

Department-wise Journal Publications
School of Agriculture & Allied Sciences, The Neotia University

Department of Horticulture & Food Science

Publications in the year 2024

1. Halder, S., Huirem, B., Karmakar, S., Hayat, A., & Bhattacharya, U. (2024). Value Addition of Fruits: An Effective Process to Combat Post-harvest Losses. *Journal of Experimental Agriculture International*, 46(5), 339-345.

Publications in the year 2023

1. Chowdhury, R. S., Kumar, V., Bhattacharya, S., Mallick, P., Ghosh, A., Bhattacharjee, S., & Kothari, S. K. (2023). Effect of Gibberellic Acid (GA3) on Vegetative and Reproductive Growth and Yield Characters of Cucumber (*Cucumis sativus*) under Costal Region of West Bengal, India. *International Journal of Plant & Soil Science*, 35(21), 90-96.
2. Saha, T., Basfore, S., Choudhury, R. S., Sikder, S., & Debnath, M. K. (2023). Effect of date of planting and spacing on growth and yield of sprouting broccoli (*B. Oleraceae* (L.) var. *Italica plenck*) cv. Green magic. *International Journal of Bio-resource and Stress Management*, 14(7), 1067-1073.
3. Dey, S., Datta, S., Mandi, G., Mandal, C. and Bhattacharya, S., (2023). Impact of pre-harvest foliar application of Jasmonic acid and soil cover of different organic mulching on physico-chemical attributes and post-harvest qualities of mango cv. Himsagar. *The Pharma Innovation Journal*, 12(8): 473-477.

Publications in the year 2020

1. Saha, T., Das, A., Ghosh, B., Kundu, S. and Bhattacharya, S. (2020). Effect of micronutrients on fruit set, yield and quality of sweet orange (*Citrus sinensis* Osbeck) cv. Mosambi in the Gangetic alluvial region of West Bengal. *Journal of Pharmacognosy and Phytochemistry*, 9(3): 1793-1795.

Department of Agronomy & Agroforestry

Publications in the year 2023

1. Bhattacharya, U., Naskar, M. K., Venugopalan, V. K., Sarkar, S., Bandopadhyay, P., Maitra, S., ... & Hossain, A. (2023). Implications of minimum tillage and integrated nutrient management on yield and soil health of rice-lentil cropping system—being a resource conservation technology. *Frontiers in Sustainable Food Systems*, 7, 1225986.
2. Mukherjee, B., Goswami, S., Pal, P., Mandal, T. K., Bhattacharya, U., Naskar, M.K. and Dutta, S. (2023). Improving Crop Nutrition through Ecofriendly Biofertilizers: Concept, Types and Benefits in Agriculture. *International Journal of Bioresource Science*, 10(01): 107-116.

- Mandal, T. K., Das, P., Mondal, M., and Khoso, I. (2023). Intervention of Soil Salinity in Agriculture of Indian Sundarbans: A Review. *International Journal of Bioresource Science*. 10(01): 117-127.
- Mandal, T.K., Das, P., Mukherjee, B., & Krishna, T.G. (2023). Effect of Sulphur Fertilization and Dates of Sowing on the Growth, Yield Attributes and Yield of Sunflower under Coastal Saline Soil of West Bengal. *10(2):159-163*.
- Pal, P., Mukherjee, B. and Goswami, S. (2023). Growth analysis and partitioning study of different promising lentil varieties under coastal saline zone of West Bengal. *International Journal of Chemical Studies*. 11 (2): 38-43.

Publications in the year 2022

- Mandal, T. K., Das, P., & Mondal, M. (2022). Effect of Irrigation and Mulching on Growth, Yield Attributes and Yield of Safflower Under Safflower-Chickpea Intercropping System in Indian Sub-continent. *IJBS*, 9(01), 59-63.

Publications in the year 2021

- Mondal, M., Biswas, B., Garai, S., Adhikary, S., Bandyopadhyay, P. K., Sarkar, S., ... & Hossain, A. (2021). Raising climate-resilient embolden rice (*Oryza sativa* L.) seedlings during the cool season through various types of nursery bed management. *Sustainability*, 13(22), 12910.
- Das, P., Pramanick, B., Goswami, S. B., Maitra, S., Ibrahim, S. M., Laing, A. M., & Hossain, A. (2021). Innovative land arrangement in combination with irrigation methods improves the crop and water productivity of rice (*Oryza sativa* L.) grown with okra (*Abelmoschus esculentus* L.) under raised and sunken bed systems. *Agronomy*, 11(10), 2087.

