat Stress during Reproductive Development. Crop Science, 1999, 39, 1352-1357.	0.8	115
41	Cerium Oxide Nanoparticles Decrease Drought-Induced Oxidative Damage in Sorghum Leading to Higher Photosynthesis and Grain Yield. ACS Omega, 2018, 3, 14406-14416.	1.6	115
42	Effects of high temperature stress during anthesis and grain filling periods on photosynthesis, lipids and grain yield in wheat. BMC Plant Biology, 2020, 20, 268.	1.6	112
43	An integrated approach to maintaining cereal productivity under climate change. Global Food Security, 2016, 8, 9-18.	4.0	110
44	Agronomic and Physiological Responses to High Temperature, Drought, and Elevated CO2 Interactions in Cereals. Advances in Agronomy, 2014, 127, 111-156.	2.4	108
45	Approaches to improve soil fertility in sub-Saharan Africa. Journal of Experimental Botany, 2020, 71, 632-641.	2.4	105
46	Variability of Root Traits in Spring Wheat Germplasm. PLoS ONE, 2014, 9, e100317.	1.1	103
47	Physiological differences among sorghum (Sorghum bicolor L. Moench) genotypes under high temperature stress. Environmental and Experimental Botany, 2014, 100, 43-54.	2.0	101
48	Heat-induced accumulation of chloroplast protein synthesis elongation factor, EF-Tu, in winter wheat. Journal of Plant Physiology, 2008, 165, 192-202.	1.6	99
49	Seed treatment with nanoâ€iron (<scp>III</scp>) oxide enhances germination, seeding growth and salinity tolerance of sorghum. Journal of Agronomy and Crop Science, 2018, 204, 577-587.	1.7	99
50	Soybean Pollen Anatomy, Viability and Pod Set under High Temperature Stress. Journal of Agronomy and Crop Science, 2013, 199, 171-177.	1.7	97
51	Stomatal responses to changes in vapor pressure deficit reflect tissueâ€specific differences in hydraulic conductance. Plant, Cell and Environment, 2014, 37, 132-139.	2.8	97
52	Genomic characterization of drought tolerance-related traits in spring wheat. Euphytica, 2012, 186, 265-276.	0.6	95
53	Ethylene perception inhibitor 1-MCP decreases oxidative damage of leaves through enhanced antioxidant defense mechanisms in soybean plants grown under high temperature stress. Environmental and Experimental Botany, 2011, 71, 215-223.	2.0	94
54	High Temperature Tolerance in <i>Aegilops</i> Species and Its Potential Transfer to Wheat. Crop Science, 2012, 52, 292-304.	0.8	94

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55	INFLUENCE OF INTEGRATED USE OF FARMYARD MANURE AND INORGANIC FERTILIZERS ON YIELD AND YIELD COMPONENTS OF IRRIGATED LOWLAND RICE. Journal of Plant Nutrition, 2002, 25, 2081-2090.	0.9	93
56	Influence of Growth Temperature on the Amounts of Tocopherols, Tocotrienols, and Î³-Oryzanol in Brown Rice. Journal of Agricultural and Food Chemistry, 2007, 55, 7559-7565.	2.4	93
57	Characterization of sorghum genotypes for traits related to drought tolerance. Field Crops Research, 2011, 123, 10-18.	2.3	91
58	Quantifying the Impact of Heat Stress on Pollen Germination, Seed Set, and Grain Filling in Spring Wheat. Crop Science, 2019, 59, 684-696.	0.8	91
59	Implications of High Temperature and Elevated CO2 on Flowering Time in Plants. Frontiers in Plant Science, 2016, 7, 913.	1.7	89
60	Drought and heat stress-related proteins: an update about their functional relevance in imparting stress tolerance in agricultural crops. Theoretical and Applied Genetics, 2019, 132, 1607-1638.	1.8	89
61	Ethylene production under high temperature stress causes premature leaf senescence in soybean. Functional Plant Biology, 2010, 37, 1071.	1.1	88
