

# Curriculum Vitae of Dr. Mohammad Shameem Al Mamun

BScAg (Hons.), MS in Entomology (BAU), PGD in Tea Plantation Management (India), Tea Technology (China), PhD (SUST), Postdoc (SAU)

Principal Scientific Officer (Entomology)  
Department of Pest Management  
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Former Project Director  
Northern Bangladesh Project  
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Former Principal Investigator  
USAID Funded BTRI IPM Project  
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## Career Objective

To develop my career as a good scientist as well as a successful researcher from where I will have the scope to utilize my potentiality & skills to do something innovative, and I will be able to enhance my knowledge.

## Field of Research

Bio-ecology of pests, Distributional pattern & seasonal abundance of pests, Crop loss assessment, Bioassay and resistance of pests, Integrated pest management (IPM) in tea, Bio-pesticides & Bio-control as IPM component, Screening of tea clones for pest susceptibility, Screening & standardizing of pesticides for tea, Pesticide residue in tea and Climate-smart tea.

## Special Qualification

Integrated pest management, Pesticide residue in tea, Project management & Climate smart tea

## Key Qualifications

- Planning, formulating, guiding and conducting entomological research for tea.
- Planning, formulating, guiding and conducting research & development projects for tea.
- Conducting laboratory and field trials related to tea pest management.
- Pesticide residue detection and analysis of made tea is another specialized field of work.
- Rendering all sorts of advisory services to the tea estates related to pest management in tea.
- Conducting training/workshop/seminar/symposium on tea pest management.
- Resource person of MTC, Project Development Unit, Bangladesh Tea Board.
- Maintaining regular divisional administrative works.

## Professional Experiences

Designation	Location	From	To	Period	Appointing Organization
Principal Scientific Officer (Entomology)	Bangladesh Tea Research Institute, Srimangal, Moulvibazar	16 August 2022	To date	3 years	Bangladesh Tea Board
Senior Scientific Officer (Entomology)	Bangladesh Tea Research Institute, Srimangal, Moulvibazar	20 March 2013	15 August 2022	9½ years	Bangladesh Tea Board
Project Director	Northern Bangladesh Project, Bangladesh Tea Board, Panchagarh	18 October 2017	30 June 2021	3½ year	Bangladesh Tea Board
Scientific Officer (Entomology)	Bangladesh Tea Research Institute, Srimangal, Moulvibazar	30 July 2007	19 March 2013	5½ years	Bangladesh Tea Board

## Academic Qualifications

Exam Title	Concentration/ Major	Board/University	Result	Pass. Year
Postdoc	Agronomy (Climate Smart Tea)	Sher-e-Bangla Agricultural University, Dhaka	Completed	2025
PhD	Food Engineering & Tea Technology (IPM in Tea)	Shahjalal University of Science & Technology, Sylhet	Awarded	2017
PGD	Tea Plantation Management	Kothari Agricultural Management Centre, Tamil Nadu, India	First Class Grade A+	2010
MS	Entomology	Bangladesh Agricultural University, Mymensingh	First Class CGPA 3.71	2005
BScAg (Hons)	Agriculture	Bangladesh Agricultural University, Mymensingh	Second Class Marks: 57.8%	2001
HSC	Science	Dhaka Board	Second Division Marks: 57.5%	1996
SSC	Science	Dhaka Board	First Division* Marks: 77.3%	1994

## Specializations

Field of Specialization	Description
Agriculture	Agronomy, Soil Science, Horticulture, Genetics & Plant Breeding, Chemistry, Biochemistry, Agricultural Chemistry, Entomology, Plant Pathology, Crop Botany, Agricultural Extension, Farm Mechanics, Animal Husbandry, Agricultural Economics, Statistics & Rural Sociology.
Entomology	Insect Taxonomy, Insect Physiology, Insect Ecology, Insect Pest Management, Pesticide Management, Entomological Technique, Insect Nutrition & Biochemistry, Insect Pathology, Insecticide Toxicology, Industrial Entomology & Stored Product Pests.
Tea Plantation Management	Introduction to Plantation Crops, Morphology & Taxonomy, Soil & Climate, Propagation & Nursery Management, Planting & Young Tea Management, Plucking & Pruning, Manuring & Liming, Plant Nutrition, Soil Conservation, Water Management, Pest & Disease Management, Plant Protection Equipment, Shade Management, Drought Management, Organic Tea Cultivation & Eco-Farming, Biotechnology in Tea, Biochemistry of Tea, Tea Machineries and Maintenance, Orthodox, CTC and Dual Manufacturing, Quality Assessment, Tea Tasting and Blending of Tea, Medicinal Properties of Tea, Tea Economics, Production Management and Productivity, Materials Management and Inventory Control, Marketing Management, Total Quality Management, ISO 9001:2000, ISO 3720 and Hazard Analysis & Critical Control Points [HACCP]

