# Mahalingam Govindaraj

List of Publications by Year
in descending order



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|---|---|---|---|
| 70 papers | 1,716 citations | 361413<br>20 h-index | 330143<br>37 g-index |
| 73 all docs | 73 docs citations | 73 times ranked | 1571 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Editorial: Sorghum and Pearl Millet as Climate Resilient Crops for Food and Nutrition Security. Frontiers in Plant Science, 2022, 13, 851970. | 3.6 | 12 |
| 2 | Breeding Drought-Tolerant Pearl Millet Using Conventional and Genomic Approaches: Achievements and Prospects. Frontiers in Plant Science, 2022, 13, 781524. | 3.6 | 16 |
| 3 | Exploring plant growth-promoting. Crop and Pasture Science, 2022, 73, 484-493. | 1.5 | 5 |
| 4 | Identification of Candidate Genes Regulating Drought Tolerance in Pearl Millet. International Journal of Molecular Sciences, 2022, 23, 6907. | 4.1 | 8 |
| 5 | Harnessing wild relatives of pearl millet for germplasm enhancement: Challenges and opportunities. Crop Science, 2021, 61, 177-200. | 1.8 | 22 |
| 6 | Efficacy of seed defense proteins in biofortified pearl millet lines against blast and downy mildew. Acta Physiologiae Plantarum, 2021, 43, 1. | 2.1 | 0 |
| 7 | Deciphering the antagonistic effect of Streptomyces spp. and host-plant resistance induction against charcoal rot of sorghum. Planta, 2021, 253, 57. | 3.2 | 14 |
| 8 | Genetic Gains in Pearl Millet in India: Insights Into Historic Breeding Strategies and Future Perspective. Frontiers in Plant Science, 2021, 12, 645038. | 3.6 | 35 |
| 9 | Performance and Stability of Pearl Millet Varieties for Grain Yield and Micronutrients in Arid and Semi-Arid Regions of India. Frontiers in Plant Science, 2021, 12, 670201. | 3.6 | 19 |
| 10 | Harnessing Sorghum Landraces to Breed High-Yielding, Grain Mold-Tolerant Cultivars With High Protein for Drought-Prone Environments. Frontiers in Plant Science, 2021, 12, 659874. | 3.6 | 11 |
| 11 | Sorghum Pan-Genome Explores the Functional Utility for Genomic-Assisted Breeding to Accelerate the Genetic Gain. Frontiers in Plant Science, 2021, 12, 666342. | 3.6 | 41 |
| 12 | Development of Sorghum Genotypes for Improved Yield and Resistance to Grain Mold Using Population Breeding Approach. Frontiers in Plant Science, 2021, 12, 687332. | 3.6 | 8 |
| 13 | Identification of High-Yielding Iron-Biofortified Open-Pollinated Varieties of Pearl Millet in West Africa. Frontiers in Plant Science, 2021, 12, 688937. | 3.6 | 6 |
| 14 | Transition From Targeted Breeding to Mainstreaming of Biofortification Traits in Crop Improvement Programs. Frontiers in Plant Science, 2021, 12, 703990. | 3.6 | 21 |
| 15 | Drought and High Temperature Stress in Sorghum: Physiological, Genetic, and Molecular Insights and Breeding Approaches. International Journal of Molecular Sciences, 2021, 22, 9826. | 4.1 | 39 |
| 16 | Addressing Iron and Zinc Micronutrient Malnutrition Through Nutrigenomics in Pearl Millet: Advances and Prospects. Frontiers in Genetics, 2021, 12, 723472. | 2.3 | 6 |
| 17 | Generation Mean Analysis Reveals the Predominant Gene Effects for Grain Iron and Zinc Contents in Pearl Millet. Frontiers in Plant Science, 2021, 12, 693680. | 3.6 | 5 |
| 18 | Association of Grain Iron and Zinc Content With Other Nutrients in Pearl Millet Germplasm, Breeding Lines, and Hybrids. Frontiers in Nutrition, 2021, 8, 746625. | 3.7 | 11 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Balanced amino acid and higher micronutrients in millets complements legumes for improved human dietary nutrition. Cereal Chemistry, 2020, 97, 74-84. | 2.2 | 56 |
| 20 | Genome-wide association study uncovers genomic regions associated with grain iron, zinc and protein content in pearl millet. Scientific Reports, 2020, 10, 19473. | 3.3 | 33 |
| 21 | Exploring the genetic variability and diversity of pearl millet core collection germplasm for grain nutritional traits improvement. Scientific Reports, 2020, 10, 21177. | 3.3 | 17 |
| 22 | Identification and Characterization of a Streptomyces albus Strain and Its Secondary Metabolite Organophosphate against Charcoal Rot of Sorghum. Plants, 2020, 9, 1727. | 3.5 | 18 |
| 23 | Comparative Profiling of Volatile Compounds in Popular South Indian Traditional and Modern Rice Varieties by Gas Chromatographyâ€"Mass Spectrometry Analysis. Frontiers in Nutrition, 2020, 7, 599119. | 3.7 | 18 |
