

P V Vara Prasad

List of Publications by Year in descending order

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Version: 2024-02-01

308
papers

18,578
citations

13099

68
h-index

18130

120
g-index

324
all docs

324
docs citations

324
times ranked

14327
citing authors

#	ARTICLE	IF	CITATIONS
1	Selenium supplementation to lentil (<i>Lens culinaris</i> Medik.) under combined heat and drought stress improves photosynthetic ability, antioxidant systems, reproductive function and yield traits. <i>Plant and Soil</i> , 2023, 486, 7-23.	3.7	11
2	Omics approaches in developing combined drought and heat tolerance in food crops. <i>Plant Cell Reports</i> , 2022, 41, 699-739.	5.6	25
3	Current status and prospects of herbicide-resistant grain sorghum (<i>Sorghum bicolor</i>). <i>Pest Management Science</i> , 2022, 78, 409-415.	3.4	8
4	Impacts of the COVID-19 pandemic on vegetable production systems and livelihoods: Smallholder farmer experiences in Burkina Faso. <i>Food and Energy Security</i> , 2022, 11, e337.	4.3	14
5	Post-silking ¹⁵ N labelling reveals an enhanced nitrogen allocation to leaves in modern maize (<i>Zea mays</i> L.). <i>Plant, Cell & Environment</i> , 2022, 45, 1079-1091.	3.5	9
6	Impact of High-Cadence Earth Observation in Maize Crop Phenology Classification. <i>Remote Sensing</i> , 2022, 14, 469.	4.0	3
7	Responses of Soybean Genotypes to Different Nitrogen and Phosphorus Sources: Impacts on Yield Components, Seed Yield, and Seed Protein. <i>Plants</i> , 2022, 11, 298.	3.5	11
8	Has Omicron Changed the Evolution of the Pandemic?. <i>JMIR Public Health and Surveillance</i> , 2022, 8, e35763.	2.6	38
9	Conservation and Conventional Vegetable Cultivation Increase Soil Organic Matter and Nutrients in the Ethiopian Highlands. <i>Water (Switzerland)</i> , 2022, 14, 476.	2.7	5
10	Modern Processing of Indian Millets: A Perspective on Changes in Nutritional Properties. <i>Foods</i> , 2022, 11, 499.	4.3	47
11	Identification of Sustainable Development Priorities for Agriculture through Sustainable Livelihood Security Indicators for Karnataka, India. <i>Sustainability</i> , 2022, 14, 1831.	3.2	7
12	Land Use, Landform, and Soil Management as Determinants of Soil Physicochemical Properties and Microbial Abundance of Lower Brahmaputra Valley, India. <i>Sustainability</i> , 2022, 14, 2241.	3.2	6
13	Biochar applications influence soil physical and chemical properties, microbial diversity, and crop productivity: a meta-analysis. <i>Biochar</i> , 2022, 4, 1.	12.6	121
14	Impacts, Tolerance, Adaptation, and Mitigation of Heat Stress on Wheat under Changing Climates. <i>International Journal of Molecular Sciences</i> , 2022, 23, 2838.	4.1	55
15	Assessment of Land Use and Land Cover Changes on Soil Erosion Using Remote Sensing, GIS and RUSLE Model: A Case Study of Battambang Province, Cambodia. <i>Sustainability</i> , 2022, 14, 4066.	3.2	12
16	Predicting the Potential Suitable Climate for Coconut (<i>Cocos nucifera</i> L.) Cultivation in India under Climate Change Scenarios Using the MaxEnt Model. <i>Plants</i> , 2022, 11, 731.	3.5	13
17	Kernel weight contribution to yield genetic gain of maize: a global review and US case studies. <i>Journal of Experimental Botany</i> , 2022, 73, 3597-3609.	4.8	12
18	Footprints of corn nitrogen management on the following soybean crop. <i>Agronomy Journal</i> , 2022, 114, 1475-1488.	1.8	6

