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| 1. B.sc (Agriculture)2.M. Sc (Entomology)3.Ph.D. (Entomology) | 2012-20162016-20182018-till date | Odisha University of agriculture and Technology, Bhubaneswar, OdishaIndian Agricultural Research Institute (IARI), New DelhiIndian Agricultural Research Institute (IARI), New Delhi | AgricultureEntomologyEntomology |

**Paper**

1. **Bhoi TK,** Samal I, Mahanta DK, Komal J, Jinger D, Sahoo MR, Achary GC, Nayak P, Sunani SK, Saini V, Raghuraman M. 2023. Understanding How Silicon Fertilization Impacts Chemical Ecology and Multitrophic Interactions Among Plants, Insects and Beneficial Arthropods. Silicon. (6):2529-49.
2. Mahanta DK, **Bhoi TK,** Komal J, Samal I, Mastinu A. (2024) Spatial, Spectral and Temporal Insights: Harnessing High-Resolution Satellite Remote Sensing and Artificial Intelligence for Early Monitoring of Wood Boring Pests in Forests. Plant Stress. 100381.
3. Singhal V, Jinger D, Rathore AC, Pal R, Samal I, **Bhoi TK,** Paramesh V, Fahad S. 2024. Covid 19, deforestation and green economy. Frontiers in Forests and Global Change.6:1305779.
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5. Komal J, Desai HR, Samal I, Mastinu A, Patel RD, Kumar PD, Majhi PK, Mahanta DK, **Bhoi TK.** (2023). Unveiling the Genetic Symphony: Harnessing CRISPR-Cas Genome Editing for Effective Insect Pest Management. Plants. 12(23):3961.
6. Mahanta DK, Komal J, Samal I, **Bhoi TK,** Dubey VK, Pradhan K, Nekkanti A, Gouda MR, Saini V, Negi N, Bhateja S. 2023. Nutritional aspects and dietary benefits of “Silkworms”: Current scenario and future outlook. Frontiers in Nutrition. 10:1121508.
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9. Samal I, **Bhoi TK,** Vyas V, Majhi PK, Mahanta DK, Komal J, Singh S, Kumar PV, Acharya LK. 2023. Resistance to fungicides in entomopathogenic fungi: Underlying mechanisms, consequences, and opportunities for progress. Tropical Plant Pathology. 1-3.
10. Samal I, **Bhoi TK,** Mahanta DK, Komal J. 2023. Establishing the Role of Silicon (Si) in Plant Resistance To Insects: A Bibliometric Approach. Silicon. 1-10.
11. Prabhulinga T, Chander S, Arya PS, **Bhoi TK,** Yele Y. 2022. Mechanism and modifications associated with mimicry and camouflage in butterfly. Journal of Entomological Research. 46(3):667-72.
12. Athulya R, Nandini J, **Bhoi TK,** Sundararaj R. 2023. Recent advances of nanotechnology in wood protection: a comprehensive review. Wood Material Science & Engineering. 1-20.
13. Choudhary CS, Behera B, Raza MB, Mrunalini K, **Bhoi TK,** Lal MK, Nongmaithem D, Pradhan S, Song B, Das TK. 2023. Mechanisms of allelopathic interactions for sustainable weed management. Rhizosphere. 100667.
14. Singh S. **Bhoi TK,** Vyas V, Sharma K, Singh I, Nirwan B. 2022. Variation in sturdiness quotient of Khejri seedlings. The Indian Forester. 148(5): 516-519
15. Singh S, **Bhoi TK,** Choudhary S, Vyas V, Sharma K. 2023. Pheno-morphological and Biochemical Characterization of Rhizobium sp. associated with Khejri Seedlings Isolated from different Geographical locations of Rajasthan. The Indian Forester. 249(7):729-737.
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17. Bhoi, T. K., Trivedi, N., Kumar, H., Tanwar, A. K., & Dhillon, M. K. (2020). Biochemical defense in maize against *Chilo partellus* (Swinhoe) through activation of enzymatic and nonenzymatic antioxidants. Indian Journal of Experimental Biology (IJEB), 59(01), 54-63.
18. Kumar, H., Dhillon, M. K., & **Bhoi, T. K.** (2023). Stress-induced defense in sorghum in response to attack by the spotted stem borer, *Chilo partellus* (Swinhoe). Phytoparasitica, 51(1), 49-61.
19. Samal, I., Dhillon, M. K., **Bhoi, T. K.,** & Singh, N. (2024). Biochemical basis *of Lipaphis erysimi* (Kalt.) growth and development in *Brassica juncea*. Phytoparasitica, 52(1), 1-20
20. Samal, I., Singh, N., **Bhoi, T. K.,** & Dhillon, M. K. (2022). Elucidating effect of different photosynthetic pigments on *Lipaphis erysimi* preference and population build‐up on diverse *Brassica juncea* genotypes. Annals of Applied Biology, 181(2), 201-214.

