

# Maduraimuthu Djanaguiraman

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Selenium protects sorghum leaves from oxidative damage under high temperature stress by enhancing antioxidant defense system. <i>Plant Physiology and Biochemistry</i> , <b>2010</b> , 48, 999-1007	5.4	295
49	Selenium is an antioxidative protectant in soybean during senescence. <i>Plant and Soil</i> , <b>2005</b> , 272, 77-86	4.2	283
48	Differential antioxidative response of ascorbate glutathione pathway enzymes and metabolites to chromium speciation stress in green gram (L.) R. Wilczek. cv CO 4) roots. <i>Plant Science</i> , <b>2004</b> , 166, 1035-1043	5.3	212
47	Response of floret fertility and individual grain weight of wheat to high temperature stress: sensitive stages and thresholds for temperature and duration. <i>Functional Plant Biology</i> , <b>2014</b> , 41, 1261-1269	2.7	147
46	Impact of high temperature stress on floret fertility and individual grain weight of grain sorghum: sensitive stages and thresholds for temperature and duration. <i>Frontiers in Plant Science</i> , <b>2015</b> , 6, 820	6.2	106
45	High night temperature decreases leaf photosynthesis and pollen function in grain sorghum. <i>Functional Plant Biology</i> , <b>2011</b> , 38, 993-1003	2.7	102
44	High-Temperature Stress Alleviation by Selenium Nanoparticle Treatment in Grain Sorghum. <i>ACS Omega</i> , <b>2018</b> , 3, 2479-2491	3.9	90
43	Decreased photosynthetic rate under high temperature in wheat is due to lipid desaturation, oxidation, acylation, and damage of organelles. <i>BMC Plant Biology</i> , <b>2018</b> , 18, 55	5.3	84
42	Chromium interactions in plants: current status and future strategies. <i>Metallomics</i> , <b>2009</b> , 1, 375-83	4.5	84
41	Physiological differences among sorghum ( <i>Sorghum bicolor</i> L. Moench) genotypes under high temperature stress. <i>Environmental and Experimental Botany</i> , <b>2014</b> , 100, 43-54	5.9	71
40	Ethylene perception inhibitor 1-MCP decreases oxidative damage of leaves through enhanced antioxidant defense mechanisms in soybean plants grown under high temperature stress. <i>Environmental and Experimental Botany</i> , <b>2011</b> , 71, 215-223	5.9	71
39	Soybean Pollen Anatomy, Viability and Pod Set under High Temperature Stress. <i>Journal of Agronomy and Crop Science</i> , <b>2013</b> , 199, 171-177	3.9	68
38	Sensitivity of sorghum pollen and pistil to high-temperature stress. <i>Plant, Cell and Environment</i> , <b>2018</b> , 41, 1065-1082	8.4	66
37	Rice can acclimate to lethal level of salinity by pretreatment with sublethal level of salinity through osmotic adjustment. <i>Plant and Soil</i> , <b>2006</b> , 284, 363-373	4.2	65
36	Role of Cytochrome P450 Enzymes in Plant Stress Response. <i>Antioxidants</i> , <b>2020</b> , 9,	7.1	62
35	Cerium Oxide Nanoparticles Decrease Drought-Induced Oxidative Damage in Sorghum Leading to Higher Photosynthesis and Grain Yield. <i>ACS Omega</i> , <b>2018</b> , 3, 14406-14416	3.9	62
34	Cotton Leaf Senescence can be Delayed by Nitrophenolate Spray Through Enhanced Antioxidant Defence System. <i>Journal of Agronomy and Crop Science</i> , <b>2009</b> , 195, 213-224	3.9	58

