

Nandula Raghuram

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6934744/publications.pdf>

Version: 2024-02-01

60
papers

1,251
citations

471509

17
h-index

434195

31
g-index

62
all docs

62
docs citations

62
times ranked

1253
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Oxidative damage and altered antioxidant enzyme activities in the small intestine of streptozotocin-induced diabetic rats. <i>International Journal of Biochemistry and Cell Biology</i> , 2004, 36, 89-97. | 2.8 | 167 |
| 2 | Oxidative stress and gene expression of antioxidant enzymes in the renal cortex of streptozotocin-induced diabetic rats. <i>Molecular and Cellular Biochemistry</i> , 2003, 243, 147-152. | 3.1 | 129 |
| 3 | Microarray Analysis of Rice d1 (RGA1) Mutant Reveals the Potential Role of G-Protein Alpha Subunit in Regulating Multiple Abiotic Stresses Such as Drought, Salinity, Heat, and Cold. <i>Frontiers in Plant Science</i> , 2016, 7, 11. | 3.6 | 67 |
| 4 | The nitrogen decade: mobilizing global action on nitrogen to 2030 and beyond. <i>One Earth</i> , 2021, 4, 10-14. | 6.8 | 66 |
| 5 | Low degree metabolites explain essential reactions and enhance modularity in biological networks. <i>BMC Bioinformatics</i> , 2006, 7, 118. | 2.6 | 56 |
| 6 | A Research Road Map for Responsible Use of Agricultural Nitrogen. <i>Frontiers in Sustainable Food Systems</i> , 2021, 5, . | 3.9 | 48 |
| 7 | G-protein $\hat{\pm}$ -subunit (GPA1) regulates stress, nitrate and phosphate response, flavonoid biosynthesis, fruit/seed development and substantially shares GCR1 regulation in <i>A. thaliana</i> . <i>Plant Molecular Biology</i> , 2015, 89, 559-576. | 3.9 | 47 |
| 8 | G-protein Signaling Components GCR1 and GPA1 Mediate Responses to Multiple Abiotic Stresses in Arabidopsis. <i>Frontiers in Plant Science</i> , 2015, 6, 1000. | 3.6 | 37 |
| 9 | Evidence for some common signal transduction events for opposite regulation of nitrate reductase and phytochrome-I gene expression by light. <i>Plant Molecular Biology</i> , 1995, 29, 25-35. | 3.9 | 36 |
| 10 | Phenotyping for Nitrogen Use Efficiency: Rice Genotypes Differ in N-Responsive Germination, Oxygen Consumption, Seed Urease Activities, Root Growth, Crop Duration, and Yield at Low N. <i>Frontiers in Plant Science</i> , 2018, 9, 1452. | 3.6 | 32 |
| 11 | Transcriptome Analysis of Arabidopsis GCR1 Mutant Reveals Its Roles in Stress, Hormones, Secondary Metabolism and Phosphate Starvation. <i>PLoS ONE</i> , 2015, 10, e0117819. | 2.5 | 32 |
| 12 | A framework for nitrogen futures in the shared socioeconomic pathways. <i>Global Environmental Change</i> , 2020, 61, 102029. | 7.8 | 30 |
| 13 | Nitrogen Challenges and Opportunities for Agricultural and Environmental Science in India. <i>Frontiers in Sustainable Food Systems</i> , 2021, 5, . | 3.9 | 29 |
| 14 | GCR1 and GPA1 coupling regulates nitrate, cell wall, immunity and light responses in Arabidopsis. <i>Scientific Reports</i> , 2019, 9, 5838. | 3.3 | 23 |
| 15 | Nitrogen Use Efficiency Phenotype and Associated Genes: Roles of Germination, Flowering, Root/Shoot Length and Biomass. <i>Frontiers in Plant Science</i> , 2020, 11, 587464. | 3.6 | 23 |
| 16 | Meta-Analysis of Yield-Related and N-Responsive Genes Reveals Chromosomal Hotspots, Key Processes and Candidate Genes for Nitrogen-Use Efficiency in Rice. <i>Frontiers in Plant Science</i> , 2021, 12, 627955. | 3.6 | 22 |