**Book chapter**

1. **Bhoi TK,** Samal I, Mahanta DK, Komal J, Majhi PK, Ankur. Exploring Melatonin’s Potential as an Alternative Strategy for Protecting Plants from Biotic Stresses. InMelatonin in Plants: A Pleiotropic Molecule for Abiotic Stresses and Pathogen Infection 2024 Jan 9 (pp. 223-242). Singapore: Springer Nature Singapore.
2. Darshan K, Harshitha KN, Shreedevasena S, Tailor A, **Bhoi TK,** Nigam S, Kulkarni N. Role of Melatonin in Management of Stress Tolerance of Forest Tree Species. InMelatonin in Plants: A Pleiotropic Molecule for Abiotic Stresses and Pathogen Infection 2024 Jan 9 (pp. 177-194). Singapore: Springer Nature Singapore.
3. Samal I, Mahanta DK, **Bhoi TK,** Komal J, Jatav HS, Jatav SS, Sathyanarayana E 2024. Approaches of Biochar in Ecosystem Management: Current Scenario and Future Perspectives. In Sustainable use of biochar. 2024 15 Feb. IntechOpen. International Publishing.
4. **Bhoi TK,** Samal I, Deepak Kumar Mahanta DK, Komal J, Khan MA, Jatav HS. 2024. Influence of Biochar on Soil Insect Dynamics and Infestation. In Sustainable use of biochar. 2024 15 Feb. IntechOpen. International Publishing.
5. Vyas V, **Bhoi TK,** Samal I, Singh S, Mahanta DK. Revitalizing Degraded Soils with Agroforestry Interventions: Opportunities, Challenges, and Future Direction. Agroforestry to Combat Global Challenges: Current Prospects and Future Challenges. 2024 Mar 1:529-49. Springer
6. Giri V, **Bhoi TK,** Samal I, Komal J, Majhi PK. Exploring the Agroforestry Systems for Ecosystem Services: A Synthesis of Current Knowledge and Future Research Directions. Agroforestry to Combat Global Challenges: Current Prospects and Future Challenges. 2024 Mar 1:503-28. Springer
7. Samal I. **Bhoi TK,** Mahanta DK, Komal J, Singh S. 2024. Biorational pest management: potentials, unintended consequences, and future concerns. Biorationals and Biopesticides. De Gruyter Publisher. https://doi.org/10.1515/9783111204819-003
8. **Bhoi TK,** Samal I, Saraswat A, Hombegowda HC, Samal SK,.Dash AK, Sharma S, Lawate P, Vyas V, Raza MD. 2024. Biochar as a soil amendment: effects on microbial communities and soil health Biochar Production for Green Economy. ELSEVIER. Proof submitted for publication (Accepted)
9. **Bhoi TK,** Samal I, Mahanta DK, Komal J, Majhi PK and Bhatnagar S. 2024. Insect-pest of forest trees and their management through advance biotechnological approaches. In book on biotechnological approaches for sustaining forest trees and its product. Accepted for publication in Springer
10. Bhatnagar S, Khan AU, **Bhoi TK,** Sankhla M, Suman RK. 2024. Understanding host plant resistance to insect pests and strategies to incorporate it in forest trees. In book on biotechnological approaches for sustaining forest trees and its product. Accepted for publication in Springer
11. **Bhoi TK,** Samal I, Singh S. (2023). Viral Diseases of Silkworm: Infection Process, Detection and Their Management. In: A Closer Look at Silkworms Editor: Pratheep Thangaraj ISBN: 979-8-88697-501-7 © 2023 Nova Science Publishers, Inc
12. Mahanta DK, Samal I, Komal J, **Bhoi TK,** Majhi PK, Ahmad MA. Understanding Anthropogenic Climate Change, Its Consequences on Insect Pests, and Techniques in Forecasting and Monitoring Pest Dynamics: A Contemporary Scenario. InClimate Change and Insect Biodiversity 2023 (pp. 44-67). CRC Press. Taylor & Francis
13. Singh S, **Bhoi TK,** Majhi PK, Vyas V, Singh I, Khan I, Rathi A. Emergent Tools and Techniques in Diagnosis of Soil-Borne Phytopathogens. InDetection, Diagnosis and Management of Soil-borne Phytopathogens 2023 Mar 29 (pp. 41-66). Singapore: Springer Nature Singapore.
14. Singh S, **Bhoi TK,** Vyas V. Interceding Microbial Biofertilizers in Agroforestry System for Enhancing Productivity. InPlant Growth Promoting Microorganisms of Arid Region 2023 Feb 26 (pp. 161-183). Singapore: Springer Nature Singapore.
15. Singh S, **Bhoi TK**, Khan I, Vyas V, Athulya R, Rathi A, Samal I. Climate Change Drivers and Soil Microbe-Plant Interactions. InClimate Change and Microbiome Dynamics: Carbon Cycle Feedbacks 2023 Jan 1 (pp. 157-176). Cham: Springer International Publishing.
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17. Majhi PK, Raza B, Behera PP, Singh SK, Shiv A, Mogali SC, **Bhoi TK,** Patra B, Behera B. Future-proofing plants against climate change: A path to ensure sustainable food systems. In Biodiversity, functional ecosystems and sustainable food production 2022 Oct 13 (pp. 73-116). Cham: Springer International Publishing.

