P V Vara Prasad

List of Publications by Citations

299 papers	11,879 citations	56 h-index	100 g-index
324 ext. papers	15,064 ext. citations	4.3 avg, IF	6.77 L-index

#	Paper	IF	Citations
299	Rising temperatures reduce global wheat production. *Nature Climate Change*, **2015**, 5, 143-147	21.4	1048
298	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	5.5	488
297	Temperature variability and the yield of annual crops. *Agriculture, Ecosystems and Environment*, **2000**, 82, 159-167	5.7	401
296	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	5.8	297
295	Selenium protects sorghum leaves from oxidative damage under high temperature stress by enhancing antioxidant defense system. *Plant Physiology and Biochemistry*, **2010**, 48, 999-1007	5.4	295
294	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	3.9	259
293	Global assessment of agricultural system redesign for sustainable intensification. *Nature Sustainability*, **2018**, 1, 441-446	22.1	250
292	Similar estimates of temperature impacts on global wheat yield by three independent methods. *Nature Climate Change*, **2016**, 6, 1130-1136	21.4	233
291	Effects of elevated temperature and carbon dioxide on seed-set and yield of kidney bean (Phaseolus vulgaris L.). *Global Change Biology*, **2002**, 8, 710-721	11.4	202
290	Sensitivity of Grain Sorghum to High Temperature Stress during Reproductive Development. *Crop Science*, **2008**, 48, 1911-1917	2.4	181
289	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	6.2	179
288	Field crops and the fear of heat stress Opportunities, challenges and future directions. *Field Crops Research*, **2017**, 200, 114-121	5.5	174
287	Impact of Nighttime Temperature on Physiology and Growth of Spring Wheat. *Crop Science*, **2008**, 48, 2372-2380	2.4	173
286	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	4.1	172
285	Effects of drought and high temperature stress on synthetic hexaploid wheat. *Functional Plant Biology*, **2012**, 39, 190-198	2.7	156
284	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	11.4	152
283	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	4.1	152

282	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, 1261-1269	2.7	147
281	Correlation between Heat Stability of Thylakoid Membranes and Loss of Chlorophyll in Winter Wheat under Heat Stress. *Crop Science*, **2007**, 47, 2067-2073	2.4	141
280	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	8.4	126
279	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	8.4	125
278	Influence of High Temperature and Breeding for Heat Tolerance in Cotton: A Review. *Advances in Agronomy*, **2007**, 93, 313-385	7.7	124
277	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	4.7	122
276	Genetic variability of transpiration response to vapor pressure deficit among sorghum genotypes. *Field Crops Research*, **2010**, 119, 85-90	5.5	112
275	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	6.2	106
274	Mapping QTL for the traits associated with heat tolerance in wheat (Triticum aestivum L.). *BMC Genetics*, **2014**, 15, 97	2.6	104
273	High night temperature decreases leaf photosynthesis and pollen function in grain sorghum. *Functional Plant Biology*, **2011**, 38, 993-1003	2.7	102
272	Impacts of Drought and/or Heat Stress on Physiological, Developmental, Growth, and Yield Processes of Crop Plants. *Advances in Agricultural Systems Modeling*,301-355	0.3	99
271	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	6.2	96
270	Sensitivity of Peanut to Timing of Heat Stress during Reproductive Development. *Crop Science*, **1999**, 39, 1352-1357	2.4	94
269	Yield Responses to Planting Density for US Modern Corn Hybrids: A Synthesis-Analysis. *Crop Science* , **2016**, 56, 2802-2817	2.4	93
268	High-Temperature Stress Alleviation by Selenium Nanoparticle Treatment in Grain Sorghum. *ACS Omega*, **2018**, 3, 2479-2491	3.9	90
267	An integrated approach to maintaining cereal productivity under climate change. *Global Food Security*, **2016**, 8, 9-18	8.3	89
266	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	5.3	84
265	Genomic characterization of drought tolerance-related traits in spring wheat. *Euphytica*, **2012**, 186, 265-276	2.6	79