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19	Evaluating crop management options for sorghum, pearl millet and peanut to minimize risk under the projected midcentury climate scenario for different locations in Senegal. <i>Climate Risk Management</i> , 2022, 36, 100436.	3.2	11
20	Overlapping Delta and Omicron Outbreaks During the COVID-19 Pandemic: Dynamic Panel Data Estimates. <i>JMIR Public Health and Surveillance</i> , 2022, 8, e37377.	2.6	2
21	Assessing impact of salinity and climate scenarios on dry season field crops in the coastal region of Bangladesh. <i>Agricultural Systems</i> , 2022, 200, 103428.	6.1	6
22	A comparison of multiple calibration and ensembling methods for estimating genetic coefficients of CERES-Rice to simulate phenology and yields. <i>Field Crops Research</i> , 2022, 284, 108560.	5.1	9
23	Response of Physiological, Reproductive Function and Yield Traits in Cultivated Chickpea (<i>Cicer</i>) Tj ETQq1 1 0.784314 rgBT / Overlock 10	3.6	10
24	A comparative Study on the Effect of Seed Pre-sowing Treatments with Microwave Radiation and Salicylic Acid in Alleviating the Drought-Induced Damage in Wheat. <i>Journal of Plant Growth Regulation</i> , 2021, 40, 48-66.	5.1	12
25	Teff (<i>Eragrostis tef</i>) processing, utilization and future opportunities: a review. <i>International Journal of Food Science and Technology</i> , 2021, 56, 3125-3137.	2.7	35
26	Evaluating optimal irrigation for potential yield and economic performance of major crops in southwestern Kansas. <i>Agricultural Water Management</i> , 2021, 244, 106536.	5.6	6
27	Crop diversification in rice-based systems in the polders of Bangladesh: Yield stability, profitability, and associated risk. <i>Agricultural Systems</i> , 2021, 187, 102986.	6.1	32
28	Using crop simulation model to evaluate influence of water management practices and multiple cropping systems on crop yields: A case study for Ethiopian highlands. <i>Field Crops Research</i> , 2021, 260, 108004.	5.1	20
29	Evaluating optimal irrigation strategies for maize in Western Kansas. <i>Agricultural Water Management</i> , 2021, 246, 106677.	5.6	6
30	To meet grand challenges, agricultural scientists must engage in the politics of constructive collective action. <i>Crop Science</i> , 2021, 61, 24-31.	1.8	8
31	Modeling the effects of crop management on food barley production under a midcentury changing climate in northern Ethiopia. <i>Climate Risk Management</i> , 2021, 32, 100308.	3.2	7
32	Integrating root architecture and physiological approaches for improving drought tolerance in common bean (<i>Phaseolus vulgaris</i> L.). <i>Plant Physiology Reports</i> , 2021, 26, 4-22.	1.5	10
33	Response of Tomato Genotypes under Different High Temperatures in Field and Greenhouse Conditions. <i>Plants</i> , 2021, 10, 449.	3.5	24
34	High night temperature effects on wheat and rice: Current status and way forward. <i>Plant, Cell and Environment</i> , 2021, 44, 2049-2065.	5.7	61
35	Management options for mid-century maize (<i>Zea mays</i> L.) in Ethiopia. <i>Science of the Total Environment</i> , 2021, 758, 143635.	8.0	8
36	Use of high-resolution unmanned aerial systems imagery and machine learning to evaluate grain sorghum tolerance to mesotrione. <i>Journal of Applied Remote Sensing</i> , 2021, 15, .	1.3	2