Pesticide Residue in Tea	Introduction to Instrumental Method of Analysis, Concept of Good Agricultural Practices (GAP), Good Manufacturing Practices (GMP), Good Laboratory Practices (GLP) and Analytical Quality Assurance, Introduction of Gas Chromatography (GC), High Performance Liquid Chromatography (HPLC) and the Use of Capillary Column, Injection Systems, Operating Parameters, Sample Preparation, Extraction, Clean up and Analysis of Sample, Calculation of MRL, Calibration of GC, MRL Issues, Safe Harvest Interval, Safety Measures.
Integrated Pest Management in Tea	Concept of IPM, Principles of IPM, Importance of IPM, Pest Forecasting and Pest Monitoring, Economic Threshold Level, Component of IPM, Ecological Control, Cultural Control, Physical Control, Mechanical Control, Biological Control, Microbial Control, Regulatory Control, Host Plant Resistance, Use of Botanicals, Use of Sex Pheromone, Use of Semiochemicals and Chemical Control, Spraying Calendar etc.
Project Development & Management	Preparation of Concept Note, Project Identification & Formulation, Feasibility Study Report, Preparation of Development Project Proposal, Appraisal and Approval of Project, Project Planning & Execution, Annual Budget Preparation, Project Life Cycle, Procurement Plan, Financial Management, Project Analysis, Project Management Information System, Project Completion Report (PCR) etc.
Climate Smart Tea	Impact climate change on tea production & pest outbreak, Drought in tea, Plant abiotic stress in tea, Adaptation strategies to mitigate climate change, Screening of drought-tolerant varieties, Water reservoir, Rainwater harvesting, Sprinkler irrigation system, Drip irrigation, Establishment of shade trees, Mulching, Use of cover crops, Soil improvement through trichovermicompost, Use of antitranspirants, etc.

### **Training Summary**

Training Title	Institute	Location	Year	Duration
MS Office	Graduate Training Institute	BAU Campus, Mymensingh	2004	14 days
Pesticide Residue Analysis	Bangladesh Tea Research Institute	BTRI, Sreemangal, Moulvibazar	2007	3 months
Tea Culture	Bangladesh Tea Research Institute	BTRI, Sreemangal, Moulvibazar	2008	7 days
Basic Training in Computer Application	New Horizons Computer Learning Centre	Coonoor, Tamil Nadu, India	2009	1 month
Agricultural Project Management	Kothari Agricultural Management Centre	Coonoor, Tamil Nadu, India	2010	2 months
Pesticide Residue Analysis in Tea	UPASI Tea Research Foundation	UPASI, Valparai, Tamil Nadu, India	2010	3 days
Research Methodology	Graduate Training Institute	BAU Campus, Mymensingh	2011	14 days