264	Variability of root traits in spring wheat germplasm. *PLoS ONE*, **2014**, 9, e100317	3.7	79
263	Thermal stress impacts reproductive development and grain yield in rice. *Plant Physiology and Biochemistry*, **2017**, 115, 57-72	5.4	77
262	Heat-induced accumulation of chloroplast protein synthesis elongation factor, EF-Tu, in winter wheat. *Journal of Plant Physiology*, **2008**, 165, 192-202	3.6	77
261	Stomatal responses to changes in vapor pressure deficit reflect tissue-specific differences in hydraulic conductance. *Plant, Cell and Environment*, **2014**, 37, 132-9	8.4	76
260	High Temperature Tolerance in Aegilops Species and Its Potential Transfer to Wheat. *Crop Science*, **2012**, 52, 292-304	2.4	73
259	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	5.8	73
258	Impact of Climate Change Factors on Weeds and Herbicide Efficacy. *Advances in Agronomy*, **2016**, 107-146	7.7	71
257	Physiological differences among sorghum (Sorghum bicolor L. Moench) genotypes under high temperature stress. *Environmental and Experimental Botany*, **2014**, 100, 43-54	5.9	71
256	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	5.9	71
255	Agronomic and Physiological Responses to High Temperature, Drought, and Elevated CO2 Interactions in Cereals. *Advances in Agronomy*, **2014**, 127, 111-156	7.7	70
254	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	2.3	70
253	Crop science experiments designed to inform crop modeling. *Agricultural and Forest Meteorology*, **2013**, 170, 8-18	5.8	69
252	Soybean Pollen Anatomy, Viability and Pod Set under High Temperature Stress. *Journal of Agronomy and Crop Science*, **2013**, 199, 171-177	3.9	68
251	Influence of growth temperature on the amounts of tocopherols, tocotrienols, and gamma-oryzanol in brown rice. *Journal of Agricultural and Food Chemistry*, **2007**, 55, 7559-65	5.7	67
250	Sensitivity of sorghum pollen and pistil to high-temperature stress. *Plant, Cell and Environment*, **2018**, 41, 1065-1082	8.4	66
249	Impact of High Night-Time and High Daytime Temperature Stress on Winter Wheat. *Journal of Agronomy and Crop Science*, **2015**, 201, 206-218	3.9	65
248	Characterization of sorghum genotypes for traits related to drought tolerance. *Field Crops Research* , **2011**, 123, 10-18	5.5	65
247	Role of Cytochrome P450 Enzymes in Plant Stress Response. *Antioxidants*, **2020**, 9,	7.1	62