33	Ethylene production under high temperature stress causes premature leaf senescence in soybean. <i>Functional Plant Biology</i> , <b>2010</b> , 37, 1071	2.7	57
32	Implications of High Temperature and Elevated CO <sub>2</sub> on Flowering Time in Plants. <i>Frontiers in Plant Science</i> , <b>2016</b> , 7, 913	6.2	56
31	High Day- or Nighttime Temperature Alters Leaf Assimilation, Reproductive Success, and Phosphatidic Acid of Pollen Grain in Soybean [ <i>Glycine max</i> (L.) Merr.]. <i>Crop Science</i> , <b>2013</b> , 53, 1594-1604	2.4	51
30	High-Temperature Stress and Soybean Leaves: Leaf Anatomy and Photosynthesis. <i>Crop Science</i> , <b>2011</b> , 51, 2125-2131	2.4	48
29	Inhibition of phospholipase D enzyme activity through hexanal leads to delayed mango ( <i>Mangifera indica</i> L.) fruit ripening through changes in oxidants and antioxidant enzymes activity. <i>Scientia Horticulturae</i> , <b>2017</b> , 218, 316-325	4.1	47
28	Seed treatment with nano-iron (III) oxide enhances germination, seedling growth and salinity tolerance of sorghum. <i>Journal of Agronomy and Crop Science</i> , <b>2018</b> , 204, 577-587	3.9	46
27	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> , <b>2018</b> , 41, 993-1007	8.4	46
26	Effects of high temperature stress during anthesis and grain filling periods on photosynthesis, lipids and grain yield in wheat. <i>BMC Plant Biology</i> , <b>2020</b> , 20, 268	5.3	42
25	Genotypic variation in sorghum [ <i>Sorghum bicolor</i> (L.) Moench] exotic germplasm collections for drought and disease tolerance. <i>SpringerPlus</i> , <b>2013</b> , 2, 650		36
24	Root length and root lipid composition contribute to drought tolerance of winter and spring wheat. <i>Plant and Soil</i> , <b>2019</b> , 439, 57-73	4.2	21
23	Nitrophenolates spray can alter boll abscission rate in cotton through enhanced peroxidase activity and increased ascorbate and phenolics levels. <i>Journal of Plant Physiology</i> , <b>2010</b> , 167, 1-9	3.6	20
22	Reproductive success of soybean ( <i>Glycine max</i> L. Merrill) cultivars and exotic lines under high daytime temperature. <i>Plant, Cell and Environment</i> , <b>2019</b> , 42, 321-336	8.4	16
21	Thresholds, sensitive stages and genetic variability of finger millet to high temperature stress. <i>Journal of Agronomy and Crop Science</i> , <b>2018</b> , 204, 477-492	3.9	15
20	Effects of Salinity on Ion Transport, Water Relations and Oxidative Damage <b>2013</b> , 89-114		13
19	Alien chromosome segment from <i>Aegilops speltoides</i> and <i>Dasyphyrum villosum</i> increases drought tolerance in wheat via profuse and deep root system. <i>BMC Plant Biology</i> , <b>2019</b> , 19, 242	5.3	11
18	Response of photosynthetic performance, water relations and osmotic adjustment to salinity acclimation in two wheat cultivars. <i>Acta Physiologiae Plantarum</i> , <b>2018</b> , 40, 1	2.6	10
17	Potential impacts of climate change factors and agronomic adaptation strategies on wheat yields in central highlands of Ethiopia. <i>Climatic Change</i> , <b>2020</b> , 159, 461-479	4.5	9
16	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> , <b>2018</b> , 23, 796-809		9

15	High temperature stress. <b>2014</b> , 201-220		7
14	Iron Chlorosis <b>2017</b> , 246-255		6
13	Nitrogen and potassium deficiency identification in maize by image mining, spectral and true colour response. <i>Indian Journal of Plant Physiology</i> , <b>2018</b> , 23, 91-99		6
12	Drought and High Temperature Stress in Sorghum: Physiological, Genetic, and Molecular Insights and Breeding Approaches. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	6
11	Lipid-based Fe- and Zn- nanoformulation is more effective in alleviating Fe- and Zn- deficiency in maize. <i>Journal of Plant Nutrition</i> , <b>2019</b> , 42, 1693-1708	2.3	5
10	Integrating root architecture and physiological approaches for improving drought tolerance in common bean ( <i>Phaseolus vulgaris</i> L.). <i>Plant Physiology Reports</i> , <b>2021</b> , 26, 4-22	1.4	2
9	Agroclimatology of Maize, Sorghum, and Pearl Millet. <i>Agronomy</i> , <b>2018</b> , 201-241	0.8	2
8	Variation in stalk rot resistance and physiological traits of sorghum genotypes in the field under high temperature. <i>Journal of General Plant Pathology</i> , <b>2020</b> , 86, 350-359	1	1
7	Nanocatalysts and Biofuels <b>2020</b> , 1-22		1
6	Variations in photosynthesis associated traits and grain yield of minor millets. <i>Plant Physiology Reports</i> , <b>2020</b> , 25, 418-425	1.4	0
5	Agroclimatology of Oats, Barley, and Minor Millets. <i>Agronomy</i> , <b>2018</b> , 243-277	0.8	0
4	Gibberellic acid biosynthesis during dehydration phase of priming increases seed vigour of tomato. <i>Plant Growth Regulation</i> , 1	3.2	
3	Sustainable Intensification <b>2021</b> , 1-24		
2	Seed Viability Test: A Semi-Throughput Method to Screen Oilseeds for Biodiesel Production. <i>Methods in Molecular Biology</i> , <b>2021</b> , 2290, 129-138	1.4	
1	A Combined Nutrient/Biocontrol Agent Mixture Improve Cassava Tuber Yield and Cassava Mosaic Disease. <i>Agronomy</i> , <b>2021</b> , 11, 1650	3.6	