Maduraimuthu Djanaguiraman

List of Publications by Year in Descending Order

50 papers	2,515 citations	26 h-index	50 g-index
53 ext. papers	3,118 ext. citations	4 avg, IF	5.51 L-index

#	Paper	IF	Citations
50	Sustainable Intensification **2021**, 1-24		
49	Seed Viability Test: A Semi-Throughput Method to Screen Oilseeds for Biodiesel Production. *Methods in Molecular Biology*, **2021**, 2290, 129-138	1.4	
48	Integrating root architecture and physiological approaches for improving drought tolerance in common bean (Phaseolus vulgaris L.). *Plant Physiology Reports*, **2021**, 26, 4-22	1.4	2
47	A Combined Nutrient/Biocontrol Agent Mixture Improve Cassava Tuber Yield and Cassava Mosaic Disease. *Agronomy*, **2021**, 11, 1650	3.6	
46	Drought and High Temperature Stress in Sorghum: Physiological, Genetic, and Molecular Insights and Breeding Approaches. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	6
45	Role of Cytochrome P450 Enzymes in Plant Stress Response. *Antioxidants*, **2020**, 9,	7.1	62
44	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
43	Variations in photosynthesis associated traits and grain yield of minor millets. *Plant Physiology Reports*, **2020**, 25, 418-425	1.4	0
42	Potential impacts of climate change factors and agronomic adaptation strategies on wheat yields in central highlands of Ethiopia. *Climatic Change*, **2020**, 159, 461-479	4.5	9
41	Variation in stalk rot resistance and physiological traits of sorghum genotypes in the field under high temperature. *Journal of General Plant Pathology*, **2020**, 86, 350-359	1	1
40	Nanocatalysts and Biofuels **2020**, 1-22		1
39	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
38	Lipid-based Fe- and Zn- nanoformulation is more effective in alleviating Fe- and Zn- deficiency in maize. *Journal of Plant Nutrition*, **2019**, 42, 1693-1708	2.3	5
37	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
36	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
35	High-Temperature Stress Alleviation by Selenium Nanoparticle Treatment in Grain Sorghum. *ACS Omega*, **2018**, 3, 2479-2491	3.9	90
34	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

33	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
32	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
31	Nitrogen and potassium deficiency identification in maize by image mining, spectral and true colour response. *Indian Journal of Plant Physiology*, **2018**, 23, 91-99		6
30	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
29	Sensitivity of sorghum pollen and pistil to high-temperature stress. *Plant, Cell and Environment*, **2018**, 41, 1065-1082	8.4	66
28	Response of photosynthetic performance, water relations and osmotic adjustment to salinity acclimation in two wheat cultivars. *Acta Physiologiae Plantarum*, **2018**, 40, 1	2.6	10
27	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		9
26	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
25	Agroclimatology of Oats, Barley, and Minor Millets. *Agronomy*, **2018**, 243-277	0.8	0
24	Agroclimatology of Maize, Sorghum, and Pearl Millet. *Agronomy*, **2018**, 201-241	0.8	2
23	Inhibition of phospholipase D enzyme activity through hexanal leads to delayed mango (Mangifera indica L.) fruit ripening through changes in oxidants and antioxidant enzymes activity. *Scientia Horticulturae*, **2017**, 218, 316-325	4.1	47
22	Iron Chlorosis **2017**, 246-255		6
21	Implications of High Temperature and Elevated CO2 on Flowering Time in Plants. *Frontiers in Plant Science*, **2016**, 7, 913	6.2	56
20	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
19	Physiological differences among sorghum (Sorghum bicolor L. Moench) genotypes under high temperature stress. *Environmental and Experimental Botany*, **2014**, 100, 43-54	5.9	71
18	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
17	High temperature stress. **2014**, 201-220		7
16	Genotypic variation in sorghum [Sorghum bicolor (L.) Moench] exotic germplasm collections for drought and disease tolerance. *SpringerPlus*, **2013**, 2, 650		36

15	Effects of Salinity on Ion Transport, Water Relations and Oxidative Damage **2013**, 89-114		13
14	Soybean Pollen Anatomy, Viability and Pod Set under High Temperature Stress. *Journal of Agronomy and Crop Science*, **2013**, 199, 171-177	3.9	68
13	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
12	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
11	High-Temperature Stress and Soybean Leaves: Leaf Anatomy and Photosynthesis. *Crop Science*, **2011**, 51, 2125-2131	2.4	48
10	High night temperature decreases leaf photosynthesis and pollen function in grain sorghum. *Functional Plant Biology*, **2011**, 38, 993-1003	2.7	102
9	Ethylene production under high temperature stress causes premature leaf senescence in soybean. *Functional Plant Biology*, **2010**, 37, 1071	2.7	57
8	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
7	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
6	Cotton Leaf Senescence can be Delayed by Nitrophenolate Spray Through Enhanced Antioxidant Defence System. *Journal of Agronomy and Crop Science*, **2009**, 195, 213-224	3.9	58
5	Chromium interactions in plants: current status and future strategies. *Metallomics*, **2009**, 1, 375-83	4.5	84
4	Rice can acclimate to lethal level of salinity by pretreatment with sublethal level of salinity through osmotic adjustment. *Plant and Soil*, **2006**, 284, 363-373	4.2	65
3	Selenium an antioxidative protectant in soybean during senescence. *Plant and Soil*, **2005**, 272, 77-86	4.2	283
2	Differential antioxidative response of ascorbate glutathione pathway enzymes and metabolites to chromium speciation stress in green gram ((L.) R.Wilczek. cv CO 4) roots. *Plant Science*, **2004**, 166, 1035-1043	5.3	212
1	Gibberellic acid biosynthesis during dehydration phase of priming increases seed vigour of tomato. *Plant Growth Regulation*,1	3.2	