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37	A Comparison of Approaches to Regional Land-Use Capability Analysis for Agricultural Land-Planning. <i>Land</i> , 2021, 10, 458.	2.9	14
38	Overview of Farmers'™ Perceptions of Current Status and Constraints to Soybean Production in Ratanakiri Province of Cambodia. <i>Sustainability</i> , 2021, 13, 4433.	3.2	7
39	Registration of the sorghum nested association mapping (NAM) population in RTx430 background. <i>Journal of Plant Registrations</i> , 2021, 15, 395-402.	0.5	9
40	Safeners improve early-stage chilling stress tolerance in sorghum. <i>Journal of Agronomy and Crop Science</i> , 2021, 207, 705-716.	3.5	9
41	Projecting potential impact of COVID-19 on major cereal crops in Senegal and Burkina Faso using crop simulation models. <i>Agricultural Systems</i> , 2021, 190, 103107.	6.1	28
42	Smallholder farmer perceptions about the impact of COVID-19 on agriculture and livelihoods in Senegal. <i>Agricultural Systems</i> , 2021, 190, 103108.	6.1	46
43	Diversity, Equity, and Inclusion Initiative Update. <i>CSA News</i> , 2021, 66, 26-27.	0.0	0
44	Heat Priming of Lentil (<i>Lens culinaris</i> Medik.) Seeds and Foliar Treatment with γ -Aminobutyric Acid (GABA), Confers Protection to Reproductive Function and Yield Traits under High-Temperature Stress Environments. <i>International Journal of Molecular Sciences</i> , 2021, 22, 5825.	4.1	8
45	Water deficit stress alters intra-panicle grain number in sorghum. <i>Crop Science</i> , 2021, 61, 2680-2695.	1.8	4
46	Estimating Surface and Groundwater Irrigation Potential under Different Conservation Agricultural Practices and Irrigation Systems in the Ethiopian Highlands. <i>Water (Switzerland)</i> , 2021, 13, 1645.	2.7	10
47	The Interplay Between Policy and COVID-19 Outbreaks in South Asia: Longitudinal Trend Analysis of Surveillance Data. <i>JMIR Public Health and Surveillance</i> , 2021, 7, e24251.	2.6	10
48	Comparative Transcriptome Analysis Reveals Genetic Mechanisms of Sugarcane Aphid Resistance in Grain Sorghum. <i>International Journal of Molecular Sciences</i> , 2021, 22, 7129.	4.1	10
49	Genetic Dissection of Seedling Root System Architectural Traits in a Diverse Panel of Hexaploid Wheat through Multi-Locus Genome-Wide Association Mapping for Improving Drought Tolerance. <i>International Journal of Molecular Sciences</i> , 2021, 22, 7188.	4.1	20
50	An integrated approach of field, weather, and satellite data for monitoring maize phenology. <i>Scientific Reports</i> , 2021, 11, 15711.	3.3	4
51	Land Use and Land Cover Changes and Its Impact on Soil Erosion in Stung Sangkae Catchment of Cambodia. <i>Sustainability</i> , 2021, 13, 9276.	3.2	21
52	Biomass Quantity and Quality from Different Year-Round Cereal-Legume Cropping Systems as Forage or Fodder for Livestock. <i>Sustainability</i> , 2021, 13, 9414.	3.2	7
53	Effect of tillers on corn yield: Exploring trait plasticity potential in unpredictable environments. <i>Crop Science</i> , 2021, 61, 3660-3674.	1.8	12
54	Do Water and Nitrogen Management Practices Impact Grain Quality in Maize?. <i>Agronomy</i> , 2021, 11, 1851.	3.0	12

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55	Large-Scale Non-Targeted Metabolomics Reveals Antioxidant, Nutraceutical and Therapeutic Potentials of Sorghum. <i>Antioxidants</i> , 2021, 10, 1511.	5.1	15
56	Winter Pea Mixtures with Triticale and Oat for Biogas and Methane Production in Semiarid Conditions of the South Pannonian Basin. <i>Agronomy</i> , 2021, 11, 1800.	3.0	0
57	Impacts of Plastic Pollution on Ecosystem Services, Sustainable Development Goals, and Need to Focus on Circular Economy and Policy Interventions. <i>Sustainability</i> , 2021, 13, 9963.	3.2	247
58	Nano-oxides immobilize cadmium, lead, and zinc in mine spoils and contaminated soils facilitating plant growth. <i>Canadian Journal of Soil Science</i> , 2021, 101, 543-554.	1.2	3
59	Drought and High Temperature Stress in Sorghum: Physiological, Genetic, and Molecular Insights and Breeding Approaches. <i>International Journal of Molecular Sciences</i> , 2021, 22, 9826.	4.1	39
60	Response and resilience of Asian agrifood systems to COVID-19: An assessment across twenty-five countries and four regional farming and food systems. <i>Agricultural Systems</i> , 2021, 193, 103168.	6.1	41
61	A single gene inherited trait confers metabolic resistance to chlorsulfuron in grain sorghum (<i>Sorghum bicolor</i>). <i>Planta</i> , 2021, 253, 48.	3.2	8
62	Evaluating Irrigation and Farming Systems with Solar MajiPump in Ethiopia. <i>Agronomy</i> , 2021, 11, 17.	3.0	9
63	Effect of Physical Characteristics and Hydrodynamic Conditions on Transport and Deposition of Microplastics in Riverine Ecosystem. <i>Water (Switzerland)</i> , 2021, 13, 2710.	2.7	76
64	Soil and Climate Characterization to Define Environments for Summer Crops in Senegal. <i>Sustainability</i> , 2021, 13, 11739.	3.2	5
65	High-resolution unmanned aircraft systems imagery for stay-green characterization in grain sorghum (<i>Sorghum bicolor</i> L.). <i>Journal of Applied Remote Sensing</i> , 2021, 15, .	1.3	4
66	Evaluation of Land Use and Land Cover Change and Its Drivers in Battambang Province, Cambodia from 1998 to 2018. <i>Sustainability</i> , 2021, 13, 11170.	3.2	10
67	Unraveling uncertainty drivers of the maize yield response to nitrogen: A Bayesian and machine learning approach. <i>Agricultural and Forest Meteorology</i> , 2021, 311, 108668.	4.8	16
68	Cold Tolerance during the Reproductive Phase in Chickpea (<i>Cicer arietinum</i> L.) Is Associated with Superior Cold Acclimation Ability Involving Antioxidants and Cryoprotective Solutes in Anthers and Ovules. <i>Antioxidants</i> , 2021, 10, 1693.	5.1	8
69	Single Application of Biochar Increases Fertilizer Efficiency, C Sequestration, and pH over the Long-Term in Sandy Soils of Senegal. <i>Sustainability</i> , 2021, 13, 11817.	3.2	9
70	The Adaptation and Tolerance of Major Cereals and Legumes to Important Abiotic Stresses. <i>International Journal of Molecular Sciences</i> , 2021, 22, 12970.	4.1	26
71	Bioaccumulation of Fluoride in Plants and Its Microbially Assisted Remediation: A Review of Biological Processes and Technological Performance. <i>Processes</i> , 2021, 9, 2154.	2.8	13
72	Effective Use of Water in Crop Plants in Dryland Agriculture: Implications of Reactive Oxygen Species and Antioxidative System. <i>Frontiers in Plant Science</i> , 2021, 12, 778270.	3.6	24