| 24 | Genetic variation and diversity for grain iron, zinc, protein and agronomic traits in advanced breeding lines of pearl millet [Pennisetum glaucum (L.) R. Br.] for biofortification breeding. Genetic Resources and Crop Evolution, 2020, 67, 2009-2022. | 1.6 | 26 |
| 25 | Genomics-Integrated Breeding for Carotenoids and Folates in Staple Cereal Grains to Reduce Malnutrition. Frontiers in Genetics, 2020, 11, 414. | 2.3 | 29 |
| 26 | Genetic Variability, Diversity and Interrelationship for Twelve Grain Minerals in 122 Commercial Pearl Millet Cultivars in India. Agricultural Research, 2020, 9, 516-525. | 1.7 | 10 |
| 27 | Biofortified pearl millet cultivars offer potential solution to tackle malnutrition in India.. , 2020, , 385-396. | | 9 |
| 28 | Gene effects and heterosis for grain Fe and Zn content in barnyard millet (Echinochloa frumentacea) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 | 0.4 | 2 |
| 29 | Maternal inheritance for grain iron and zinc densities in pearl millet. Indian Journal of Genetics and Plant Breeding, 2020, 79, . | 0.5 | 1 |
| 30 | Nutritional Security in Drylands: Fast-Track Intra-Population Genetic Improvement for Grain Iron and Zinc Densities in Pearl Millet. Frontiers in Nutrition, 2019, 6, 74. | 3.7 | 6 |
| 31 | Breeding Biofortified Pearl Millet Varieties and Hybrids to Enhance Millet Markets for Human Nutrition. Agriculture (Switzerland), 2019, 9, 106. | 3.1 | 39 |
| 32 | Conventional and Molecular Breeding Approaches for Biofortification of Pearl Millet. , 2019, , 85-107. | | 5 |
| 33 | Application of Plant Breeding and Genomics for Improved Sorghum and Pearl Millet Grain Nutritional Quality. , 2019, , 51-68. | | 6 |
| 34 | Improvement of restorer lines for strengthening pearl millet (Pennisetum glaucum L.) hybrid breeding in West and Central Africa. Journal of Agricultural and Crop Research, 2019, 7, 204-214. | 0.3 | 3 |
| 35 | Effect of isonuclear-alloplasmic cytoplasmic male sterility system on grain yield traits in pearl millet. Indian Journal of Genetics and Plant Breeding, 2019, 79, . | 0.5 | 2 |
| 36 | Terminal drought and a d dwarfing gene affecting grain iron and zinc density in pearl millet. Journal of Cereal Science, 2018, 79, 247-252. | 3.7 | 1 |

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|---|---|---|---|
| 37 | Inheritance of fertility restoration of A<sub>5</sub> cytoplasmic-nuclear male sterility system in pearl millet [<i>Pennisetum glaucum</i> (L.) R. Br.]. Indian Journal of Genetics and Plant Breeding, 2018, 78, 228. | 0.5 | 7 |
| 38 | Effect of grain colour on iron and zinc density in pearl millet. Indian Journal of Genetics and Plant Breeding, 2018, 78, 247. | 0.5 | 2 |
| 39 | Reselection within population for high grain iron density and its effects on agronomic traits in pearl millet. Electronic Journal of Plant Breeding, 2018, 9, 450. | 0.1 | 0 |
| 40 | Inbreeding Effects on Grain Iron and Zinc Concentrations in Pearl Millet. Crop Science, 2017, 57, 2699-2706. | 1.8 | 4 |
| 41 | Possible effect of threshing method on grain iron and zinc density estimation in pearl millet: a contribution to biofortification breeding. Electronic Journal of Plant Breeding, 2017, 8, 668. | 0.1 | 0 |
| 42 | Allelic relationship between restorer genes for A1 and A4 CMS systems in pearl millet. Indian Journal of Genetics and Plant Breeding, 2017, 78, 90. | 0.5 | 0 |
| 43 | Identifying Promising Pearl Millet Hybrids Using AMMI and Clustering Models. International Journal of Current Microbiology and Applied Sciences, 2017, 6, 1348-1359. | 0.1 | 5 |
| 44 | Tester Effect on Combining Ability and Its Relationship with Line Performance per se for Grain Iron and Zinc Densities in Pearl Millet. Crop Science, 2016, 56, 689-696. | 1.8 | 11 |
| 45 | Energy-Dispersive X-ray Fluorescence Spectrometry for Cost-Effective and Rapid Screening of Pearl Millet Germplasm and Breeding Lines for Grain Iron and Zinc Density. Communications in Soil Science and Plant Analysis, 2016, 47, 2126-2134. | 1.4 | 22 |
| 46 | Intra-population genetic variance for grain iron and zinc contents and agronomic traits in pearl millet. Crop Journal, 2016, 4, 48-54. | 5.2 | 24 |
