

Raju Bheemanahalli

List of Publications by Year in descending order

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Version: 2024-02-01

36
papers

1,141
citations

567281

15
h-index

434195

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 stress—Opportunities, challenges and future directions. <i>Field Crops Research</i> , 2017, 200, 114-121.	5.1	290
2	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
3	Carbon balance and source-sink metabolic changes in winter wheat exposed to high night-time temperature. <i>Plant, Cell and Environment</i> , 2019, 42, 1233-1246.	5.7	91
4	Is early morning flowering an effective trait to minimize heat stress damage during flowering in rice?. <i>Field Crops Research</i> , 2017, 203, 238-242.	5.1	76
5	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
6	High night temperature induced changes in grain starch metabolism alters starch, protein, and lipid accumulation in winter wheat. <i>Plant, Cell and Environment</i> , 2020, 43, 431-447.	5.7	49
7	Temperature thresholds for spikelet sterility and associated warming impacts for sub-tropical rice. <i>Agricultural and Forest Meteorology</i> , 2016, 221, 122-130.	4.8	48
8	Genome-wide association mapping for phenotypic plasticity in rice. <i>Plant, Cell and Environment</i> , 2017, 40, 1565-1575.	5.7	45
9	Deterioration of ovary plays a key role in heat stress-induced spikelet sterility in sorghum. <i>Plant, Cell and Environment</i> , 2020, 43, 448-462.	5.7	40
10	New candidate loci and marker genes on chromosome 7 for improved chilling tolerance in sorghum. <i>Journal of Experimental Botany</i> , 2019, 70, 3357-3371.	4.8	31
11	Integrated aerial and destructive phenotyping differentiates chilling stress tolerance during early seedling growth in sorghum. <i>Field Crops Research</i> , 2018, 227, 1-10.	5.1	28
12	Integrating field-based heat tents and cyber-physical system technology to phenotype high night-time temperature impact on winter wheat. <i>Plant Methods</i> , 2019, 15, 41.	4.3	27
13	Classical phenotyping and deep learning concur on genetic control of stomatal density and area in sorghum. <i>Plant Physiology</i> , 2021, 186, 1562-1579.	4.8	26
14	Capturing heat stress induced variability in spikelet sterility using panicle, leaf and air temperature under field conditions. <i>Field Crops Research</i> , 2016, 190, 10-17.	5.1	25
15	Introgression of Root and Water Use Efficiency Traits Enhances Water Productivity: An Evidence for Physiological Breeding in Rice (<i>Oryza sativa</i> L.). <i>Rice</i> , 2019, 12, 14.	4.0	23
16	Quantifying the agronomic performance of new grain sorghum hybrids for enhanced early-stage chilling tolerance. <i>Field Crops Research</i> , 2020, 258, 107955.	5.1	17
17	Morpho-Physiological Characterization of Diverse Rice Genotypes for Seedling Stage High- and Low-Temperature Tolerance. <i>Agronomy</i> , 2021, 11, 112.	3.0	17
18	Enhanced Na ⁺ metabolites, ABA and IAA conjugate in anthers instigate heat sensitivity in spring wheat. <i>Physiologia Plantarum</i> , 2020, 169, 501-514.	5.2	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. <i>Genes</i> , 2022, 13, 156.	2.4	13
20	High-Temperature and Drought-Resilience Traits among Interspecific Chromosome Substitution Lines for Genetic Improvement of Upland Cotton. <i>Plants</i> , 2020, 9, 1747.	3.5	12
21	Improved cyber-physical system captured post-flowering high night temperature impact on yield and quality of field grown wheat. <i>Scientific Reports</i> , 2020, 10, 22213.	3.3	12
22	Deep learning based high-throughput phenotyping of chalkiness in rice exposed to high night temperature. <i>Plant Methods</i> , 2022, 18, 9.	4.3	12
23	Root anatomy based on root cross-section image analysis with deep learning. <i>Computers and Electronics in Agriculture</i> , 2020, 175, 105549.	7.7	11
24	Morpho-Physiological, Yield, and Transgenerational Seed Germination Responses of Soybean to Temperature. <i>Frontiers in Plant Science</i> , 2022, 13, 839270.	3.6	11
25	Genome-wide association study and gene network analyses reveal potential candidate genes for high night temperature tolerance in rice. <i>Scientific Reports</i> , 2021, 11, 6747.	3.3	10
26	Sheathed Panicle Phenotype (cv. Sathi) Maintains Normal Spikelet Fertility and Grain Filling under Prolonged Heat Stress in Rice. <i>Crop Science</i> , 2018, 58, 1693-1705.	1.8	9
27	Developing functional relationships between temperature and cover crop species vegetative growth and development. <i>Agronomy Journal</i> , 2021, 113, 1333-1348.	1.8	9
28	Physiological and pollen-based screening of shrub roses for hot and drought environments. <i>Scientia Horticulturae</i> , 2021, 282, 110062.	3.6	9
29	Root anatomical traits of wild-rices reveal links between flooded rice and dryland sorghum. <i>Plant Physiology Reports</i> , 2019, 24, 155-167.	1.5	7
30	Grain micronutrient composition and yield components in field-grown wheat are negatively impacted by high night-time temperature. <i>Cereal Chemistry</i> , 0, , .	2.2	7
31	Assessment of agro-morphological, physiological and yield traits diversity among tropical rice. <i>PeerJ</i> , 2021, 9, e11752.	2.0	6
32	Phenotyping of Southern United States Soybean Cultivars for Potential Seed Weight and Seed Quality Compositions. <i>Agronomy</i> , 2022, 12, 839.	3.0	4
33	Genetic dissection of photochemical efficiency under water-deficit stress in rice. <i>Plant Physiology Reports</i> , 2019, 24, 328-339.	1.5	2
34	Early Detection of Root-Knot Nematode (<i>Meloidogyne Incognita</i>) 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. <i>Frontiers in Plant Science</i> , 0, 13, .	3.6	2
36	Genetic control of source-sink relationships in grain sorghum. <i>Planta</i> , 2022, 255, 40.	3.2	1