Muthusamy Ramakrishnan

List of Publications by Year
in descending order

47	2,927	361413	243625
papers	citations	20 h-index	44 g-index

50	50	50	2451
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Worldwide pesticide usage and its impacts on ecosystem. SN Applied Sciences, 2019, 1, 1.	2.9	863
2	Photosynthetic Response of Plants Under Different Abiotic Stresses: A Review. Journal of Plant Growth Regulation, 2020, 39, 509-531.	5.1	406
3	Trichoderma: The â€œSecretsâ€•of a Multitalented Biocontrol Agent. Plants, 2020, 9, 762.	3.5	287
4	The Impact of Drought in Plant Metabolism: How to Exploit Tolerance Mechanisms to Increase Crop Production. Applied Sciences (Switzerland), 2020, 10, 5692.	2.5	281
5	Genetics and genomics of moso bamboo (Phyllostachys edulis): Current status, future challenges, and biotechnological opportunities toward a sustainable bamboo industry. Food and Energy Security, 2020, 9, e229.	4.3	80
6	Finger Millet [Eleusine coracana (L.) Gaertn.] Improvement: Current Status and Future Interventions of Whole Genome Sequence. Frontiers in Plant Science, 2018, 9, 1054.	3.6	71
7	Castasterone attenuates insecticide induced phytotoxicity in mustard. Ecotoxicology and Environmental Safety, 2019, 179, 50-61.	6.0	68
8	Thermochemical liquefaction of agricultural and forestry wastes into biofuels and chemicals from circular economy perspectives. Science of the Total Environment, 2020, 749, 141972.	8.0	63
9	Utilization of molecular markers for improving the phosphorus efficiency in crop plants. Plant Breeding, 2018, 137, 10-26.	1.9	62
10	Identification of putative QTLs for seedling stage phosphorus starvation response in finger millet (Eleusine coracana L. Gaertn.) by association mapping and cross species synteny analysis. PLoS ONE, 2017, 12, e0183261.	2.5	52
11	Using molecular markers to assess the genetic diversity and population structure of finger millet (Eleusine coracana (L.) Gaertn.) from various geographical regions. Genetic Resources and Crop Evolution, 2016, 63, 361-376.	1.6	51
12	Rapid growth of Moso bamboo (Phyllostachys edulis): Cellular roadmaps, transcriptome dynamics, and environmental factors. Plant Cell, 2022, 34, 3577-3610.	6.6	50
13	Tracing QTLs for Leaf Blast Resistance and Agronomic Performance of Finger Millet (Eleusine) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T Analyses. PLoS ONE, 2016, 11, e0159264.	2.5	46
14	Assessment of genetic diversity, population structure and relationships in Indian and non-Indian genotypes of finger millet (Eleusine coracana (L.) Gaertn) using genomic SSR markers. SpringerPlus, 2016, 5, 120.	1.2	44
15	The Dynamism of Transposon Methylation for Plant Development and Stress Adaptation. International Journal of Molecular Sciences, 2021, 22, 11387.	4.1	43
16	Multi-omics analysis of cellular pathways involved in different rapid growth stages of moso bamboo. Tree Physiology, 2020, 40, 1487-1508.	3.1	39
17	Agricultural waste streams as resource in circular economy for biochar production towards carbon neutrality. Current Opinion in Environmental Science and Health, 2022, 26, 100339.	4.1	38
18	Current strategies and prospects in algae for remediation and biofuels: An overview. Biocatalysis and Agricultural Biotechnology, 2021, 35, 102045.	3.1	34