Publications in the year 2018

- Mandal, T. K., Puste, A. M., & Maitra, S. (2018). Influence of irrigation and mulching on yield attributes, yield and quality of lentil (*Lens esculentum* L.) grown as intercrop under limited water conditions. *International Journal of Bioresource Science*, 5(1), 61-64.

Department of Agricultural Engineering & Farm Management

Publications in the year 2022

- Koley, S., Sonkar, S., Bagchi, S. K., Patnaik, R., & Mallick, N. (2022). Development of a low-cost cultivation medium for simultaneous production of biodiesel and bio-crude from the chlorophycean microalga *Tetrademus obliquus*: A renewable energy prospective. *Journal of Cleaner Production*, 364, 132658.

Department of Soil Science and Agricultural Chemistry

Publications in the year 2024

- Manna, T., Nanda, M.N, Sarkar,S., Mukherjee, A., Ray, M., Ahmed,L., Alkeridis, Sayed,S., Gaber, A., Hossain, A. (2024). Infrared thermometry-based stress indices as

indicators of yield performance and seasonal evapotranspiration in potato plants grown under different moisture and potassium regimes. *Scientia Horticulturae*,330:113086.

2. Mullick, S., Bera, M., Khoso, I., & Kothari, S.K. (2024). Nutrient Status of Coastal Soils-24 Parganas (South), West Bengal, India. *International Journal of Plant & Soil Science*, 36 (4): 17-23

Publications in the year 2023

1. Manna, T. (2023). Rainfall probability and trend analysis for strategic crop planning with their impact on the existing cropping system in the new alluvial plains of West Bengal. *J. Crop and Weed*, 19 (1): 220-228.

Department of Agricultural Economics & Statistics

Publications in the year 2023

1. Pal, S., Mallick, P., Chakraborty, A. J., Rahaman, S. M., & Kumar, A. (2023). A Study of Agriculture and Groundwater Utilization in West Bengal. *Scientist*, 3(3): 550-562.

Publications in the year 2022

1. Mondal, M., Chakraborty, J., & Bera, B. (2022). An assessment of marketable and marketed surplus of major foodgrains of Nadia district of West Bengal. *Journal of Crop and Weed*, 18(2), 272-279.
2. Pal, S., Chakraborty, A. J., Rahaman, S. M., & Nandi, A. K. (2022). Decadal Change in Ground Water Utilization Pattern in West Bengal, India. *Asian Journal of Agricultural Extension, Economics & Sociology*, 40(12), 302-310.

Department of Genetics & Plant Breeding

Publications in the year 2023

1. Kothari, S. K., Saha, S., & Mallick, P. (2023). Evaluation of foliar application of nano-fertilizers (nitrogen, zinc, copper) on growth and yield of rice (*Oryza sativa* L.) in kharif season. *The Pharma Innovation Journal*, 12(6): 247-250.
2. Saha, S., Banerjee, A., Manna, T., Barik, S., & Kothari, S. K. (2023). Salinity influences on different growth stages of sesame (*Sesamum indicum* L.) varieties. *The Pharma Innovation Journal*, 12(2): 2131-2132.
3. Mondal, B. (2023). Extraction of leaf essential oil from 'Khasia' landrace of Piper betle L.: An innovative business input to conventional agroforestry system. *Forestry Ideas*. 29 (2) 66: 199-206.

Publications in the year 2022

1. Mondal, B. (2022). Extraction of Betel Leaf Essential Oil for the Sustainable Solution to Betel Business in West Bengal for Effective Economic Gain: A Review. *Mysore Journal of Agricultural Sciences*, 56(2).

2. Mondal, B., Mitra, G. (2022). Gene Mining for Management of Psychological and Neurodevelopmental Disorders-A Review. *Asian Journal of Biological and Life Sciences*; 11(1). doi. 10.5530/ajbls2020.9.
3. Mondal, B. (2022). Cost Effective Essential Oil Extraction from Surplus Betel (Piper betle L.) Leaves. *Asian Journal of Biological and Life Sciences*, 11(1), 101.