246	Rubisco activase and wheat productivity under heat-stress conditions. *Journal of Experimental Botany*, **2009**, 60, 4003-14	7	62
245	Cerium Oxide Nanoparticles Decrease Drought-Induced Oxidative Damage in Sorghum Leading to Higher Photosynthesis and Grain Yield. *ACS Omega*, **2018**, 3, 14406-14416	3.9	62
244	Ethylene production under high temperature stress causes premature leaf senescence in soybean. *Functional Plant Biology*, **2010**, 37, 1071	2.7	57
243	Heat tolerance in groundnut. *Field Crops Research*, **2003**, 80, 63-77	5.5	56
242	Implications of High Temperature and Elevated CO2 on Flowering Time in Plants. *Frontiers in Plant Science*, **2016**, 7, 913	6.2	56
241	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	5.8	53
240	Crop Responses to Elevated Carbon Dioxide and Interaction with Temperature. *Journal of Crop Improvement*, **2005**, 13, 113-155	1.4	53
239	Effect of high air and soil temperature on dry matter production, pod yield and yield components of groundnut. *Plant and Soil*, **2000**, 222, 231-239	4.2	53
238	Physiological and Molecular Mechanisms of Differential Sensitivity of Palmer Amaranth (Amaranthus palmeri) to Mesotrione at Varying Growth Temperatures. *PLoS ONE*, **2015**, 10, e0126731	3.7	53
237	Influence of drought and heat stress, applied independently or in combination during seed development, on qualitative and quantitative aspects of seeds of lentil (Lens culinaris Medikus) genotypes, differing in drought sensitivity. *Plant, Cell and Environment*, **2019**, 42, 198-211	8.4	52
236	High Day- or Nighttime Temperature Alters Leaf Assimilation, Reproductive Success, and Phosphatidic Acid of Pollen Grain in Soybean [Glycine max (L.) Merr.]. *Crop Science*, **2013**, 53, 1594-1604	2.4	51
235	Approaches to improve soil fertility in sub-Saharan Africa. *Journal of Experimental Botany*, **2020**, 71, 632-641	7	51
234	Drought, pod yield, pre-harvest Aspergillus infection and aflatoxin contamination on peanut in Niger. *Field Crops Research*, **2006**, 98, 20-29	5.5	49
233	High-Temperature Stress and Soybean Leaves: Leaf Anatomy and Photosynthesis. *Crop Science*, **2011**, 51, 2125-2131	2.4	48
232	Seed treatment with nano-iron (III) oxide enhances germination, seeding growth and salinity tolerance of sorghum. *Journal of Agronomy and Crop Science*, **2018**, 204, 577-587	3.9	46
231	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	8.4	46
230	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	6	45
229	Impacts of Changing Climate and Climate Variability on Seed Production and Seed Industry. *Advances in Agronomy*, **2013**, 49-110	7.7	45

228	Heat Stress during Flowering Affects Time of Day of Flowering, Seed Set, and Grain Quality in Spring Wheat. *Crop Science*, **2018**, 58, 380-392	2.4	44
227	A safety vs efficiency trade-off identified in the hydraulic pathway of grass leaves is decoupled from photosynthesis, stomatal conductance and precipitation. *New Phytologist*, **2016**, 210, 97-107	9.8	44
226	Major Management Factors Determining Spring and Winter Canola Yield in North America. *Crop Science*, **2018**, 58, 1-16	2.4	44
225	Cover Crops, Fertilizer Nitrogen Rates, and Economic Return of Grain Sorghum. *Agronomy Journal*, **2016**, 108, 1-16	2.2	43
224	Wheat leaf lipids during heat stress: II. Lipids experiencing coordinated metabolism are detected by analysis of lipid co-occurrence. *Plant, Cell and Environment*, **2016**, 39, 608-17	8.4	43
223	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	5.3	42
222	Changes in stomatal conductance along grass blades reflect changes in leaf structure. *Plant, Cell and Environment*, **2012**, 35, 1040-9	8.4	42
221	Alterations in wheat pollen lipidome during high day and night temperature stress. *Plant, Cell and Environment*, **2018**, 41, 1749-1761	8.4	40
220	Enhancement in leaf photosynthesis and upregulation of Rubisco in the C sorghum plant at elevated growth carbon dioxide and temperature occur at early stages of leaf ontogeny. *Functional Plant Biology*, **2009**, 36, 761-769	2.7	40
219	Maximizing yields in rice‐groundnut cropping sequence through integrated nutrient management. *Field Crops Research*, **2002**, 75, 9-21	5.5	39
218	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	5.9	39
217	Quantifying the Impact of Heat Stress on Pollen Germination, Seed Set, and Grain Filling in Spring Wheat. *Crop Science*, **2019**, 59, 684-696	2.4	37
216	Production of biofuels from sorghum. *Renewable and Sustainable Energy Reviews*, **2020**, 124, 109769	16.2	37
215	Evaluation of water-limited cropping systems in a semi-arid climate using DSSAT-CSM. *Agricultural Systems*, **2017**, 150, 86-98	6.1	37
214	Genotypic variation within sorghum for transpiration response to drying soil. *Plant and Soil*, **2012**, 357, 35-40	4.2	37
213	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	3.9	37
212	Genotypic variation in sorghum [Sorghum bicolor (L.) Moench] exotic germplasm collections for drought and disease tolerance. *SpringerPlus*, **2013**, 2, 650		36
211	Resilience of Pollen and Post-Flowering Response in Diverse Sorghum Genotypes Exposed to Heat Stress under Field Conditions. *Crop Science*, **2017**, 57, 1658-1669	2.4	36