| 47 | Genetic architecture of open-pollinated varieties of pearl millet for grain iron and zinc densities. Indian Journal of Genetics and Plant Breeding, 2016, 76, 299. | 0.5 | 11 |
| 48 | Seed Set and Xenia Effects on Grain Iron and Zinc Density in Pearl Millet. Crop Science, 2015, 55, 821-827. | 1.8 | 13 |
| 49 | Importance of Genetic Diversity Assessment in Crop Plants and Its Recent Advances: An Overview of Its Analytical Perspectives. Genetics Research International, 2015, 2015, 1-14. | 2.0 | 422 |
| 50 | Unlimited Thirst for Genome Sequencing, Data Interpretation, and Database Usage in Genomic Era: The Road towards Fast-Track Crop Plant Improvement. Genetics Research International, 2015, 2015, 1-15. | 2.0 | 18 |
| 51 | <i>Iniadi</i> pearl millet germplasm as a valuable genetic resource for high grain iron and zinc densities. Plant Genetic Resources: Characterisation and Utilisation, 2015, 13, 75-82. | 0.8 | 21 |
| 52 | Electrochemical treatment of endocrine-disrupting chemical from aqueous solution. Desalination and Water Treatment, 2015, 53, 2664-2674. | 1.0 | 9 |
| 53 | Grain iron and zinc density in pearl millet: combining ability, heterosis and association with grain yield and grain size. SpringerPlus, 2014, 3, 763. | 1.2 | 70 |
| 54 | Artificial neural network model for prediction of rock properties from sound level produced during drilling. Geomechanics and Geoengineering, 2013, 8, 53-61. | 1.8 | 24 |

| # | ARTICLE | IF | CITATIONS |
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| 55 | Regression analysis and ANN models to predict rock properties from sound levels produced during drilling. International Journal of Rock Mechanics and Minings Sciences, 2013, 58, 61-72. | 5.8 | 54 |
| 56 | Electrochemical oxidation of bisphenol-A from aqueous solution using graphite electrodes. Environmental Technology (United Kingdom), 2013, 34, 503-511. | 2.2 | 36 |
| 57 | Combining Ability and Heterosis for Grain Iron and Zinc Densities in Pearl Millet. Crop Science, 2013, 53, 507-517. | 1.8 | 65 |
| 58 | Genetic Analysis for Quantitative and Quality Characters in Three Single Crosses of Upland Cotton. Notulae Scientia Biologicae, 2013, 5, 450-453. | 0.4 | 1 |
| 59 | Genetic enhancement of grain iron and zinc content in pearl millet. Quality Assurance and Safety of Crops and Foods, 2012, 4, 119-125. | 3.4 | 96 |
| 60 | Genetics of fertility restoration of the A<sub>4</sub> cytoplasmic-nuclear male sterility system in pearl millet. Czech Journal of Genetics and Plant Breeding, 2012, 48, 87-92. | 0.8 | 10 |
| 61 | Breaking the intergeneric hybridization barrier in Carica papaya and Vasconcellea cauliflora. Scientia Horticulturae, 2011, 130, 787-794. | 3.6 | 23 |
| 62 | Genetic variability and heritability of grain yield components and grain mineral concentration in India's pearl millet (<i>Pennisetum glaucum</i> (L) R. Br.) accessions. African Journal of Food, Agriculture, Nutrition and Development, 2011, 11, . | 0.2 | 15 |
| 63 | A new approach for estimation of properties of metamorphic rocks. International Journal of Mining and Mineral Engineering, 2011, 3, 109. | 0.3 | 13 |
| 64 | Sound level produced during rock drilling vis-Ã-vis rock properties. Engineering Geology, 2011, 123, 333-337. | 6.3 | 37 |
| 65 | Prediction of Uniaxial Compressive Strength, Tensile Strength and Porosity of Sedimentary Rocks Using Sound Level Produced During Rotary Drilling. Rock Mechanics and Rock Engineering, 2011, 44, 613-620. | 5.4 | 48 |
| 66 | Estimating rock properties using sound level during drilling: field investigation. International Journal of Mining and Mineral Engineering, 2010, 2, 169. | 0.3 | 17 |
| 67 | Electrochemical oxidation of tannic acid contaminated wastewater by RuO<sub>2</sub>/IrO<sub>2</sub>/TaO<sub>2</sub>â€coated titanium and graphite anodes. Environmental Technology (United Kingdom), 2010, 31, 1613-1622. | 2.2 | 38 |
| 68 | Comparative Study of Electrocoagulation and Electrooxidation Processes for the Degradation of Ellagic Acid From Aqueous Solution. Separation Science and Technology, 2010, 46, 272-282. | 2.5 | 12 |
| 69 | Decolourization of Rhodamine B from aqueous solution by electrochemical oxidation using graphite electrodes. Desalination and Water Treatment, 0, , 1-7. | 1.0 | 12 |
| 70 | Breeding Cultivars for Heat Stress Tolerance in Staple Food Crops. , 0, , . |  | 13 |