Biological Control of Agricultural Pests and Diseases	UNESCAP/BARC	Ascott Residence, Dhaka	2014	3 days
Research Planning and Proposal Writing	Krishi Gobeshona Foundation	BRAC-CDM, Gazipur	2014	6 days
Development of Web Portal	a2i Programme, Prime Minister Office	BCC, Agargaon, Dhaka	2014	5 days
Innovation in Public Services	Cabinet Division & Prime Minister Office	Admin Academy, Shahbag, Dhaka	2016	5 days
Project Development and Management	Bangladesh Agricultural Research Council	BARC, Farmgate, Dhaka	2016	5 days
Pollution-Free Tea Production Technology	Zhangzhou College of Science & Technology	Zhangzhou, Fujian, China	2016	56 days
Innovation Project Design	Cabinet Division & Prime Minister Office	Admin Academy, Shahbag, Dhaka	2016	3 days
Documentation and Dissemination of Innovation	Cabinet Division & Prime Minister Office	Krishibid Institution of Bangladesh	2016	2 days
Office Management	Bangladesh Tea Board	PDU, BTB, Sreemangal, Moulvibazar	2018	3 days
File Management and Letter Writing Technique in Government Office	Bangladesh Tea Board	PDU, BTB, Sreemangal, Moulvibazar	2019	2 days
Financial Management and Public Procurement	Bangladesh Tea Board	PDU, BTB, Sreemangal, Moulvibazar	2019	3 days
Applied Procurement Methods of Goods, Works and Services in Government Office	Bangladesh Tea Board	BTRI, BTB, Sreemangal, Moulvibazar	2019	3 days
D-Nothi Management	ICT Division	DC Office, Panchagarh	2021	3 days
Nature-based Solutions for Disaster and Climate Resilience (Online)	United Nations Environment Programme (UNEP) & edX	Massachusetts Institute of Technology and Harvard University, USA	2024	49 days
Spoken English	Talib's Institute (British Council Authorized)	Catholic Mission Road, Sreemangal, Moulvibazar	2024	90 days

## **Publications (123 nos.)**

### **Dissertation 05**

1. **M.S.A. Mamun.** 2001. Effect of method of sowing on biomass production of two green manure crops. A partial fulfilment of the requirements for the degree of BScAg (Hons), supervised by Dr. M.A. Mannan, Faculty of Agriculture, Patuakhali Science & Technology University, Bangladesh.
2. **M.S.A. Mamun.** 2005. Laboratory evaluation of some indigenous plant extracts against red flour beetle, *Tribolium castaneum* Herbst. A partial fulfilment of the requirements for the degree of MS in Entomology, supervised by Professor Dr. M. Shahjahan, Department of Entomology, Bangladesh Agricultural University, Mymensingh, Bangladesh.
3. **M.S.A. Mamun.** 2010. Integrated approaches to tea pest management in South India. A partial fulfilment of the requirements for the degree of PGD in Tea Plantation Management, supervised by Professor Dr. A.V.K. Iyengar, Director, Kothari Agricultural Management Centre, Coonoor, Nilgiris, Tamil Nadu, India.
4. **M.S.A. Mamun.** 2017. Development of integrated pest management strategy for red spider mite, *Oligonychus coffeae* Nietner (Acarina: Tetranychidae) of tea in Bangladesh. A Dissertation for the partial fulfilment of the requirements for the degree of PhD in Food Engineering and Tea Technology, supervised by Professor Dr. Md. Mozammel Hoque, Department of Food Engineering and Tea Technology, Shahjalal University of Science and Technology, Sylhet, Bangladesh.
5. **M.S.A. Mamun.** 2025. Screening of drought-tolerant varieties of tea [*Camellia sinensis* (L.) Kuntze]. A Postdoctoral research report for the partial fulfilment of the requirements for the degree of Postdoc in Agronomy, supervised by Professor Dr. Mirza Hasanuzzaman, Department of Agronomy, Sher-e-Bangla Agricultural University, Dhaka-1207, Bangladesh.

### **Journal Article 50 (National & International)**

1. **M.S.A. Mamun,** M. Shahjahan and M. Ahmad. 2008. Laboratory evaluation of some indigenous plant extracts as repellent against red flour beetle, *Tribolium castaneum* Herbst. *Bangladesh Journal of Entomology*, 18(1): 91-99.
2. **M.S.A. Mamun,** M. Shahjahan and M. Ahmad. 2008. Residual and grain protection effect of some indigenous plant extracts against red flour beetle, *Tribolium castaneum* Herbst. *Bangladesh Journal of Seed Science and Technology*, 12(2): 141-145.
3. **M.S.A. Mamun,** M. Shahjahan and M. Ahmad. 2009. Laboratory evaluation of some indigenous plant extracts as toxicant against red flour beetle, *Tribolium castaneum* Herbst. *Journal of Bangladesh Agricultural University*, 7(1): 1-5.  
<https://doi.org/10.3329/jbau.v7i1.4789> [ISI Indexed]
4. M. Ahmed, **M.S.A. Mamun** and A.R. Nath. 2009. Predation of tea aphids using ladybird beetle (*Hippodamia convergens* G.) as biocontrol agent. *Journal of Subtropical Agricultural Research and Development*, 7(4): 697-700.
5. M. Ahmed, S.K. Paul, **M.S.A. Mamun** and A.K.M.R. Hoque. 2009. Studies on the biology of ladybird beetle (*Hippodamia convergens* G.) as biocontrol agent of tea aphid. *International Journal of Sustainable Agricultural Technology*, 5(6): 58-61.
6. M. Ahmed, **M.S.A. Mamun,** A. Biswas and S.K. Paul. 2009. Determination of residue level of endosulfan in black tea in Bangladesh. *SAARC Journal of Agriculture*, 7(1): 56-62.