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73	Plant growth-regulating molecules as thermoprotectants: functional relevance and prospects for improving heat tolerance in food crops. <i>Journal of Experimental Botany</i> , 2020, 71, 569-594.	4.8	35
74	Approaches to improve soil fertility in sub-Saharan Africa. <i>Journal of Experimental Botany</i> , 2020, 71, 632-641.	4.8	105
75	Setting research priorities for tackling climate change. <i>Journal of Experimental Botany</i> , 2020, 71, 480-489.	4.8	18
76	Effect of elevated CO ₂ , high temperature, and water deficit on growth, photosynthesis, and whole plant water use efficiency of cocoa (<i>Theobroma cacao</i> L.). <i>International Journal of Biometeorology</i> , 2020, 64, 47-57.	3.0	23
77	Satellite-based soybean yield forecast: Integrating machine learning and weather data for improving crop yield prediction in southern Brazil. <i>Agricultural and Forest Meteorology</i> , 2020, 284, 107886.	4.8	198
78	Dynamics of oil and fatty acid accumulation during seed development in historical soybean varieties. <i>Field Crops Research</i> , 2020, 248, 107719.	5.1	18
79	Potential impacts of climate change factors and agronomic adaptation strategies on wheat yields in central highlands of Ethiopia. <i>Climatic Change</i> , 2020, 159, 461-479.	3.6	18
80	Confirmation and Characterization of the First Case of Acetolactate Synthase (ALS)-Inhibitor-Resistant Wild Buckwheat (<i>Polygonum convolvulus</i> L.) in the United States. <i>Agronomy</i> , 2020, 10, 1496.	3.0	3
81	Variation in stalk rot resistance and physiological traits of sorghum genotypes in the field under high temperature. <i>Journal of General Plant Pathology</i> , 2020, 86, 350-359.	1.0	3
82	The Influence of Different Fertilization Strategies on the Grain Yield of Field Peas (<i>Pisum sativum</i> L.) under Conventional and Conservation Tillage. <i>Agronomy</i> , 2020, 10, 1728.	3.0	8
83	Co-addition of humic substances and humic acids with urea enhances foliar nitrogen use efficiency in sugarcane (<i>Saccharum officinarum</i> L.). <i>Heliyon</i> , 2020, 6, e05100.	3.2	19
84	Understanding Physiology and Impacts of High Temperature Stress on the Progametic Phase of Coconut (<i>Cocos nucifera</i> L.). <i>Plants</i> , 2020, 9, 1651.	3.5	9
85	Assessment of the growth in social groups for sustainable agriculture and land management. <i>Global Sustainability</i> , 2020, 3, .	3.3	36
86	Identification and Characterization of Contrasting Genotypes/Cultivars for Developing Heat Tolerance in Agricultural Crops: Current Status and Prospects. <i>Frontiers in Plant Science</i> , 2020, 11, 587264.	3.6	54
87	Conservation Agriculture and Integrated Pest Management Practices Improve Yield and Income while Reducing Labor, Pests, Diseases and Chemical Pesticide Use in Smallholder Vegetable Farms in Nepal. <i>Sustainability</i> , 2020, 12, 6418.	3.2	16
88	The Response of Water and Nutrient Dynamics and of Crop Yield to Conservation Agriculture in the Ethiopian Highlands. <i>Sustainability</i> , 2020, 12, 5989.	3.2	12
89	Sunlit, controlled-environment chambers are essential for comparing plant responses to various climates. <i>Agronomy Journal</i> , 2020, 112, 4531-4549.	1.8	7
90	Differential heat sensitivity of two cool-season legumes, chickpea and lentil, at the reproductive stage, is associated with responses in pollen function, photosynthetic ability and oxidative damage. <i>Journal of Agronomy and Crop Science</i> , 2020, 206, 734-758.	3.5	14