62	Production of biofuels from sorghum. Renewable and Sustainable Energy Reviews, 2020, 124, 109769.	8.2	88
63	Influence of drought and heat stress, applied independently or in combination during seed development, on qualitative and quantitative aspects of seeds of lentil (<scp><i>Lens) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 42 2019, 42, 198-211.	2.8	86
64	Impact of High Nightâ€Time and High Daytime Temperature Stress on Winter Wheat. Journal of Agronomy and Crop Science, 2015, 201, 206-218.	1.7	82
65	Major Management Factors Determining Spring and Winter Canola Yield in North America. Crop Science, 2018, 58, 1-16.	0.8	82
66	Rubisco activase and wheat productivity under heat-stress conditions. Journal of Experimental Botany, 2009, 60, 4003-4014.	2.4	81
67	Quantifying pearl millet response to high temperature stress: thresholds, sensitive stages, genetic variability and relative sensitivity of pollen and pistil. Plant, Cell and Environment, 2018, 41, 993-1007.	2.8	79
68	Crop science experiments designed to inform crop modeling. Agricultural and Forest Meteorology, 2013, 170, 8-18.	1.9	78
69	Heat Stress during Flowering Affects Time of Day of Flowering, Seed Set, and Grain Quality in Spring Wheat. Crop Science, 2018, 58, 380-392.	0.8	77
70	Effect of Physical Characteristics and Hydrodynamic Conditions on Transport and Deposition of Microplastics in Riverine Ecosystem. Water (Switzerland), 2021, 13, 2710.	1.2	76
71	Phenotypic Plasticity of Winter Wheat Heading Date and Grain Yield across the US Great Plains. Crop Science, 2016, 56, 2223-2236.	0.8	75
72	QTL Mapping for Grain Yield, Flowering Time, and Stayâ€Green Traits in Sorghum with Genotypingâ€byâ€Sequencing Markers. Crop Science, 2016, 56, 1429-1442.	0.8	73

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73	Title is missing!. Plant and Soil, 2000, 222, 231-239.	1.8	72
74	Alterations in wheat pollen lipidome during high day and night temperature stress. Plant, Cell and Environment, 2018, 41, 1749-1761.	2.8	72
75	Physiological and Molecular Mechanisms of Differential Sensitivity of Palmer Amaranth (Amaranthus) Tj ETQq1 1 0.784314 rgBT /Ove	1.1	72
76	Impacts of Changing Climate and Climate Variability on Seed Production and Seed Industry. Advances in Agronomy, 2013, , 49-110.	2.4	71
77	High Dayâ€•or Nighttime Temperature Alters Leaf Assimilation, Reproductive Success, and Phosphatidic Acid of Pollen Grain in Soybean [<i>Glycine max</i> (L.) Merr.]. Crop Science, 2013, 53, 1594-1604.	0.8	71
78	Crop Responses to Elevated Carbon Dioxide and Interaction with Temperature. Journal of Crop Improvement, 2005, 13, 113-155.	0.9	68
79	Quantifying potential benefits of drought and heat tolerance in rainy season sorghum for adapting to climate change. Agricultural and Forest Meteorology, 2014, 185, 37-48.	1.9	68
80	Wheat leaf lipids during heat stress: II. Lipids experiencing coordinated metabolism are detected by analysis of lipid coâ€occurrence. Plant, Cell and Environment, 2016, 39, 608-617.	2.8	67
81	Heat tolerance in groundnut. Field Crops Research, 2003, 80, 63-77.	2.3	66
82	A safety vs efficiency tradeâ€off identified in the hydraulic pathway of grass leaves is decoupled from photosynthesis, stomatal conductance and precipitation. New Phytologist, 2016, 210, 97-107.	3.5	65
83	Winter Wheat Yield Response to Plant Density as a Function of Yield Environment and Tillering Potential: A Review and Field Studies. Frontiers in Plant Science, 2020, 11, 54.	1.7	65
84	Highâ€Temperature Stress and Soybean Leaves: Leaf Anatomy and Photosynthesis. Crop Science, 2011, 51, 2125-2131.	0.8	63