#	Article	IF	Citations
19	Efficacious somatic embryogenesis and fertile plant recovery from shoot apex explants of onion (Allium cepa. L.). In Vitro Cellular and Developmental Biology - Plant, 2013, 49, 285-293.	2.1	29
20	Development and Deployment of High-Throughput Retrotransposon-Based Markers Reveal Genetic Diversity and Population Structure of Asian Bamboo. Forests, 2020, 11, 31.	2.1	28
21	Genome-wide identification and expression analysis of LBD transcription factor genes in Moso bamboo (Phyllostachys edulis). BMC Plant Biology, 2021, 21, 296.	3.6	24
22	Redox status of the plant cell determines epigenetic modifications under abiotic stress conditions and during developmental processes. Journal of Advanced Research, 2022, 42, 99-116.	9.5	23
23	Nitric Oxide Ameliorates Plant Metal Toxicity by Increasing Antioxidant Capacity and Reducing Pb and Cd Translocation. Antioxidants, 2021, 10, 1981.	5.1	20
24	Efficient plant regeneration from shoot apex explants of maize (Zea mays) and analysis of genetic fidelity of regenerated plants by ISSR markers. Plant Cell, Tissue and Organ Culture, 2014, 119, 183-196.	2.3	19
25	Microsatellite markers of finger millet (Eleusine coracana (L.) Gaertn) and foxtail millet (Setaria) Tj ETQq1 1 0.784314 rgBT /Overlock 10 other millets. Biocatalysis and Agricultural Biotechnology, 2018, 16, 493-501.	3.1	18
26	Hybridization and hybrid detection through molecular markers in finger millet [Eleusine coracana(L.) Gaertn.]. Journal of Crop Improvement, 2020, 34, 335-355.	1.7	18
27	Effect of l-glutamine and casein hydrolysate in the development of somatic embryos from cotyledonary leaf explants in okra (Abelmoschus esculentus L. monech). South African Journal of Botany, 2018, 114, 223-231.	2.5	17
28	Co-Application of 24-Epibrassinolide and Titanium Oxide Nanoparticles Promotes Pleioblastus pygmaeus Plant Tolerance to Cu and Cd Toxicity by Increasing Antioxidant Activity and Photosynthetic Capacity and Reducing Heavy Metal Accumulation and Translocation. Antioxidants, 2022, 11, 451.	5.1	14
29	Phenotypic responses of foxtail millet (Setaria italica) genotypes to phosphate supply under greenhouse and natural field conditions. PLoS ONE, 2020, 15, e0233896.	2.5	13
30	Transcriptomicsâ€based identification and characterization of genes related to sugar metabolism in â€˜Hongshuijingâ€™ pitaya. Horticultural Plant Journal, 2022, 8, 450-460.	5.0	13
31	Brassinosteroids and metalloids: Regulation of plant biology. Journal of Hazardous Materials, 2022, 424, 127518.	12.4	13
32	Different Physiological and Biochemical Responses of Bamboo to the Addition of TiO2 NPs under Heavy Metal Toxicity. Forests, 2021, 12, 759.	2.1	11
33	Nuclear export signal (NES) of transposases affects the transposition activity of mariner-like elements Ppmar1 and Ppmar2 of moso bamboo. Mobile DNA, 2019, 10, 35.	3.6	10
34	Cellular and molecular characterizations of the irregular internode division zone formation of a slow-growing bamboo variant. Tree Physiology, 2022, 42, 570-584.	3.1	10
35	The plant epitranscriptome: revisiting pseudouridine and 2â€²â€Oâ€methyl RNA modifications. Plant Biotechnology Journal, 2022, 20, 1241-1256.	8.3	10
36	Affinities of Terminal Inverted Repeats to DNA Binding Domain of Transposase Affect the Transposition Activity of Bamboo Ppmar2 Mariner-Like Element. International Journal of Molecular Sciences, 2019, 20, 3692.	4.1	9

#	Article	IF	Citations
37	Mining QTL and genes for root traits and biochemical parameters under vegetative drought in South Indian genotypes of finger millet (Eleusine coracana (L.) Gaertn) by association mapping and in silico comparative genomics. Biocatalysis and Agricultural Biotechnology, 2021, 32, 101935.	3.1	9
38	Transposable elements in plants: Recent advancements, tools and prospects. Plant Molecular Biology Reporter, 0, , 1.	1.8	9
39	Prospects for the study of genetic variation among Moso bamboo wild-type and variants through genome resequencing. Trees - Structure and Function, 2019, 33, 371-381.	1.9	8
40	Long terminal repeats (LTR) and transcription factors regulate PHRE1 and PHRE2 activity in Moso bamboo under heat stress. BMC Plant Biology, 2021, 21, 585.	3.6	6
41	Genome-Wide Identification of JRL Genes in Moso Bamboo and Their Expression Profiles in Response to Multiple Hormones and Abiotic Stresses. Frontiers in Plant Science, 2021, 12, 809666.	3.6	4
42	Genome-wide identification and expression characterization of theÂDoG gene family of moso bamboo (Phyllostachys edulis). BMC Genomics, 2022, 23, 357.	2.8	4
43	Bamboo Transposon Research: Current Status and Perspectives. Methods in Molecular Biology, 2021, 2250, 257-270.	0.9	3
44	Haplotype and diversity analysis of indigenous rice for salinity tolerance in early-stage seedling using simple sequence repeat markers. Biotechnology Reports (Amsterdam, Netherlands), 2021, 31, e00666.	4.4	3
45	Molecular genotypic diversity of populations of brinjal shoot and fruit borer, Leucinodes orbonalis and development of SCAR marker for pesticide resistance. Molecular Biology Reports, 2021, 48, 7787-7800.	2.3	3
46	Expression of GroES TB antigen in tobacco and potato. Plant Cell, Tissue and Organ Culture, 2014, 119, 157-169.	2.3	0
47	Genus Decalepis: Biology, Importance and Biotechnological Interventions. Agronomy, 2022, 12, 855.	3.0	0