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91	Narrowing Diurnal Temperature Amplitude Alters Carbon Tradeoff and Reduces Growth in C4 Crop Sorghum. <i>Frontiers in Plant Science</i> , 2020, 11, 1262.	3.6	17
92	Characterization, Genetic Analyses, and Identification of QTLs Conferring Metabolic Resistance to a 4-Hydroxyphenylpyruvate Dioxygenase Inhibitor in Sorghum (<i>Sorghum bicolor</i>). <i>Frontiers in Plant Science</i> , 2020, 11, 596581.	3.6	11
93	Spatial analysis of the impact of climate change factors and adaptation strategies on productivity of wheat in Ethiopia. <i>Science of the Total Environment</i> , 2020, 731, 139094.	8.0	16
94	Role of Cytochrome P450 Enzymes in Plant Stress Response. <i>Antioxidants</i> , 2020, 9, 454.	5.1	218
95	Effects of high temperature stress during anthesis and grain filling periods on photosynthesis, lipids and grain yield in wheat. <i>BMC Plant Biology</i> , 2020, 20, 268.	3.6	112
96	Reduction of Nitrogen Fertilizer Requirements and Nitrous Oxide Emissions Using Legume Cover Crops in a No-Tillage Sorghum Production System. <i>Sustainability</i> , 2020, 12, 4403.	3.2	16
97	Testing of Commercial Inoculants to Enhance P Uptake and Grain Yield of Promiscuous Soybean in Kenya. <i>Sustainability</i> , 2020, 12, 3803.	3.2	12
98	Winter Wheat Yield Response to Plant Density as a Function of Yield Environment and Tillering Potential: A Review and Field Studies. <i>Frontiers in Plant Science</i> , 2020, 11, 54.	3.6	65
99	Production of biofuels from sorghum. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 124, 109769.	16.4	88
100	Phenotypic variability in bread wheat root systems at the early vegetative stage. <i>BMC Plant Biology</i> , 2020, 20, 185.	3.6	56
101	Water Conservation Methods and Cropping Systems for Increased Productivity and Economic Resilience in Burkina Faso. <i>Water (Switzerland)</i> , 2020, 12, 976.	2.7	8
102	Physiological Changes Across Historical Sorghum Hybrids Released During the Last Six Decades. <i>Kansas Agricultural Experiment Station Research Reports</i> , 2020, 6, .	0.0	1
103	Pretreatment Methods for Biofuel Production from Sorghum. , 2020, , 755-788.		0
104	Impacts of Abiotic Stresses on Sorghum Physiology. , 2020, , 157-188.		5
105	Tiller Contributions to Low-Density Corn Biomass and Yield. <i>Kansas Agricultural Experiment Station Research Reports</i> , 2020, 6, .	0.0	1
106	Sorghum Management Systems and Production Technology Around the Globe. , 2020, , 251-293.		2
107	Reproductive success of soybean (<sc><i>Glycine max</i></sc> L. Merrill) cultivars and exotic lines under high daytime temperature. <i>Plant, Cell and Environment</i> , 2019, 42, 321-336.	5.7	33
108	Influence of drought and heat stress, applied independently or in combination during seed development, on qualitative and quantitative aspects of seeds of lentil (<sc><i>Lens</i></sc> Tj ETQq0 0 0 rgBT /Overlock_10 Tf 50 62 Td (cultivars). <i>Plant, Cell and Environment</i> , 2019, 42, 198-211.	5.7	86