Publications in the year 2021

1. Bidisha, M., & Gouranga, M. (2021). Epigenomics: the interplay of genetic and epigenetic factors behind psychological disorders. *Research Journal of Biotechnology Vol, 16, 2*.
2. Mondal, B. (2021). Assessment of Genetic stability of Ex-vitro lime population maintained under nursery condition in West Bengal. *Research Journal of Agricultural Sciences An International Journal*, 12(05): 1498-1502
3. Mondal, B. (2021). Conversion of metabolomic data to genomic marker for genetic characterization of Piper betel chemotypes- A review. *Agricultural Reviews*. doi. 10.18805/ag. R-2118

Publications in the year 2020

1. Mondal, B. (2020). Application of Molecular Marker in effective management of Mandarin Orange Orchards of West Bengal. *Research Journal of Agricultural Sciences*, 12(1): 126-130.
2. Mondal, B., Saha, R., & Samanta, A. (2020). Improvement of Local Economy through the Maintenance of the Rural House Hold Bank (Piper Betel Baroj) of South Bengal. *Indian Horticulture Journal*, 10(1and2), 22-24.
3. Mondal, B., Saha, R., & Samanta, A. (2020). Post-Amphan management and rejuvenation of the ravaged betel (Piper betle) baroj in South Bengal. *Farming and Management*, 5(2), 91-100.

Agriculture Extension & Communication

Publications in the year 2023

1. Biswas, A., Duary, S., Islam, A., & Bhattacharjee, S. (2023). Water Footprint and Productivity of Lettuce with Non-conventional Water Resources. *Biological Forum – An International Journal*, 15(4): 01-04.

Publications in the year 2022

1. Bhattacharya, S., Saha, T., Das, P., Sarkar, S., Koley, S., Bhattacharjee, S., ... & Chakraborty, A. J. (2022). Aromatic plants: Role and uses in human prosperity and sustainability. *The Pharma Innovation Journal*, SP-11(5): 341-358.

Publications in the year 2021

1. Bhattacharjee, S., Das, J. K., Roy, S., & Chakrabarti, S. (2021). Development of a regional climate change perception index based on traditional knowledge base of small-marginal farmers. *Indian Journal of Traditional Knowledge*, 21(1): 198-207

Publications in the year 2019

1. Das, J. K., Lairenlakpam, M., Bhattacharjee, S., Saha, M., & Dutta, J. (2019). Assessment of Mid-day Meal (MDM) programme in Coochbehar District of West Bengal. *Indian Journal of Extension Education*, 55(1):153-156.
2. Das, J. K., Bhattacharjee, S., Datta, J., Mazumder, G., & Laskar, T. (2019). Influence of Socio-economic Factors on Empowerment of Farm Women: An in Depth Analysis. *International Journal of Current Microbiology & Applied Sciences*, 8(7), 967-977.

Plant Pathology

Publications in the year 2021

1. Sarkar, S. & Dasgupta, B. (2021). Present scenario of research on diseases of medicinal plants with special emphasis on leaf spot disease of Ashwagandha [*Withania somnifera* (L.) Dunal] caused by *Colletotrichum gloeosporioides*. *Journal of Mycopathological Research*, 59 (2): 103-115.

Department-wise Book Chapter Publications

School of Agriculture & Allied Sciences, The Neotia University

Publications in the year 2024

Department of Agronomy and Agroforestry

1. Mondal, T. K., Das, P., Bhattacharjee, S. (2024). Sustainable Agronomic and Soil Management Practices for Mitigation of Soil Salinity in the Coastal Region. In book: *Advances in Modern Agricultural Practices* ISBN: 9788119006953 New Delhi Publishers
2. Dutta, S., Mukherjee, B. and Sawarkar, A. (2024). Enhanced Agricultural Productivity Using Hydroponics Technique: A Smart Farming System. In book: *Irrigation-New Perspectives*. Intech Open Publishers. DOI: <https://dx.doi.org/10.5772/intechopen.112780>. ISBN : 978-1-83769-057-1.
3. Maitra, S., Bhattachaya, U., Pramanick, B., Sagar, L., Gaikwad, D., Pattanayak, S., Sairam, M., Sahoo, U., Jatav, H.S., Gitari, H.I., Shankar, T., Kandileri, A.M., Chiyaneh, E.R. and Hossain, A. (2024). Agroforestry: A resource conserving technology for efficient utilization of agricultural inputs, leads to Food and Environmental Security. In Book: 'Agroforestry to combat Global challenges'. Springer Publication. DOI: <https://doi.org/10.1007/978-981-99-7282-1>. ISBN: 978-981-99-7281-4.
4. Das, P., Goswami, S., Mandal, T.K. and Maitra, S. (2024). Impact of Abiotic Stress on Crops and Management Strategies. In Book: 'Advances in Modern Agricultural Practices'. New Delhi Publishers. ISBN: 978-811-90-0695-3.
5. Maitra, S., Shankar, T.,, Mandal, T.K. and Sarkar, S. (2024). Climate-Smart Millets Production in Future for Food and Nutritional Security. In Book: 'Adapting to Climate Change in Agriculture-Theories and Practices'. Springer Publication. ISBN: 978-3-031-28141-9.

