

# Muthusamy Ramakrishnan

## List of Publications by Year in descending order

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Version: 2024-02-01

47  
papers

2,927  
citations

361413

20  
h-index

243625

44  
g-index

50  
all docs

50  
docs citations

50  
times ranked

2451  
citing authors

#	ARTICLE	IF	CITATIONS
1	Transcriptomics-based identification and characterization of genes related to sugar metabolism in <i>Hongshuijing</i> pitaya. <i>Horticultural Plant Journal</i> , 2022, 8, 450-460.	5.0	13
2	Cellular and molecular characterizations of the irregular internode division zone formation of a slow-growing bamboo variant. <i>Tree Physiology</i> , 2022, 42, 570-584.	3.1	10
3	Brassinosteroids and metalloids: Regulation of plant biology. <i>Journal of Hazardous Materials</i> , 2022, 424, 127518.	12.4	13
4	Agricultural waste streams as resource in circular economy for biochar production towards carbon neutrality. <i>Current Opinion in Environmental Science and Health</i> , 2022, 26, 100339.	4.1	38
5	Co-Application of 24-Epibrassinolide and Titanium Oxide Nanoparticles Promotes <i>Pleioblastus pygmaeus</i> Plant Tolerance to Cu and Cd Toxicity by Increasing Antioxidant Activity and Photosynthetic Capacity and Reducing Heavy Metal Accumulation and Translocation. <i>Antioxidants</i> , 2022, 11, 451.	5.1	14
6	Genus <i>Decalepis</i> : Biology, Importance and Biotechnological Interventions. <i>Agronomy</i> , 2022, 12, 855.	3.0	0
7	The plant epitranscriptome: revisiting pseudouridine and 2-O-methyl RNA modifications. <i>Plant Biotechnology Journal</i> , 2022, 20, 1241-1256.	8.3	10
8	Redox status of the plant cell determines epigenetic modifications under abiotic stress conditions and during developmental processes. <i>Journal of Advanced Research</i> , 2022, 42, 99-116.	9.5	23
9	Genome-wide identification and expression characterization of the DoG gene family of moso bamboo ( <i>Phyllostachys edulis</i> ). <i>BMC Genomics</i> , 2022, 23, 357.	2.8	4
10	Rapid growth of Moso bamboo ( <i>Phyllostachys edulis</i> ): Cellular roadmaps, transcriptome dynamics, and environmental factors. <i>Plant Cell</i> , 2022, 34, 3577-3610.	6.6	50
11	Bamboo Transposon Research: Current Status and Perspectives. <i>Methods in Molecular Biology</i> , 2021, 2250, 257-270.	0.9	3
12	Mining QTL and genes for root traits and biochemical parameters under vegetative drought in South Indian genotypes of finger millet ( <i>Eleusine coracana</i> (L.) Gaertn) by association mapping and in silico comparative genomics. <i>Biocatalysis and Agricultural Biotechnology</i> , 2021, 32, 101935.	3.1	9
13	Genome-wide identification and expression analysis of LBD transcription factor genes in Moso bamboo ( <i>Phyllostachys edulis</i> ). <i>BMC Plant Biology</i> , 2021, 21, 296.	3.6	24
14	Different Physiological and Biochemical Responses of Bamboo to the Addition of TiO <sub>2</sub> NPs under Heavy Metal Toxicity. <i>Forests</i> , 2021, 12, 759.	2.1	11
15	Current strategies and prospects in algae for remediation and biofuels: An overview. <i>Biocatalysis and Agricultural Biotechnology</i> , 2021, 35, 102045.	3.1	34
16	Haplotype and diversity analysis of indigenous rice for salinity tolerance in early-stage seedling using simple sequence repeat markers. <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , 2021, 31, e00666.	4.4	3
17	The Dynamism of Transposon Methylation for Plant Development and Stress Adaptation. <i>International Journal of Molecular Sciences</i> , 2021, 22, 11387.	4.1	43
18	Molecular genotypic diversity of populations of brinjal shoot and fruit borer, <i>Leucinodes orbonalis</i> and development of SCAR marker for pesticide resistance. <i>Molecular Biology Reports</i> , 2021, 48, 7787-7800.	2.3	3