210	Conservation Agriculture Improves Soil Quality, Crop Yield, and Incomes of Smallholder Farmers in North Western Ghana. *Frontiers in Plant Science*, **2017**, 8, 996	6.2	35
209	Roles of Protein Synthesis Elongation Factor EF-Tu in Heat Tolerance in Plants. *Journal of Botany*, **2012**, 2012, 1-8	0	35
208	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	5.9	35
207	Dry Matter Production and Rate of Change of Harvest Index at High Temperature in Peanut. *Crop Science*, **2002**, 42, 146-151	2.4	35
206	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	5.3	35
205	Crop Responses to Elevated Carbon Dioxide and Interactions with Temperature. *Journal of Crop Improvement*, **2005**, 13, 157-191	1.4	35
204	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	3.9	34
203	Predicting Soybean Relative Maturity and Seed Yield Using Canopy Reflectance. *Crop Science*, **2016**, 56, 625-643	2.4	34
202	Population genomics of pearl millet (Pennisetum glaucum (L.) R. Br.): Comparative analysis of global accessions and Senegalese landraces. *BMC Genomics*, **2015**, 16, 1048	4.5	33
201	Water and Radiation Use Efficiencies in Sorghum. *Agronomy Journal*, **2013**, 105, 649-656	2.2	33
200	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	6	32
199	Phenotypic Plasticity of Winter Wheat Heading Date and Grain Yield across the US Great Plains. *Crop Science*, **2016**, 56, 2223-2236	2.4	32
198	DORMANCY IN YAMS. *Experimental Agriculture*, **2001**, 37, 147-181	1.7	31
197	Heat tolerance and expression of protein synthesis elongation factors, EF-Tu and EF-1β in spring wheat. *Functional Plant Biology*, **2009**, 36, 234-241	2.7	29
196	QTL Mapping for Grain Yield, Flowering Time, and Stay-Green Traits in Sorghum with Genotyping-by-Sequencing Markers. *Crop Science*, **2016**, 56, 1429-1442	2.4	28
195	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	2.7	28
194	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	5	27
193	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	5	26

192	Evaluation of wheat chromosome translocation lines for high temperature stress tolerance at grain filling stage. *PLoS ONE*, **2015**, 10, e0116620	3.7	26
191	Dry Matter Production and Rate of Change of Harvest Index at High Temperature in Peanut. *Crop Science*, **2002**, 42, 146	2.4	26
190	Impacts of Plastic Pollution on Ecosystem Services, Sustainable Development Goals, and Need to Focus on Circular Economy and Policy Interventions. *Sustainability*, **2021**, 13, 9963	3.6	26
189	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	6.2	25
188	Evaluating the impact of future climate change on irrigated maize production in Kansas. *Climate Risk Management*, **2017**, 17, 139-154	4.6	25
187	Is the Stay-Green Trait in Sorghum a Result of Transpiration Sensitivity to Either Soil Drying or Vapor Pressure Deficit?. *Crop Science*, **2013**, 53, 2129-2134	2.4	25
186	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	2.7	25
185	Modelling predicts that soybean is poised to dominate crop production across Africa. *Plant, Cell and Environment*, **2019**, 42, 373-385	8.4	25
184	High night temperature effects on wheat and rice: Current status and way forward. *Plant, Cell and Environment*, **2021**, 44, 2049-2065	8.4	25
183	A New Insight into Corn Yield:Trends from 1987 through 2015. *Crop Science*, **2017**, 57, 2799-2811	2.4	24
182	Association mapping of germinability and seedling vigor in sorghum under controlled low-temperature conditions. *Genome*, **2016**, 59, 137-45	2.4	24
181	Lysimetric evaluation of SEBAL using high resolution airborne imagery from BEAREX08. *Advances in Water Resources*, **2013**, 59, 157-168	4.7	24
180	Response of Aegilops species to drought stress during reproductive stages of development. *Functional Plant Biology*, **2012**, 39, 51-59	2.7	23
179	Sweet Sorghum Planting Effects on Stalk Yield and Sugar Quality in Semi-Arid Tropical Environment. *Agronomy Journal*, **2013**, 105, 1458-1465	2.2	23
178	Big bluestem as a bioenergy crop: A review. *Renewable and Sustainable Energy Reviews*, **2015**, 52, 740-756	6.2	22
177	Soybean Nitrogen Sources and Demand During the Seed-Filling Period. *Agronomy Journal*, **2019**, 111, 1779-1787	2.2	22
176	Evaluation of drought and heat stressed grain sorghum (Sorghum bicolor) for ethanol production. *Industrial Crops and Products*, **2011**, 33, 779-782	5.9	22
175	Spatio-temporal evaluation of plant height in corn via unmanned aerial systems. *Journal of Applied Remote Sensing*, **2017**, 11, 1	1.4	22