7. M. Ahmed, **M.S.A. Mamun** and S.K. Paul. 2009. Determination of pesticide residues in black tea at different plucking intervals after spraying. *Bangladesh Journal of Entomology*, 19(2): 91-99.
8. **M.S.A. Mamun** and A.V.K. Iyengar. 2010. Integrated approaches to tea pest management in South India. *International Journal of Sustainable Agricultural Technology*, 6(4): 27-33.
9. M. Ahmed and **M.S.A. Mamun**. 2010. Pesticide residue level in made tea in Bangladesh. *Bangladesh Journal of Zoology*, 38(2): 157-162. **[ISI Indexed]**
10. M.K. Uddin and **M.S.A. Mamun**. 2010. Life style and socio-economic status of tea labour in Bangladesh: Greater Sylhet perspective (Bangla). *Rural Development: Annual Journal of Bangladesh Academy of Rural Development*, 14: 185-205.
11. **M.S.A. Mamun**. 2011. Development of tea science and tea industry in Bangladesh and advances of plant extracts in tea pest management. *International Journal of Sustainable Agricultural Technology*, 7(5): 40-46.
12. **M.S.A. Mamun**. 2011. Development of integrated pest management strategy for tea mosquito bug (*Helopeltis theivora* Waterhouse) in Bangladesh. *Journal of Subtropical Agricultural Research and Development*, 9(1): 867-873.
13. M. Ahmed, S.K. Paul and **M.S.A. Mamun**. 2011. Field performance and economic analysis of some commonly used insecticides against tea mosquito bug (*Helopeltis theivora* Waterhouse). *Bangladesh Journal of Agricultural Research*, 36(3): 449-454. <https://doi.org/10.3329/bjar.v36i3.9273>
14. M. Ahmed, A.K.M.R. Hoque and **M.S.A. Mamun**. 2011. Efficacy of different sulphur formulations against red spider mite (*Oligonychus coffeae* Nietner) of tea in Bangladesh. *International Journal of Sustainable Agricultural Technology*, 7(9): 29-33.
15. **M.S.A. Mamun** and M. Ahmed. 2011. Prospect of indigenous plant extracts in tea pest management. *International Journal of Agricultural Research, Innovation and Technology*, 1(1-2): 16-23. <https://doi.org/10.3329/ijarit.v1i1-2.13924>
16. M.I. Hossain, M.J. Dutta, A.Q. Khan, **M.S.A. Mamun** and M.M. Rana. 2011. Yield performances and cup quality of some BTRI test clones. *International Journal of Agricultural Research, Innovation and Technology*, 1(1-2): 24-28. <https://doi.org/10.3329/ijarit.v1i1-2.13925>
17. **M.S.A. Mamun** and M. Shahjahan. 2011. Effect of some indigenous plant extracts on the germination of wheat seed. *Bangladesh Journal of Agricultural Research*, 36(4): 733-739. <https://doi.org/10.3329/bjar.v36i4.11763>
18. **M.S.A. Mamun**, M. Ahmed and S.K. Paul. 2011. Control of plant parasitic nematodes of tea soil using different species of green crops in Bangladesh. *Tea Journal of Bangladesh*, 40: 1-7.
19. M.I. Hossain, M.A. Aziz, S. Bonerjee, M. Ahmed and **M.S.A. Mamun**. 2011. Performance of SH/D/11/313, A/8/8, A/17/7 and A/22/39 as test clones on yield and quality of tea in Bangladesh. *Tea Journal of Bangladesh*, 40: 8-17.
20. **M.S.A. Mamun** and M. Ahmed. 2011. Integrated pest management in tea: prospects and future strategies in Bangladesh. *Journal of Plant Protection Sciences*, 3 (2): 1-13. **[India]**
21. M.I. Hossain, M. Ahmed, **M.S.A. Mamun** and A.K.M.G. Sarwar. 2012. Yield and quality performances of four test clones. *Journal of Bangladesh Agricultural University*, 10 (1): 33-38. <https://doi.org/10.3329/jbau.v10i1.12036> **[ISI Indexed]**
22. M. Ahmed, **M.S.A. Mamun**, M.M. Hoque and R.S. Chowdhury. 2012. Influence of weather parameters on red spider mite – a major pest of tea in Bangladesh. *SUST Journal of Science and Technology*, 19 (5): 47-53.