| 17 | Investigations on the nature of the phytochrome-induced transmitter for the regulation of nitrate reductase in etiolated leaves of maize. <i>Journal of Experimental Botany</i> , 1994, 45, 485-490. | 4.8 | 21 |
| 18 | Light Regulation of Nitrate Reductase Gene Expression in Maize Involves a G-Protein. <i>Molecular Cell Biology Research Communications: MCBRC: Part B of Biochemical and Biophysical Research Communications</i> , 1999, 2, 86-90. | 1.6 | 21 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | From South Asia to the world: embracing the challenge of global sustainable nitrogen management. <i>One Earth</i> , 2021, 4, 22-27. | 6.8 | 21 |
| 20 | Regulation of activity and transcript levels of NR in rice (<i>Oryza sativa</i>): Roles of protein kinase and G-proteins. <i>Plant Science</i> , 2007, 172, 406-413. | 3.6 | 20 |
| 21 | Improving Plant Nitrogen-Use Efficiency. , 2011, , 209-218. | | 19 |
| 22 | The Indian Nitrogen Challenge in a Global Perspective. , 2017, , 9-28. | | 16 |
| 23 | Improving Crop Nitrogen Use Efficiency. , 2019, , 211-220. | | 16 |
| 24 | Transcriptomic and network analyses reveal distinct nitrate responses in light and dark in rice leaves (<i>Oryza sativa Indica</i> var. Panvel1). <i>Scientific Reports</i> , 2020, 10, 12228. | 3.3 | 15 |
| 25 | Heterotrimeric G-protein $\hat{\pm}$ subunit (RGA1) regulates tiller development, yield, cell wall, nitrogen response and biotic stress in rice. <i>Scientific Reports</i> , 2021, 11, 2323. | 3.3 | 14 |
| 26 | Rapid production of ethanol in high concentration by immobilized cells of <i>Saccharomyces cerevisiae</i> through soya flour supplementation. <i>Biotechnology Letters</i> , 1988, 10, 217-220. | 2.2 | 13 |
| 27 | Molecular Targets for Improvement of Crop Nitrogen Use Efficiency: Current and Emerging Options. , 2018, , 77-93. | | 13 |
| 28 | India joins the GM club. <i>Trends in Plant Science</i> , 2002, 7, 322-323. | 8.8 | 12 |
| 29 | Genomewide computational analysis of nitrate response elements in rice and <i>Arabidopsis</i> . <i>Molecular Genetics and Genomics</i> , 2007, 278, 519-525. | 2.1 | 12 |
| 30 | <i>Spirulina</i> nitrate-assimilating enzymes (NR, NiR, GS) have higher specific activities and are more stable than those of rice. <i>Physiology and Molecular Biology of Plants</i> , 2008, 14, 179-182. | 3.1 | 12 |
| 31 | Biological Determinants of Crop Nitrogen Use Efficiency and Biotechnological Avenues for Improvement. , 2020, , 157-171. | | 12 |
| 32 | India's declining ranking. <i>Nature</i> , 1996, 383, 572-572. | 27.8 | 11 |
| 33 | Nitrate-responsive transcriptome analysis reveals additional genes/processes and associated traits viz. height, tillering, heading date, stomatal density and yield in japonica rice. <i>Planta</i> , 2022, 255, 42. | 3.2 | 11 |
| 34 | Flux-based classification of reactions reveals a functional bow-tie organization of complex metabolic networks. <i>Physical Review E</i> , 2013, 87, 052708. | 2.1 | 10 |
| 35 | The pleasure of excellence-led growth and the pain of enforcing publishing ethics: the experience of PMBP. <i>Physiology and Molecular Biology of Plants</i> , 2017, 23, 1-3. | 3.1 | 10 |
| 36 | Indian publishing: enduring the boom. <i>Trends in Plant Science</i> , 2004, 9, 9-12. | 8.8 | 9 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Roles of nitrate, nitrite and ammonium ion in phytochrome regulation of nitrate reductase gene expression in maize. IUBMB Life, 1999, 47, 239-249. | 3.4 | 8 |
