

Publications (Research articles, review articles, book chapters)

1. **Dey, A.**, Jangir, N., Verma, D., Shekhawat, R. S., Yadav, P., & Sadhukhan, A. (2025). Foliar application of nano Urea enhances vegetative growth of *Arabidopsis thaliana* over equimolar bulk urea through higher induction of biosynthesis genes but suppression of nitrogen uptake and senescence genes. *Plant Growth Regulation*, 105(3), 833–859. <https://doi.org/10.1007/s10725-025-01314-6> [Research article - IF: 3.9; First author]
2. Jangir, N., Marik, D., Verma, D., **Dey, A.***, Shekhawat, R. S., Patel, D., Yadav, P., Sankhala, K., & Sadhukhan, A. (2024). Nano Urea Outperforms Equimolar Bulk Urea in the Hydroponic Growth of *Arabidopsis thaliana* by Inducing Higher Levels of Nitrogen Assimilation and Chlorophyll Biosynthesis Genes. In *Journal of Plant Growth Regulation*. Springer Science and Business Media LLC. <https://doi.org/10.1007/s00344-024-11581-8> [Research article - IF: 4.4; First author; *Equal contribution]
3. Dhiman, V., Marik, D., Amrita, Shekhawat, R. S., Swain, A. K., **Dey, A.**, Yadav, P., Pal, A., Dey, S., & Sadhukhan, A. (2024). AP2/ERF Transcription Factor Orthologs of the Desert Tree *Prosopis cineraria* Show Higher Copy Number and DNA-Binding Affinity than Drought-Sensitive Species. In *Journal of Plant Growth Regulation*. Springer Science and Business Media LLC. <https://doi.org/10.1007/s00344-024-11532-3> [Research article - IF: 4.4; Co-author]
4. Uchoi, J., Venkatesan, K., Thakuria, D., Singh, P. K., Soyimchiten, Nikumbhe, P. H., Harish, G. D., Hajong, S., Langpoklakpam, B., Debnath, A., Kumar, A., Murasing, K. K., Markhap, O., Mawnai, G. L., & **Dey, A.** (2025). Citrus genetic resources in Meghalaya, a home of national Citrus gene sanctuary: Collection, morphological characterization and its implications on conservation. *Plant Genetic Resources: Characterization and Utilization*, 1–11. <https://doi.org/10.1017/s147926212510018x> [Research article; Co-author]
5. **Dey, A.**, & Sadhukhan, A. (2024). Molecular mechanisms of plant productivity enhancement by nano fertilizers for sustainable agriculture. In *Plant Molecular Biology* (Vol. 114, Issue 6). Springer Science and Business Media LLC. <https://doi.org/10.1007/s11103-024-01527-9> [Review article - IF: 3.9; First author]
6. Dwaipayan, S., Zoofishan, K., Aqsa, M., Moumita, D., Swastika, B., Arun Kumar, M., Sharmistha, G., Nasrin, P., Subhamita, S. N., Shahana, C., Supti, D., **Arpan, D.**, & Ranjan, S. (2025). Advances in analytical techniques for phytochemical identification and quality control: A comprehensive review. *Plant Science Today*. <https://doi.org/10.14719/pst.9998> [Review article - IF: 0.8; Co-author]
7. Das, S., Sinha, D., Chatterjee, S., Ganguly, A., **Dey, A.**, Majgaonkar, A., Kazi, Z., Maurya, A. K., Sohail, M., & Bhat, N. (2025). The Role of Marine Bacteria-Derived Bioactive Compounds in COVID-19 Management. In *Anti-Coronavirus Marine Bioactive Compounds* (pp. 185–224). Apple Academic Press. <https://doi.org/10.1201/9781003638018-7> [Book Chapter; Co-author]
8. **Dey, A.**, Srivastava, P. K., Parihar, P., & Upadhyay, R. (2025). *Oxidative Responses, Antioxidative System, and Redox Regulation During Water Stress Water Stress in Crop Plants and Its Management*. CRC Press. 2019 - 2021 2016 - 2019 <https://doi.org/10.1201/9781003433989> [Book Chapter; Co-author]
9. *Exploration and Germplasm Collection of Citrus Species in Meghalaya: Future Conservation and Utilization*. [Conference paper] - International Conference on Agriculture in Hilly and Mountain Landscape: An Interdisciplinary Perspective.