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109	Soybean Nitrogen Sources and Demand During the Seed-Filling Period. <i>Agronomy Journal</i> , 2019, 111, 1779-1787.	1.8	26
110	Editorial: Adaptation of Dryland Plants to a Changing Environment. <i>Frontiers in Plant Science</i> , 2019, 10, 1228.	3.6	3
111	Yield and Water Productivity of Winter Wheat under Various Irrigation Capacities. <i>Journal of the American Water Resources Association</i> , 2019, 55, 24-37.	2.4	14
112	A Review of Soybean Yield when Double-Cropped after Wheat. <i>Agronomy Journal</i> , 2019, 111, 677-685.	1.8	15
113	Quantifying the Impact of Heat Stress on Pollen Germination, Seed Set, and Grain Filling in Spring Wheat. <i>Crop Science</i> , 2019, 59, 684-696.	1.8	91
114	Sorghum Hybrids Development for Important Traits: Progress and Way Forward. <i>Agronomy</i> , 2019, , .	0.2	1
115	Alien chromosome segment from <i>Aegilops speltoides</i> and <i>Dasypyrum villosum</i> increases drought tolerance in wheat via profuse and deep root system. <i>BMC Plant Biology</i> , 2019, 19, 242.	3.6	21
116	A systems-level yield gap assessment of maize-soybean rotation under high- and low-management inputs in the Western US Corn Belt using APSIM. <i>Agricultural Systems</i> , 2019, 174, 145-154.	6.1	29
117	Drought and heat stress-related proteins: an update about their functional relevance in imparting stress tolerance in agricultural crops. <i>Theoretical and Applied Genetics</i> , 2019, 132, 1607-1638.	3.6	89
118	Modeling irrigation and nitrogen management of wheat in northern Ethiopia. <i>Agricultural Water Management</i> , 2019, 216, 264-272.	5.6	21
119	Sorghum Genetic Resources. <i>Agronomy</i> , 2019, , 47-72.	0.2	0
120	Sorghum Hybrids Development for Important Traits: Progress and Way Forward. <i>Agronomy</i> , 2019, , 97-117.	0.2	3
121	Registration of Six Grain Sorghum Pollinator (R) Lines. <i>Journal of Plant Registrations</i> , 2019, 13, 113-117.	0.5	3
122	Economic value and water productivity of major irrigated crops in the Ogallala aquifer region. <i>Agricultural Water Management</i> , 2019, 214, 55-63.	5.6	25
123	Modelling predicts that soybean is poised to dominate crop production across Africa. <i>Plant, Cell and Environment</i> , 2019, 42, 373-385.	5.7	47
124	Root length and root lipid composition contribute to drought tolerance of winter and spring wheat. <i>Plant and Soil</i> , 2019, 439, 57-73.	3.7	38
125	High-Temperature Stress Alleviation by Selenium Nanoparticle Treatment in Grain Sorghum. <i>ACS Omega</i> , 2018, 3, 2479-2491.	3.5	156
126	Thresholds, sensitive stages and genetic variability of finger millet to high temperature stress. <i>Journal of Agronomy and Crop Science</i> , 2018, 204, 477-492.	3.5	24