Publications in the year 2023

Department of Agricultural Extension

1. Bhattacharjee, S., Das, J. K., & Kothari, S. K. (2023). DIGITAL AGRICULTURE FUTURE SCOPE FOR SUSTAINABLE DEVELOPMENT. In book: A Compilation of ISTD 6th Eastern Regional Conference Papers - Leveraging Sustainability through Technology for Agile Organization. Learnet Publishing house. ISBN: 978-81-957591-5-6.

Publications in the year 2023

Department of Genetics & Plant Breeding

1. Mondal, B. (2023). Integrating Omic Tools to Design Nutraceutically Rich Citrus. In book: Kole, C. (eds) Compendium of Crop Genome Designing for Nutraceuticals. Springer, Singapore. https://doi.org/10.1007/978-981-19-3627-2_35-1

Publications in the year 2022

Department of Genetics & Plant Breeding

1. Mondal, B. (2022). Development of Ionome (Salt-Omic) for the Varietal Improvement and Food Security of the Coastal Region of India. In book: *Transforming Coastal Zone for Sustainable Food and Income Security: Proceedings of the International Symposium of ISCAR on Coastal Agriculture, March 16–19, 2021* (pp. 57-71). Cham: Springer International Publishing.
2. Saha, S., Chattopadhyay, R., & Kothari, S. K. (2022). Advances in Breeding Strategies: Sesame (*Sesamum indicum* L.).

Department of Agricultural Economics & Statistics

1. Pal, S. (2022). Determining the Role of Rural Women in Decision Making Related to Farm Activities in Burdwan, West Bengal, India. In Book: Current Aspects in Business, Economics and Finance, 5 (pp. 1-14).

Department of Agronomy and Agroforestry

1. Jena, J., Maitra, S., Hossain, A., Pramanick, B., Gitari, H. I., Praharaj, S., ... & Jatav, H. S. (2022). Role of legumes in cropping system for soil ecosystem improvement. In book: Ecosystem Services: Types, Management and Benefits. Nova Science Publishers, Inc, 415.

Publications in the year 2021

Department of Plant Pathology

1. Sarkar, S. & Bhattacharya, S. (2021). Chemistry & Biochemistry of Aroma & Flavour. In book: Aromatic Plants. ISBN: 978-1-53619-322-0.

Department of Horticulture and Food Science

1. Manjunath, K. V., Das, S., & Bhattacharya, S. (2021). Recent Advances in the hybrid production of *Solanum Melongena* L. In book: *Solanum Melongena*: Production, Cultivation & Nutrition, ISBN: 978-1-68507-311-4.

2. Sarkar, S., & Bhattacharya, S. (2021). Chemistry and Biochemistry of Aromatic and Flavor. Nova Science Publisher. In book: Aromatic Plants. ISBN: 978-1-53619-322-0. Page: 333-356.
3. Manjuath, K. V., Das, S., & Bhattacharya, S. (2021). Recent advances in the hybrid seed production in *Solanum melongena* L. In book: *Solanum melongena*: Production, Cultivation and Nutrition. Nova Science Publishers, Inc USA.

Department of Soil Science and Agricultural Chemistry

Publications in the year 2023

1. Manna, T., Saha, S and Chattopadhyay, R. (2023). Millets: Climate Smart Nutritional Reservoir for Next Generations. In book: Advances in Agriculture Sciences, 43:31-47.

Department-wise Book Publications

School of Agriculture & Allied Sciences

Publications in the year 2024

Department of Plant Pathology

1. Sarkar, S., Mondal, M. & Banerjee, A. (2024) Diseases of Field and Horticultural crops and their Management-II. Kalyani Publication. ISBN: 9789355408426
2. Banerjee, A., Mondal, M. & Sarkar, S. (2024). Keynotes of Diseases of Field and Horticultural crops and their Management-II. Kalyani Publication. ISBN:9789355407269.

Publications in the year 2023

Department of Plant Pathology

1. Mondal, M. & Sarkar, S. (2023). Diseases of Field and Horticultural crops and their Management-I, Kalyani Publication, ISBN: 9789355403339

Publications in the year 2022

1. Islam, S., Ali, M., Banerjee, A., Shah, M. H. & Rahman, S. K. S. (2022). *Moringaoleifera* under Stressful Conditions.