85	Diurnal temperature amplitude alters physiological and growth response of maize (Zea mays L.) during the vegetative stage. Environmental and Experimental Botany, 2016, 130, 113-121.	2.0	63
86	Drought, pod yield, pre-harvest Aspergillus infection and aflatoxin contamination on peanut in Niger. Field Crops Research, 2006, 98, 20-29.	2.3	62
87	High night temperature effects on wheat and rice: Current status and way forward. Plant, Cell and Environment, 2021, 44, 2049-2065.	2.8	61
88	Roles of Protein Synthesis Elongation Factor EF-Tu in Heat Tolerance in Plants. Journal of Botany, 2012, 2012, 1-8.	1.2	59
89	Resilience of Pollen and Postâ€Flowering Response in Diverse Sorghum Genotypes Exposed to Heat Stress under Field Conditions. Crop Science, 2017, 57, 1658-1669.	0.8	59
90	Changes in stomatal conductance along grass blades reflect changes in leaf structure. Plant, Cell and Environment, 2012, 35, 1040-1049.	2.8	58

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91	Evaluation of water-limited cropping systems in a semi-arid climate using DSSAT-CSM. Agricultural Systems, 2017, 150, 86-98.	3.2	58
92	Cover Crops, Fertilizer Nitrogen Rates, and Economic Return of Grain Sorghum. Agronomy Journal, 2016, 108, 1-16.	0.9	56
93	Phenotypic variability in bread wheat root systems at the early vegetative stage. BMC Plant Biology, 2020, 20, 185.	1.6	56
94	Impacts, Tolerance, Adaptation, and Mitigation of Heat Stress on Wheat under Changing Climates. International Journal of Molecular Sciences, 2022, 23, 2838.	1.8	55
95	Identification and Characterization of Contrasting Genotypes/Cultivars for Developing Heat Tolerance in Agricultural Crops: Current Status and Prospects. Frontiers in Plant Science, 2020, 11, 587264.	1.7	54
96	Genotypic variation in sorghum [Sorghum bicolor (L.) Moench] exotic germplasm collections for drought and disease tolerance. SpringerPlus, 2013, 2, 650.	1.2	52
97	Early-Season Stand Count Determination in Corn via Integration of Imagery from Unmanned Aerial Systems (UAS) and Supervised Learning Techniques. Remote Sensing, 2018, 10, 343.	1.8	51
98	Maximizing yields in riceâ€“groundnut cropping sequence through integrated nutrient management. Field Crops Research, 2002, 75, 9-21.	2.3	50
99	Influence of high temperature during pre- and post-anthesis stages of floral development on fruit-set and pollen germination in peanut. Functional Plant Biology, 2001, 28, 233.	1.1	47
100	Enhancement in leaf photosynthesis and upregulation of Rubisco in the C4 sorghum plant at elevated growth carbon dioxide and temperature occur at early stages of leaf ontogeny. Functional Plant Biology, 2009, 36, 761.	1.1	47
101	Conservation Agriculture Improves Soil Quality, Crop Yield, and Incomes of Smallholder Farmers in North Western Ghana. Frontiers in Plant Science, 2017, 8, 996.	1.7	47
102	Modeling sensitivity of grain yield to elevated temperature in the DSSAT crop models for peanut, soybean, dry bean, chickpea, sorghum, and millet. European Journal of Agronomy, 2018, 100, 99-109.	1.9	47
103	Modelling predicts that soybean is poised to dominate crop production across <scp>A</scp>frica. Plant, Cell and Environment, 2019, 42, 373-385.	2.8	47
104	Modern Processing of Indian Millets: A Perspective on Changes in Nutritional Properties. Foods, 2022, 11, 499.	1.9	47
105	Seed Composition, Seedling Emergence and Early Seedling Vigour of Red Kidney Bean Seed Produced at Elevated Temperature and Carbon Dioxide. Journal of Agronomy and Crop Science, 2009, 195, 148-156.	1.7	46