174	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	7	21
173	Hydraulic conductance of intact plants of two contrasting sorghum lines, SC15 and SC1205. *Functional Plant Biology*, **2013**, 40, 730-738	2.7	21
172	Characterization of a Spring Wheat Association Mapping Panel for Root Traits. *Agronomy Journal*, **2014**, 106, 1593-1604	2.2	21
171	PhenologyMMS: A program to simulate crop phenological responses to water stress. *Computers and Electronics in Agriculture*, **2011**, 77, 118-125	6.5	21
170	Smallholder farmer perceptions about the impact of COVID-19 on agriculture and livelihoods in Senegal. *Agricultural Systems*, **2021**, 190, 103108	6.1	21
169	Root length and root lipid composition contribute to drought tolerance of winter and spring wheat. *Plant and Soil*, **2019**, 439, 57-73	4.2	21
168	Exploring Nitrogen Limitation for Historical and Modern Soybean Genotypes. *Agronomy Journal*, **2018**, 110, 2080-2090	2.2	21
167	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	5.9	20
166	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	3.6	20
165	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	6.2	20
164	Economic value and water productivity of major irrigated crops in the Ogallala aquifer region. *Agricultural Water Management*, **2019**, 214, 55-63	5.9	19
163	Corn Yield Response to Plant Density and Nitrogen: Spatial Models and Yield Distribution. *Agronomy Journal*, **2018**, 110, 970-982	2.2	18
162	Evaluating Optimum Limited Irrigation Management Strategies for Corn Production in the Ogallala Aquifer Region. *Journal of Irrigation and Drainage Engineering - ASCE*, **2017**, 143, 04017041	1.1	18
161	Testing Effects of Climate Change in Crop Models. *ICP Series on Climate Change Impacts, Adaptation, and Mitigation*, **2010**, 109-129		18
160	Response of Maize to Cover Crops, Fertilizer Nitrogen Rates, and Economic Return. *Agronomy Journal*, **2016**, 108, 17-31	2.2	17
159	Optimizing preplant irrigation for maize under limited water in the High Plains. *Agricultural Water Management*, **2017**, 187, 154-163	5.9	16
158	Phenotypic variability in bread wheat root systems at the early vegetative stage. *BMC Plant Biology*, **2020**, 20, 185	5.3	16
157	Reproductive success of soybean (Glycine max L. Merril) cultivars and exotic lines under high daytime temperature. *Plant, Cell and Environment*, **2019**, 42, 321-336	8.4	16