**Article**

1. **Bhoi TK,** Singh S. 2021. Insects as pollinators and its conservation. Van Sangyan. 8(8): 01-04. (ISSN 2395 - 468X). Issue-August 2021.
2. Vyas V, **Bhoi TK,** Samal I. 2022. Wetland degradation and conservation measures. Van Sangyan. 9(9): 22-28. (ISSN 2395 - 468X). Issue-September 2022.
3. Samal I, Bhoi TK, 2022. Possible solution of plastic through insects. Van Sangyan. 9(7): 21-23. (ISSN 2395 - 468X). Issue-July 2022.
4. Samal I, **Bhoi TK,** Mahanta DK. 2022. Insect Hotels: A mode of conservation of beneficial insects. Van Sangyan. 9(4): 14-16. (ISSN 2395 - 468X). Issue-April 2022.
5. Samal I, **Bhoi T.K.** and Mahanta D.K. 2022. Need Smyrna fig, have Capri fig: A process of Caprification by Fig Wasp, Blastophaga psenes. Just Agriculture, 2 (6): 1-4.
6. Vyas V, Giri V, Yadav A, **Bhoi TK,** Singh S. 2023. Rhizobacteria: Unveiling the key players in nutrient cycling and soil fertility. Van Sangyan. 10(5): 46-48. (ISSN 2395 - 468X). Issue-May 2023
7. Vyas V, **Bhoi TK,** Singh S. 2023. Harnessing the Power of Rhizobium for bioremediation: A sustainable approach for Environmental clean-up. Van Sangyan. 10(6): 40-43. (ISSN 2395 - 468X). Issue-June 2023
8. Vyas V, Giri V, **Bhoi TK,** Singh S. 2023. Plant Growth Promoting Rhizobacteria (PGPR): A safter alternative to chemical fertilizers. Van Sangyan. 10(1): 01-05. (ISSN 2395 - 468X). Issue-January 2023.
9. **तन्मय कुमार भोई,** 2021, टिड्डी: वन वनस्पति के लिए अंतर्राष्ट्रीय खतरा, वन अनुसंधान ई-पत्रिका.
10. संगीता सिंह, **तन्मय कुमार भोई,** अतिराज राठी, इफ्रा खान, 2022, जैव उर्वरक और उसका महत्व,आफरी दर्पण
11. **तन्मय कुमार भोई,** संगीता सिंह, विपुला व्यास, इन्द्र सिंह, 2022, किसानों की आय दोहरीकरण में फसल संरक्षण की भूमिका,आफरी दर्पण
12. **तन्मय कुमार भोई,** विपुल व्यास, संगीता सिंह, 2022, रोग प्रबंधन में पूर्वानुमान प्रणाली, तरुचिन्तन.

**Conference lead paper**

1. Rana R, Samal I, **Bhoi TK.** 2022. Traditional methods of insect-pest management in India. International conference on Global Sustainable Agriculture & Allied sciences. (GRISAAS-2022) (Hybrid Mode)

**Award**

**Best poster Presentation Award:** Vyas V, Singh S, **Bhoi TK** and Sharma K. 2024. Evolution of growth performance and quality attributes of *Dalbergia sissoo* seedlings through Biofertilizers. National conference on Environmental challenges and conservation (NCECC2024), SBRM Government College, Nagur, Rajasthan. (22/01/2024)