106	Genotypic variation within sorghum for transpiration response to drying soil. Plant and Soil, 2012, 357, 35-40.	1.8	46
107	Smallholder farmer perceptions about the impact of COVID-19 on agriculture and livelihoods in Senegal. Agricultural Systems, 2021, 190, 103108.	3.2	46
108	Dry Matter Production and Rate of Change of Harvest Index at High Temperature in Peanut. Crop Science, 2002, 42, 146-151.	0.8	45

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109	DORMANCY IN YAMS. Experimental Agriculture, 2001, 37, 147-181.	0.4	44
110	Influence of Soil Temperature on Seedling Emergence and Early Growth of Peanut Cultivars in Field Conditions. Journal of Agronomy and Crop Science, 2006, 192, 168-177.	1.7	44
111	Longevity and temperature response of pollen as affected by elevated growth temperature and carbon dioxide in peanut and grain sorghum. Environmental and Experimental Botany, 2011, 70, 51-57.	2.0	44
112	Predicting Soybean Relative Maturity and Seed Yield Using Canopy Reflectance. Crop Science, 2016, 56, 625-643.	0.8	44
113	Water and Radiation Use Efficiencies in Sorghum. Agronomy Journal, 2013, 105, 649-656.	0.9	43
114	Effects of sowing date and fungicide application on yield of early and late maturing peanut cultivars grown under rainfed conditions in Ghana. Crop Protection, 2005, 24, 325-332.	1.0	42
115	Population genomics of pearl millet (Pennisetum glaucum (L.) R. Br.): Comparative analysis of global accessions and Senegalese landraces. BMC Genomics, 2015, 16, 1048.	1.2	41
116	Evaluating the impact of future climate change on irrigated maize production in Kansas. Climate Risk Management, 2017, 17, 139-154.	1.6	41
117	Response and resilience of Asian agrifood systems to COVID-19: An assessment across twenty-five countries and four regional farming and food systems. Agricultural Systems, 2021, 193, 103168.	3.2	41
118	Crop Responses to Elevated Carbon Dioxide and Interactions with Temperature. Journal of Crop Improvement, 2005, 13, 157-191.	0.9	40
119	Drought and High Temperature Stress in Sorghum: Physiological, Genetic, and Molecular Insights and Breeding Approaches. International Journal of Molecular Sciences, 2021, 22, 9826.	1.8	39
120	Association mapping of germinability and seedling vigor in sorghum under controlled low-temperature conditions. Genome, 2016, 59, 137-145.	0.9	38
121	Root length and root lipid composition contribute to drought tolerance of winter and spring wheat. Plant and Soil, 2019, 439, 57-73.	1.8	38
122	Has Omicron Changed the Evolution of the Pandemic?. JMIR Public Health and Surveillance, 2022, 8, e35763.	1.2	38
123	The carbohydrate metabolism enzymes sucrose-P synthase and ADG-pyrophosphorylase in phaseolus bean leaves are up-regulated at elevated growth carbon dioxide and temperature. Plant Science, 2004, 166, 1565-1573.	1.7	37
124	Heat tolerance and expression of protein synthesis elongation factors, EF-Tu and EF-1Î±, in spring wheat. Functional Plant Biology, 2009, 36, 234.	1.1	36
125	Investigating the influence of roughness length for heat transport (zoh) on the performance of SEBAL in semi-arid irrigated and dryland agricultural systems. Journal of Hydrology, 2014, 509, 231-244.	2.3	36
126	Assessment of the growth in social groups for sustainable agriculture and land management. Global Sustainability, 2020, 3, .	1.6	36

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127	Plant growth-regulating molecules as thermoprotectants: functional relevance and prospects for improving heat tolerance in food crops. Journal of Experimental Botany, 2020, 71, 569-594.	2.4	35