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127	Evaluating heat tolerance of a complete set of wheat (<i>Aegilops geniculata</i>) chromosome addition lines. <i>Journal of Agronomy and Crop Science</i> , 2018, 204, 588-593.	3.5	3
128	Seed treatment with nano-iron (Fe ^{III}) oxide enhances germination, seedling growth and salinity tolerance of sorghum. <i>Journal of Agronomy and Crop Science</i> , 2018, 204, 577-587.	3.5	99
129	Alterations in wheat pollen lipidome during high day and night temperature stress. <i>Plant, Cell and Environment</i> , 2018, 41, 1749-1761.	5.7	72
130	Drought and High Temperature Stress and Traits Associated with Tolerance. <i>Agronomy</i> , 2018, , .	0.2	7
131	Differences in in vitro pollen germination and pollen tube growth of coconut (<i>Cocos nucifera</i> L.) cultivars in response to high temperature stress. <i>Environmental and Experimental Botany</i> , 2018, 153, 35-44.	4.2	31
132	Decreased photosynthetic rate under high temperature in wheat is due to lipid desaturation, oxidation, acylation, and damage of organelles. <i>BMC Plant Biology</i> , 2018, 18, 55.	3.6	136
133	Grain sorghum production functions under different irrigation capacities. <i>Agricultural Water Management</i> , 2018, 203, 261-271.	5.6	24
134	Quantifying pearl millet response to high temperature stress: thresholds, sensitive stages, genetic variability and relative sensitivity of pollen and pistil. <i>Plant, Cell and Environment</i> , 2018, 41, 993-1007.	5.7	79
135	Sensitivity of sorghum pollen and pistil to high temperature stress. <i>Plant, Cell and Environment</i> , 2018, 41, 1065-1082.	5.7	120
136	Modeling sensitivity of grain yield to elevated temperature in the DSSAT crop models for peanut, soybean, dry bean, chickpea, sorghum, and millet. <i>European Journal of Agronomy</i> , 2018, 100, 99-109.	4.1	47
137	Drought or/and Heat-Stress Effects on Seed Filling in Food Crops: Impacts on Functional Biochemistry, Seed Yields, and Nutritional Quality. <i>Frontiers in Plant Science</i> , 2018, 9, 1705.	3.6	371
138	Exploring Nitrogen Limitation for Historical and Modern Soybean Genotypes. <i>Agronomy Journal</i> , 2018, 110, 2080-2090.	1.8	30
139	Reproductive fitness in common bean (<i>Phaseolus vulgaris</i> L.) under drought stress is associated with root length and volume. <i>Indian Journal of Plant Physiology</i> , 2018, 23, 796-809.	0.8	21
140	Molecular breeding approaches involving physiological and reproductive traits for heat tolerance in food crops. <i>Indian Journal of Plant Physiology</i> , 2018, 23, 697-720.	0.8	16
141	Cerium Oxide Nanoparticles Decrease Drought-Induced Oxidative Damage in Sorghum Leading to Higher Photosynthesis and Grain Yield. <i>ACS Omega</i> , 2018, 3, 14406-14416.	3.5	115
142	Major Management Factors Determining Spring and Winter Canola Yield in North America. <i>Crop Science</i> , 2018, 58, 1-16.	1.8	82
143	Early-Season Stand Count Determination in Corn via Integration of Imagery from Unmanned Aerial Systems (UAS) and Supervised Learning Techniques. <i>Remote Sensing</i> , 2018, 10, 343.	4.0	51
144	Genome-wide Association Study of Agronomic Traits in a Spring-Planted North American Elite Hard Red Spring Wheat Panel. <i>Crop Science</i> , 2018, 58, 1838-1852.	1.8	29

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145	Corn Yield Response to Plant Density and Nitrogen: Spatial Models and Yield Distribution. <i>Agronomy Journal</i> , 2018, 110, 970-982.	1.8	23
146	Response of photosynthetic performance, water relations and osmotic adjustment to salinity acclimation in two wheat cultivars. <i>Acta Physiologiae Plantarum</i> , 2018, 40, 1.	2.1	13
147	Global assessment of agricultural system redesign for sustainable intensification. <i>Nature Sustainability</i> , 2018, 1, 441-446.	23.7	416
148	Heat Stress during Flowering Affects Time of Day of Flowering, Seed Set, and Grain Quality in Spring Wheat. <i>Crop Science</i> , 2018, 58, 380-392.	1.8	77
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292	Title is missing!. <i>Plant and Soil</i> , 2000, 222, 231-239.	3.7	72
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298	Agroclimatology of Maize, Sorghum, and Pearl Millet. <i>Agronomy</i> , 0, , 201-241.	0.2	6
299	Sorghum Growth and Development. <i>Agronomy</i> , 0, , 155-172.	0.2	7
300	Drought and High Temperature Stress and Traits Associated with Tolerance. <i>Agronomy</i> , 0, , 241-265.	0.2	14
301	Genotype × Environment × Management Interactions: US Sorghum Cropping Systems. <i>Agronomy</i> , 0, , 277-296.	0.2	14
302	Weed Competition and Management in Sorghum. <i>Agronomy</i> , 0, , 347-360.	0.2	10
303	Sorghum: A Multipurpose Bioenergy Crop. <i>Agronomy</i> , 0, , 399-424.	0.2	5
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