

Publications

1. **Gopal, D.**, Prasad, T.N.V.K.V., Pradeep, T., Bhargava Rami Reddy, C., Nirmal Kumar, A.R., Naseeruddin, R. and Girish, B.P., 2025. Synergistic impact of foliar application of nanoparticulate silica on the sustainable productivity of low land rice. *Journal of Plant Nutrition*. 48(2): 222-236. (IF:2.10)
2. **Gopal, D.**, Prasad, T.N.V.K.V., Pradeep, T., Reddy, C.B.R., NirmalKumar, A.R., Naseeruddin, R. and Naidu, M.V.S., 2024. Effects of nanoparticulate delivery of silicon on the growth and yield of rice (*Oryza sativa* L.). *Silicon*, 16(1):253-263. (IF:2.98)
3. Nagaraju, K., Prasad, T.N.V.K.V., Chari, M.S., Ramu, Y.R., Murthy, B.R., Naidu, M.V.S., Leelavathy, G.P., Mohan, P.R., Damu, A.G. and **Gopal, D.**, 2024. Effects of Soil Application of Nanobiochar-Based Nitrogen and Potassium Fertilizers on the Growth and Yield of Groundnut (*Arachis Hypogaea* L.). *Journal of Soil Science and Plant Nutrition*. 24(3): 5759-5771. (IF:3.90)
4. **Gopal, D.**, Prasad, T.N.V.K.V., Pradeep, T., Reddy, C.B.R., NirmalKumar, A.R., Naseeruddin, R. and Naidu, M.V.S., 2023. Enhancing micronutrients content in rice through nanoparticulate delivery of silica. *The Pharma Innovation*. 12(6): 312-316
5. **Gopal, D.** and Sarangthem, I. (2018). Effect of zinc on growth and yield of tomato (*Lycopersicon esculentum* cv. Pusa ruby). *The Pharma Innovation*. 10:73616-73620.
6. **Gopal, D.** and Sarangtham, I. (2021). Effect of boron on the yield of tomato (*Solanum lycopersicum*) in acid soil. *The Pharma Innovation*. 10(5): 1096- 1098.

Review Article

1. Nutrient Strategies for Pest Resilience in Plants: A Review

Books

1. Modern Approaches in Soil Science (4th Author). Volume-5

Book Chapters

1. B. Jayasree, **D. Gopal**, Charan Kumar GR, P. Kejia and M.V.S. Naidu. 2023. Characterization, Classification and Evaluation of Red Soils of Andhra Pradesh. *Current Research in Soil Science*. Volume: 15
2. G. Naveen Kumar, **D. Gopal**. K. Vineela and A Gopal Reddy. 2023. Sustainable

Crop Production and Management. *Advances in Agronomy*. Volume: 20

3. B. Jayasree., D. Gopal., P. Kejiya and B. Maheswara Reddy. 2024. Rhizosphere Microbiome Engineering: Strategies for Improving Soil Fertility and Crop Resilience. *Biocontrol Strategies: An Eco-Friendly Method for Biotic Stress Management*. ISBN : 978-93-7108-357
4. D. Gopal and K. Vineela. 2025. Sustainable Farming Methods And Tools for Efficient Rice Cultivation. *Precision and Digital Agriculture*. Edition 1. ISBN: 978-93-48620-67-5. DOI: <https://doi.org/10.5281/zenodo.17864737>.
5. D. Gopal, K. Vineela and B. Jayasree. 2026. Sustainable Phosphorus Delivery Using Nano-Biochar for Improved Soil-Plant Systems. *Scripown publications*. Volume: 22
6. K. Vineela, D. Gopal, B. Jayasree and M. Lakshmanna. 2026. Chronological Development of GIS and Remote Sensing in Crop Production with Scale Dimensions. *Current Research in Soil Science*. Volume: 20.

Popular Articles

1. B. Jayasree and **D. Gopal**. 2021. Role of Nanoscale nutrients in Crop production. *AGRIBLOSSOM*. Volume-2 Issue-6
2. B. Jayasree, Charan Kumar G.R and **D. Gopal**. 2022. Land Evaluation Techniques for Sustainable Land Use Planning. *AGRIBLOSSOM*. Volume-3 Issue-4
3. G. Naveen Kumar , **D. Gopal**. 2023. IFFCO Nano Urea: Transforming Agriculture for a More Sustainable Future. *New Era Agriculture Magazine*. Volume-2, Issue-2.
4. D. Gopal, K. Vineela, B. Goutham Kishore and P. Avinash. Hidden Engines of Growth: Microbes Fueling Plant Nutrition. Volume 7, Issue 11
5. D. Gopal, B. Jayasree, K. Vineela. Fungal highways beneath our feet: transforming crop resilience naturally. *Popular Agriculture*. 2(1): 14-17.

Conferences & workshops attended

1. Influence of Zinc and Boron on Quality of Tomato (*Solanum esculentum* L.) in Acid Soils (7&8th March 2019)
2. Identification of critical limit in soil and plant for determining the response of groundnut to boron application (4 & 5th of Feb. 2021)
3. Role of Nano Fertilizers of Climate Resilient Agriculture (6 & 7th May 2022)

4. Impact of Silicon Fertilization on Field Crops Yield Quantity and Quality (5 & 6th June 2023)

Workshops

1. Rice Residue Burning in Manipur Issue and Strategies for Sustainable Management (31-01-2018)

National Webinars

1. Sustainable Strategies for Enhancing Productivity & Profitability in Dryland Agriculture (29-06-2021)
2. Environmental Ethics & Ecological Restoration: Issues and Strategies (05-06-2021)
3. Microbial Technologies for Sustainable Agriculture and Climate Change Mitigation (07-07-2021)
4. Scope of Cluster Analysis in Agriculture and Allied Sector (09-07-2021)
5. Arts of Writing Research papers (04-07-2021)