156	Effect of Physical Characteristics and Hydrodynamic Conditions on Transport and Deposition of Microplastics in Riverine Ecosystem. *Water (Switzerland)*, **2021**, 13, 2710	3	16
155	Assessment of the growth in social groups for sustainable agriculture and land management. *Global Sustainability*, **2020**, 3,	5.4	16
154	Thresholds, sensitive stages and genetic variability of finger millet to high temperature stress. *Journal of Agronomy and Crop Science*, **2018**, 204, 477-492	3.9	15
153	Influence of Nitrogen Fertilizer on Growth and Yield of Grain Sorghum Hybrids and Inbred Lines. *Agronomy Journal*, **2014**, 106, 1623-1630	2.2	15
152	Partitioning hydraulic resistance in Sorghum bicolor leaves reveals unique correlations with stomatal conductance during drought. *Functional Plant Biology*, **2013**, 41, 25-36	2.7	15
151	Global Warming Effects **2017**, 289-299		14
150	Persistence of limited-transpiration-rate trait in sorghum at high temperature. *Environmental and Experimental Botany*, **2015**, 115, 58-62	5.9	14
149	Grain sorghum production functions under different irrigation capacities. *Agricultural Water Management*, **2018**, 203, 261-271	5.9	14
148	Changes in Physiological Traits in Soybean with Breeding Advancements. *Crop Science*, **2016**, 56, 122-131	2.4	14
147	Genome-wide Association Study of Agronomic Traits in a Spring-Planted North American Elite Hard Red Spring Wheat Panel. *Crop Science*, **2018**, 58, 1838-1852	2.4	14
146	Escape and tolerance to high temperature at flowering in groundnut (Arachis hypogaea L.). *Journal of Agricultural Science*, **2000**, 135, 371-378	1	14
145	Teff (Eragrostis tef) processing, utilization and future opportunities: a review. *International Journal of Food Science and Technology*, **2021**, 56, 3125-3137	3.8	14
144	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	6.1	14
143	Modeling irrigation and nitrogen management of wheat in northern Ethiopia. *Agricultural Water Management*, **2019**, 216, 264-272	5.9	13
142	Comparison of big bluestem with other native grasses: Chemical composition and biofuel yield. *Energy*, **2015**, 83, 358-365	7.9	13
141	Organic and Inorganic Fertilizer Effects on the Growth and Yield of Maize in a Dry Agro-Ecology in Northern Ghana. *Journal of Crop Improvement*, **2016**, 30, 1-16	1.4	13
140	Effects of Salinity on Ion Transport, Water Relations and Oxidative Damage **2013**, 89-114		13
139	Natural variation in the regulation of leaf senescence and relation to N and root traits in wheat. *Plant and Soil*, **2014**, 378, 99-112	4.2	13

138	Using crop simulation model to evaluate influence of water management practices and multiple cropping systems on crop yields: A case study for Ethiopian highlands. *Field Crops Research*, **2021**, 260, 108004	5.5	13
137	GROUNDNUT YIELD RESPONSE AND ECONOMIC BENEFITS OF FUNGICIDE AND PHOSPHORUS APPLICATION IN FARMER-MANAGED TRIALS IN NORTHERN GHANA. *Experimental Agriculture*, **2009** , 45, 385-399	1.7	12
136	Projecting potential impact of COVID-19 on major cereal crops in Senegal and Burkina Faso using crop simulation models. *Agricultural Systems*, **2021**, 190, 103107	6.1	12
135	Effect of elevated CO, high temperature, and water deficit on growth, photosynthesis, and whole plant water use efficiency of cocoa (Theobroma cacao L.). *International Journal of Biometeorology*, **2020**, 64, 47-57	3.7	12
134	Crop diversification in rice-based systems in the polders of Bangladesh: Yield stability, profitability, and associated risk. *Agricultural Systems*, **2021**, 187, 102986	6.1	12
133	Stalk rot fungi affect grain sorghum yield components in an inoculation stage-specific manner. *Crop Protection*, **2017**, 94, 97-105	2.7	11
132	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	5.3	11
131	Field Crops and the Fear of Heat Stress Opportunities, Challenges and Future Directions. *Procedia Environmental Sciences*, **2015**, 29, 36-37		11
130	A Model for Prediction of Heat Stability of Photosynthetic Membranes. *Crop Science*, **2008**, 48, 1513-1522	2.4	11
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