128	Teff (<i>Eragrostis tef</i>) processing, utilization and future opportunities: a review. International Journal of Food Science and Technology, 2021, 56, 3125-3137.	1.3	35
129	Lysimetric evaluation of SEBAL using high resolution airborne imagery from BEAREX08. Advances in Water Resources, 2013, 59, 157-168.	1.7	33
130	Response of Maize to Cover Crops, Fertilizer Nitrogen Rates, and Economic Return. Agronomy Journal, 2016, 108, 17-31.	0.9	33
131	Reproductive success of soybean (<scp><i>Glycine max</i></scp> L. Merril) cultivars and exotic lines under high daytime temperature. Plant, Cell and Environment, 2019, 42, 321-336.	2.8	33
132	Evaluation of Wheat Chromosome Translocation Lines for High Temperature Stress Tolerance at Grain Filling Stage. PLoS ONE, 2015, 10, e0116620.	1.1	32
133	Crop diversification in rice-based systems in the polders of Bangladesh: Yield stability, profitability, and associated risk. Agricultural Systems, 2021, 187, 102986.	3.2	32
134	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
135	A New Insight into Corn Yield:Trends from 1987 through 2015. Crop Science, 2017, 57, 2799-2811.	0.8	31
136	Differences in in vitro pollen germination and pollen tube growth of coconut (Cocos nucifera L.) cultivars in response to high temperature stress. Environmental and Experimental Botany, 2018, 153, 35-44.	2.0	31
137	Response of Aegilops species to drought stress during reproductive stages of development. Functional Plant Biology, 2012, 39, 51.	1.1	30
138	Exploring Nitrogen Limitation for Historical and Modern Soybean Genotypes. Agronomy Journal, 2018, 110, 2080-2090.	0.9	30
139	Genomeâ€wide Association Study of Agronomic Traits in a Springâ€Planted North American Elite Hard Red Spring Wheat Panel. Crop Science, 2018, 58, 1838-1852.	0.8	29
140	A systems-level yield gap assessment of maize-soybean rotation under high- and low-management inputs in the Western US Corn Belt using APSIM. Agricultural Systems, 2019, 174, 145-154.	3.2	29
141	Nitrophenolates spray can alter boll abscission rate in cotton through enhanced peroxidase activity and increased ascorbate and phenolics levels. Journal of Plant Physiology, 2010, 167, 1-9.	1.6	28
142	Influence of Nitrogen Fertilizer on Growth and Yield of Grain Sorghum Hybrids and Inbred Lines. Agronomy Journal, 2014, 106, 1623-1630.	0.9	28
143	Natural variation in the regulation of leaf senescence and relation to N and root traits in wheat. Plant and Soil, 2014, 378, 99-112.	1.8	28
144	Projecting potential impact of COVID-19 on major cereal crops in Senegal and Burkina Faso using crop simulation models. Agricultural Systems, 2021, 190, 103107.	3.2	28

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145	Dry Matter Production and Rate of Change of Harvest Index at High Temperature in Peanut. Crop Science, 2002, 42, 146.	0.8	28
146	PhenologyMMS: A program to simulate crop phenological responses to water stress. Computers and Electronics in Agriculture, 2011, 77, 118-125.	3.7	27
147	Sweet Sorghum Planting Effects on Stalk Yield and Sugar Quality in Semiâ€Arid Tropical Environment. Agronomy Journal, 2013, 105, 1458-1465.	0.9	27
148	Optimizing preplant irrigation for maize under limited water in the High Plains. Agricultural Water Management, 2017, 187, 154-163.	2.4	27
149	Evaluation of drought and heat stressed grain sorghum (Sorghum bicolor) for ethanol production. Industrial Crops and Products, 2011, 33, 779-782.	2.5	26