| 38 | Indian plant biology enters the biotechnology era. Trends in Plant Science, 2002, 7, 92-94. | 8.8 | 8 |
| 39 | The INI South Asian Regional Nitrogen Centre: Capacity Building for Regional Nitrogen Assessment and Management. , 2020, , 467-479. | | 8 |
| 40 | Policies to combat nitrogen pollution in South Asia: gaps and opportunities. Environmental Research Letters, 2022, 17, 025007. | 5.2 | 8 |
| 41 | Molecular characterization of nitrate uptake and assimilatory pathway in <i>Arthrospira platensis</i> reveals nitrate induction and differential regulation. Archives of Microbiology, 2014, 196, 385-394. | 2.2 | 7 |
| 42 | Method for Preparation of Nutrient-depleted Soil for Determination of Plant Nutrient Requirements. Communications in Soil Science and Plant Analysis, 2019, 50, 1878-1886. | 1.4 | 7 |
| 43 | Protein Phosphatases in N Response and NUE in Crops. , 2020, , 233-244. | | 7 |
| 44 | Issues and Policies for Reactive Nitrogen Management in the Indian Region. , 2017, , 491-513. | | 7 |
| 45 | Nitrogen and Stress. , 2015, , 323-339. | | 6 |
| 46 | Nitrogen and the food system. One Earth, 2021, 4, 3-7. | 6.8 | 6 |
| 47 | Crop nitrogen use efficiency for sustainable food security and climate change mitigation. , 2022, , 47-72. | | 6 |
| 48 | Editorial: Nitrogen Use Efficiency and Sustainable Nitrogen Management in Crop Plants. Frontiers in Plant Science, 2022, 13, 862091. | 3.6 | 6 |
| 49 | Genomewide bioinformatic analysis negates any specific role for Dof, GATA and Ag/cTCA motifs in nitrate responsive gene expression in Arabidopsis. Physiology and Molecular Biology of Plants, 2009, 15, 145-150. | 3.1 | 5 |
| 50 | Comparative Transcriptomic Analyses of Nitrate-Response in Rice Genotypes With Contrasting Nitrogen Use Efficiency Reveals Common and Genotype-Specific Processes, Molecular Targets and Nitrogen Use Efficiency-Candidates. Frontiers in Plant Science, 0, 13, . | 3.6 | 5 |
| 51 | Nitrate assimilatory enzymes of <i>Spirulina (Arthrospira) platensis</i> are more thermotolerant than those of rice. Physiology and Molecular Biology of Plants, 2009, 15, 277-280. | 3.1 | 4 |
| 52 | Nurturing growth with excellence: PMBP goes monthly in its Silver Jubilee year!. Physiology and Molecular Biology of Plants, 2020, 26, 1-2. | 3.1 | 3 |
| 53 | Concerns around the human papilloma virus (HPV) vaccine. Indian Journal of Medical Ethics, 2010, 7, 38-41. | 0.4 | 3 |
| 54 | Long-term trends of direct nitrous oxide emission from fuel combustion in South Asia. Environmental Research Letters, 2022, 17, 045028. | 5.2 | 3 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 55 | Focus on reactive nitrogen and the UN sustainable development goals. Environmental Research Letters, 2022, 17, 050401. | 5.2 | 3 |
| 56 | A universal power law and proportionate change process characterize the evolution of metabolic networks. European Physical Journal B, 2007, 57, 75-80. | 1.5 | 2 |
| 57 | Just Enough Nitrogen: Summary and Synthesis of Outcomes. , 2020, , 1-25. | | 2 |
| 58 | Global Challenges for Nitrogen Science-Policy Interactions: Towards the International Nitrogen Management System (INMS) and Improved Coordination Between Multi-lateral Environmental Agreements. , 2020, , 517-560. | | 2 |
| 59 | The Kampala Statement-for-Action on Reactive Nitrogen in Africa and Globally. , 2020, , 583-593. | | 2 |
| 60 | Nutrient Perception and Signaling in Plants. , 2019, , 59-77. | | 1 |