23. M. Ahmed and **M.S.A. Mamun**. 2012. Distributional pattern and seasonal abundance of major pests of tea in Bangladesh. *Tea Journal of Bangladesh*, 41: 1-10.
24. R.S. Chowdhury, M. Ahmed, **M.S.A. Mamun** and S.K. Paul. 2013. Relative efficacy of some insecticides for the control of tea mosquito bug, *Helopeltis theivora* (Waterhouse) in Bangladesh. *Journal of Plant Protection Sciences*, 5(1): 50-54. [India]
25. M. Ahmed and **M.S.A. Mamun**. 2013. Field evaluation of Bio-terminator (*Metarhizium anisopliae* Metchnikoff) against termites of tea in Bangladesh. *Assam Review and Tea News*, 102 (11): 10-14. [India]
26. **M.S.A. Mamun**, M. Ahmed, S.K. Paul and R.S. Chowdhury. 2013. Evaluation of some indigenous plant extracts against tea mosquito bug, *Helopeltis theivora* Waterhouse (Hemiptera: Miridae) infesting tea. *Tea Journal of Bangladesh*, 42: 10-20.
27. **M.S.A. Mamun**, M. Ahmed, I. Ahmad, M.S. Uddin and S.K. Paul. 2014. Comparative studies on the performances of some plant cakes and synthetic chemicals against nematodes in tea in Bangladesh. *World Journal of Agricultural Research*, 2(1): 1-4. <https://doi.org/10.12691/wjar-2-1-1> [USA]
28. **M.S.A. Mamun**, M.M. Hoque and M. Ahmed. 2014. *In vitro* and *in vivo* screening of some entomopathogens against red spider mite, *Oligonychus coffeae* Nietner (Acarina: Tetranychidae) in tea. *Tea Journal of Bangladesh*, 43: 34-44.
29. S.K. Paul, M. Ahmed and **M.S.A. Mamun**. 2014. Biopesticides: a potential tool for the management of plant parasitic nematodes in tea. *Tea Journal of Bangladesh*, 43: 24-33.
30. **M.S.A. Mamun**, M.M. Hoque, M. Ahmed, A. Sarkar and H. Kabir. 2015. Evaluation of some indigenous plant extracts against red spider mite, *Oligonychus coffeae* Nietner (Acarina: Tetranychidae) in tea. *Persian Journal of Acarology*, 4(4): 425-435. <https://doi.org/10.22073/pja.v4i4.13310> [Iran] [ISI indexed]
31. **M.S.A. Mamun**, M.M. Hoque, M. Ahmed. 2015. Evaluation of some plant origin commercial biopesticides against red spider mite, *Oligonychus coffeae* Nietner (Acarina: Tetranychidae) in tea. *Journal of Tea Science Research*, 5(8): 1-7. <https://doi.org/10.5376/jtsr.2015.05.0008> [Canada]
32. **M.S.A. Mamun**, M.M. Hoque and M. Ahmed. 2016. Effects of different pruning operations on the incidence of red spider mite of tea in Bangladesh. *Bangladesh Journal of Botany*, 45(1): 247-251. [ISI indexed]
33. **M.S.A. Mamun**, M.M. Hoque, M. Ahmed and M. Yasin. 2016. Physiological and biochemical changes in tea leaves and made tea due to red spider mite infestation. *Asian Journal of Plant Sciences*, 15: 16-25. <https://doi.org/10.3923/ajps.2016.16.25> [UAE] [ISI indexed]
34. A.K.M.R. Hoque, A.F.M. Aslam, M. Ahmed, **M.S.A. Mamun**, A.J. Howlader. 2016. Laboratory and field evaluation of an entomopathogenic fungus formulation-bioterminator (*Metarhizium anisopliae* Metchnikoff) against termite infesting tea. *Journal of Tea Science Research*, 6(9): 1-6. <https://doi.org/10.5376/jtsr.2016.06.0009> [Canada]
35. R.S. Chowdhury, I.S. Moly, M. Ahmed, **M.S.A. Mamun**, M.M. Hoque and M.F. Miah. 2016. Impact of the mosquito bug (*Helopeltis theivora*) infestation on the quality of tea (*Camellia sinensis*). *Bangladesh Journal of Zoology*, 44(2): 197-207. <https://doi.org/10.3329/bjz.v44i2.32759>
36. M.N. Noori, **M.S.A. Mamun** and M. Ali. 2016. Impact of climate change on tea production in Bangladesh: A case study on Bilashcherra Experimental Farm. *Tea Journal of Bangladesh*, 45: 24-34.