150	Hydraulic conductance of intact plants of two contrasting sorghum lines, SC15 and SC1205. Functional Plant Biology, 2013, 40, 730.	1.1	26
151	Characterization of a Spring Wheat Association Mapping Panel for Root Traits. Agronomy Journal, 2014, 106, 1593-1604.	0.9	26
152	Soybean Nitrogen Sources and Demand During the Seedâ€Filling Period. Agronomy Journal, 2019, 111, 1779-1787.	0.9	26
153	Spatio-temporal evaluation of plant height in corn via unmanned aerial systems. Journal of Applied Remote Sensing, 2017, 11, 1.	0.6	26
154	The Adaptation and Tolerance of Major Cereals and Legumes to Important Abiotic Stresses. International Journal of Molecular Sciences, 2021, 22, 12970.	1.8	26
155	Big bluestem as a bioenergy crop: A review. Renewable and Sustainable Energy Reviews, 2015, 52, 740-756.	8.2	25
156	Economic value and water productivity of major irrigated crops in the Ogallala aquifer region. Agricultural Water Management, 2019, 214, 55-63.	2.4	25
157	â€˜Omicsâ€™ approaches in developing combined drought and heat tolerance in food crops. Plant Cell Reports, 2022, 41, 699-739.	2.8	25
158	Testing Effects of Climate Change in Crop Models. ICP Series on Climate Change Impacts, Adaptation, and Mitigation, 2010, , 109-129.	0.4	24
159	Thresholds, sensitive stages and genetic variability of finger millet to high temperature stress. Journal of Agronomy and Crop Science, 2018, 204, 477-492.	1.7	24
160	Grain sorghum production functions under different irrigation capacities. Agricultural Water Management, 2018, 203, 261-271.	2.4	24
161	Response of Tomato Genotypes under Different High Temperatures in Field and Greenhouse Conditions. Plants, 2021, 10, 449.	1.6	24
162	Effective Use of Water in Crop Plants in Dryland Agriculture: Implications of Reactive Oxygen Species and Antioxidative System. Frontiers in Plant Science, 2021, 12, 778270.	1.7	24

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163	Corn Yield Response to Plant Density and Nitrogen: Spatial Models and Yield Distribution. Agronomy Journal, 2018, 110, 970-982.	0.9	23
164	Effect of elevated CO2, high temperature, and water deficit on growth, photosynthesis, and whole plant water use efficiency of cocoa (TheobromaÂcacao L.). International Journal of Biometeorology, 2020, 64, 47-57.	1.3	23
165	Evaluating Optimum Limited Irrigation Management Strategies for Corn Production in the Ogallala Aquifer Region. Journal of Irrigation and Drainage Engineering - ASCE, 2017, 143, 04017041.	0.6	22
166	Escape and tolerance to high temperature at flowering in groundnut (Arachis hypogaea L.). Journal of Agricultural Science, 2000, 135, 371-378.	0.6	21
167	Stalk rot fungi affect grain sorghum yield components in an inoculation stage-specific manner. Crop Protection, 2017, 94, 97-105.	1.0	21
168	Reproductive fitness in common bean (Phaseolus vulgaris L.) under drought stress is associated with root length and volume. Indian Journal of Plant Physiology, 2018, 23, 796-809.	0.8	21
169	Alien chromosome segment from Aegilops speltoides and Dasypyrum villosum increases drought tolerance in wheat via profuse and deep root system. BMC Plant Biology, 2019, 19, 242.	1.6	21
170	Modeling irrigation and nitrogen management of wheat in northern Ethiopia. Agricultural Water Management, 2019, 216, 264-272.	2.4	21
171	Land Use and Land Cover Changes and Its Impact on Soil Erosion in Stung Sangkae Catchment of Cambodia. Sustainability, 2021, 13, 9276.	1.6	21
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