Raju Bheemanahalli

List of Publications by Year
in descending order

36 papers	1,141 citations	566801 15 h-index	433756 31 g-index
38 all docs	38 docs citations	38 times ranked	1138 citing authors

#	Article	IF	Citations
1	Field crops and the fear of heat stressâ€”Opportunities, challenges and future directions. Field Crops Research, 2017, 200, 114-121.	2.3	290
2	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
3	Carbon balance and sourceâ€sink metabolic changes in winter wheat exposed to high nightâ€time temperature. Plant, Cell and Environment, 2019, 42, 1233-1246.	2.8	91
4	Is early morning flowering an effective trait to minimize heat stress damage during flowering in rice?. Field Crops Research, 2017, 203, 238-242.	2.3	76
5	High night temperature effects on wheat and rice: Current status and way forward. Plant, Cell and Environment, 2021, 44, 2049-2065.	2.8	61
6	High night temperature induced changes in grain starch metabolism alters starch, protein, and lipid accumulation in winter wheat. Plant, Cell and Environment, 2020, 43, 431-447.	2.8	49
7	Temperature thresholds for spikelet sterility and associated warming impacts for sub-tropical rice. Agricultural and Forest Meteorology, 2016, 221, 122-130.	1.9	48
8	Genomeâ€wide association mapping for phenotypic plasticity in rice. Plant, Cell and Environment, 2017, 40, 1565-1575.	2.8	45
9	Deterioration of ovary plays a key role in heat stressâ€induced spikelet sterility in sorghum. Plant, Cell and Environment, 2020, 43, 448-462.	2.8	40
10	New candidate loci and marker genes on chromosome 7 for improved chilling tolerance in sorghum. Journal of Experimental Botany, 2019, 70, 3357-3371.	2.4	31
11	Integrated aerial and destructive phenotyping differentiates chilling stress tolerance during early seedling growth in sorghum. Field Crops Research, 2018, 227, 1-10.	2.3	28
12	Integrating field-based heat tents and cyber-physical system technology to phenotype high night-time temperature impact on winter wheat. Plant Methods, 2019, 15, 41.	1.9	27
13	Classical phenotyping and deep learning concur on genetic control of stomatal density and area in sorghum. Plant Physiology, 2021, 186, 1562-1579.	2.3	26
14	Capturing heat stress induced variability in spikelet sterility using panicle, leaf and air temperature under field conditions. Field Crops Research, 2016, 190, 10-17.	2.3	25
15	Introgression of Root and Water Use Efficiency Traits Enhances Water Productivity: An Evidence for Physiological Breeding in Rice (Oryza sativa L.). Rice, 2019, 12, 14.	1.7	23
16	Quantifying the agronomic performance of new grain sorghum hybrids for enhanced early-stage chilling tolerance. Field Crops Research, 2020, 258, 107955.	2.3	17
17	Morpho-Physiological Characterization of Diverse Rice Genotypes for Seedling Stage High- and Low-Temperature Tolerance. Agronomy, 2021, 11, 112.	1.3	17
18	Enhanced Nâ€metabolites, <scp>ABA</scp> and <scp>IAA</scp>â€conjugate in anthers instigate heat sensitivity in spring wheat. Physiologia Plantarum, 2020, 169, 501-514.	2.6	15

#	Article	IF	Citations
19	Drought, Low Nitrogen Stress, and Ultraviolet-B Radiation Effects on Growth, Development, and Physiology of Sweetpotato Cultivars during Early Season. Genes, 2022, 13, 156.	1.0	13
20	High-Temperature and Drought-Resilience Traits among Interspecific Chromosome Substitution Lines for Genetic Improvement of Upland Cotton. Plants, 2020, 9, 1747.	1.6	12
21	Improved cyber-physical system captured post-flowering high night temperature impact on yield and quality of field grown wheat. Scientific Reports, 2020, 10, 22213.	1.6	12
22	Deep learning based high-throughput phenotyping of chalkiness in rice exposed to high night temperature. Plant Methods, 2022, 18, 9.	1.9	12
23	Root anatomy based on root cross-section image analysis with deep learning. Computers and Electronics in Agriculture, 2020, 175, 105549.	3.7	11
24	Morpho-Physiological, Yield, and Transgenerational Seed Germination Responses of Soybean to Temperature. Frontiers in Plant Science, 2022, 13, 839270.	1.7	11
25	Genome-wide association study and gene network analyses reveal potential candidate genes for high night temperature tolerance in rice. Scientific Reports, 2021, 11, 6747.	1.6	10
26	Sheathed Panicle Phenotype (cv. Sathi) Maintains Normal Spikelet Fertility and Grain Filling under Prolonged Heat Stress in Rice. Crop Science, 2018, 58, 1693-1705.	0.8	9
27	Developing functional relationships between temperature and cover crop species vegetative growth and development. Agronomy Journal, 2021, 113, 1333-1348.	0.9	9
28	Physiological and pollen-based screening of shrub roses for hot and drought environments. Scientia Horticulturae, 2021, 282, 110062.	1.7	9
29	Root anatomical traits of wild-rices reveal links between flooded rice and dryland sorghum. Plant Physiology Reports, 2019, 24, 155-167.	0.7	7
30	Grain micronutrient composition and yield components in fieldâ€grown wheat are negatively impacted by high nightâ€time temperature. Cereal Chemistry, 0, , .	1.1	7
31	Assessment of agro-morphological, physiological and yield traits diversity among tropical rice. PeerJ, 2021, 9, e11752.	0.9	6
32	Phenotyping of Southern United States Soybean Cultivars for Potential Seed Weight and Seed Quality Compositions. Agronomy, 2022, 12, 839.	1.3	4
33	Genetic dissection of photochemical efficiency under water-deficit stress in rice. Plant Physiology Reports, 2019, 24, 328-339.	0.7	2
34	Early Detection of Root-Knot Nematode (Meloidogyne Incognita) Infestation in Cotton Using Hyperspectral Data. , 2021, , .		2
35	Low- and High-Temperature Phenotypic Diversity of Brassica carinata Genotypes for Early-Season Growth and Development. Frontiers in Plant Science, 0, 13, .	1.7	2
36	Genetic control of sourceâ€“sink relationships in grain sorghum. Planta, 2022, 255, 40.	1.6	1