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19	Genome-Wide Identification of JRL Genes in Moso Bamboo and Their Expression Profiles in Response to Multiple Hormones and Abiotic Stresses. <i>Frontiers in Plant Science</i> , 2021, 12, 809666.	3.6	4
20	Nitric Oxide Ameliorates Plant Metal Toxicity by Increasing Antioxidant Capacity and Reducing Pb and Cd Translocation. <i>Antioxidants</i> , 2021, 10, 1981.	5.1	20
21	Long terminal repeats (LTR) and transcription factors regulate PHRE1 and PHRE2 activity in Moso bamboo under heat stress. <i>BMC Plant Biology</i> , 2021, 21, 585.	3.6	6
22	Photosynthetic Response of Plants Under Different Abiotic Stresses: A Review. <i>Journal of Plant Growth Regulation</i> , 2020, 39, 509-531.	5.1	406
23	Hybridization and hybrid detection through molecular markers in finger millet [ <i>Eleusine coracana</i> (L.) Gaertn.]. <i>Journal of Crop Improvement</i> , 2020, 34, 335-355.	1.7	18
24	Thermochemical liquefaction of agricultural and forestry wastes into biofuels and chemicals from circular economy perspectives. <i>Science of the Total Environment</i> , 2020, 749, 141972.	8.0	63
25	Multi-omics analysis of cellular pathways involved in different rapid growth stages of moso bamboo. <i>Tree Physiology</i> , 2020, 40, 1487-1508.	3.1	39
26	Genetics and genomics of moso bamboo ( <i>Phyllostachys edulis</i> ): Current status, future challenges, and biotechnological opportunities toward a sustainable bamboo industry. <i>Food and Energy Security</i> , 2020, 9, e229.	4.3	80
27	The Impact of Drought in Plant Metabolism: How to Exploit Tolerance Mechanisms to Increase Crop Production. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 5692.	2.5	281
28	Phenotypic responses of foxtail millet ( <i>Setaria italica</i> ) genotypes to phosphate supply under greenhouse and natural field conditions. <i>PLoS ONE</i> , 2020, 15, e0233896.	2.5	13
29	Trichoderma: The "Secrets" of a Multitalented Biocontrol Agent. <i>Plants</i> , 2020, 9, 762.	3.5	287
30	Development and Deployment of High-Throughput Retrotransposon-Based Markers Reveal Genetic Diversity and Population Structure of Asian Bamboo. <i>Forests</i> , 2020, 11, 31.	2.1	28
31	Affinities of Terminal Inverted Repeats to DNA Binding Domain of Transposase Affect the Transposition Activity of Bamboo Ppmar2 Mariner-Like Element. <i>International Journal of Molecular Sciences</i> , 2019, 20, 3692.	4.1	9
32	Worldwide pesticide usage and its impacts on ecosystem. <i>SN Applied Sciences</i> , 2019, 1, 1.	2.9	863
33	Nuclear export signal (NES) of transposases affects the transposition activity of mariner-like elements Ppmar1 and Ppmar2 of moso bamboo. <i>Mobile DNA</i> , 2019, 10, 35.	3.6	10
34	Castasterone attenuates insecticide induced phytotoxicity in mustard. <i>Ecotoxicology and Environmental Safety</i> , 2019, 179, 50-61.	6.0	68
35	Prospects for the study of genetic variation among Moso bamboo wild-type and variants through genome resequencing. <i>Trees - Structure and Function</i> , 2019, 33, 371-381.	1.9	8
36	Utilization of molecular markers for improving the phosphorus efficiency in crop plants. <i>Plant Breeding</i> , 2018, 137, 10-26.	1.9	62

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37	Effect of l-glutamine and casein hydrolysate in the development of somatic embryos from cotyledonary leaf explants in okra ( <i>Abelmoschus esculentus</i> L. monech). <i>South African Journal of Botany</i> , 2018, 114, 223-231.	2.5	17
38	Microsatellite markers of finger millet ( <i>Eleusine coracana</i> (L.) Gaertn) and foxtail millet ( <i>Setaria</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 70 other millets. <i>Biocatalysis and Agricultural Biotechnology</i> , 2018, 16, 493-501.	3.1	18
39	Finger Millet [ <i>Eleusine coracana</i> (L.) Gaertn.] Improvement: Current Status and Future Interventions of Whole Genome Sequence. <i>Frontiers in Plant Science</i> , 2018, 9, 1054.	3.6	71
40	Identification of putative QTLs for seedling stage phosphorus starvation response in finger millet ( <i>Eleusine coracana</i> L. Gaertn.) by association mapping and cross species synteny analysis. <i>PLoS ONE</i> , 2017, 12, e0183261.	2.5	52
41	Assessment of genetic diversity, population structure and relationships in Indian and non-Indian genotypes of finger millet ( <i>Eleusine coracana</i> (L.) Gaertn) using genomic SSR markers. <i>SpringerPlus</i> , 2016, 5, 120.	1.2	44
42	Using molecular markers to assess the genetic diversity and population structure of finger millet ( <i>Eleusine coracana</i> (L.) Gaertn.) from various geographical regions. <i>Genetic Resources and Crop Evolution</i> , 2016, 63, 361-376.	1.6	51
43	Tracing QTLs for Leaf Blast Resistance and Agronomic Performance of Finger Millet ( <i>Eleusine</i> ) Tj ETQq1 1 0.784314 rgBT /Overlock 10 TT Analyses. <i>PLoS ONE</i> , 2016, 11, e0159264.	2.5	46
44	Expression of GroES TB antigen in tobacco and potato. <i>Plant Cell, Tissue and Organ Culture</i> , 2014, 119, 157-169.	2.3	0
45	Efficient plant regeneration from shoot apex explants of maize ( <i>Zea mays</i> ) and analysis of genetic fidelity of regenerated plants by ISSR markers. <i>Plant Cell, Tissue and Organ Culture</i> , 2014, 119, 183-196.	2.3	19
46	Efficacious somatic embryogenesis and fertile plant recovery from shoot apex explants of onion ( <i>Allium cepa</i> . L.). <i>In Vitro Cellular and Developmental Biology - Plant</i> , 2013, 49, 285-293.	2.1	29
47	Transposable elements in plants: Recent advancements, tools and prospects. <i>Plant Molecular Biology Reporter</i> , 0, , 1.	1.8	9