37. S.K. Paul, **M.S.A. Mamun**, M. Ahmed and M.J. Alam. 2016. New record on the occurrence of black looper caterpillar (*Hyposidra infixaria* Walker) in Bangladesh tea. *Tea Journal of Bangladesh*, 45: 36-42.
38. **M.S.A. Mamun**, M.M. Hoque, M. Ahmed, M.Y.H. Akandha and S.K. Paul. 2016. Evaluation of some potential miticides against red spider mite infesting tea in Bangladesh. *Tea Journal of Bangladesh*, 45: 52-64.
39. S.K. Paul, M. Ahmed, **M.S.A. Mamun** and M.J. Alam. 2017. Biodiversity of insect, mite and nematode species in tea ecosystem of Bangladesh. *Journal of Biodiversity Conservation and Bioresource Management*, 3(1): 31-44. <https://doi.org/10.3329/jbcbm.v3i1.36758>
40. A.K.M.R. Hoque, A.F.M. Aslam, A.J. Howlader and **M.S.A. Mamun**. 2017. Performance of some plant cakes against plant parasitic nematodes in tea. *Journal of Entomology and Zoology Studies*, 5(5): 1428-1432. <https://doi.org/10.22271/j.ento> [India] [ISI indexed]
41. S.K. Paul, **M.S.A. Mamun**, M.J. Alam, M. Ahmed and M. Ali. 2019. Identification of plant parasitic nematodes associated with tea soil in Bangladesh. *Tea Journal of Bangladesh*, 47(1&2): 27-38.
42. M. Yasin, R. Ara, **M.S.A. Mamun** and M.M. Hoque. 2020. Biochemical and quality parameters of BTRI released tea clones. *Bangladesh Journal of Botany*, 49(3): 445-450. <https://doi.org/10.3329/bjb.v49i3.49330> [ISI indexed]
43. M.S. Hossain, R. Uddin, P. Barua, M. Yasin, **M.S.A. Mamun** and M.M. Hoque. 2021. Effect of plant age, topography and processing system on the biochemical traits and quality of tea. *Bangladesh Journal of Botany*, 50(3): 633-639. <https://doi.org/10.3329/bjb.v50i3.55843> [ISI indexed]
44. A.K.M.R. Hoque, A.J. Howlader, **M.S.A. Mamun** and A.F.M. Aslam. 2021. Field evaluation and economic analysis of some potential chemicals for the control of termites in tea garden of Bangladesh. *Zoological and Entomological Letters*, 1(2): 4-8. [South Africa]
45. A.K.M.R. Hoque, **M.S.A. Mamun** and M.M. Akanda. 2023. Validation of different IPM techniques for sustainable tea production in Bangladesh. *Tea Journal of Bangladesh*, 49: 9-18. <https://doi.org/10.5281/zenodo.7974784>
46. **M.S.A. Mamun**, S.K. Paul, M.J. Alam, M. Ahmed and M.I. Hossain. 2023. Determination of residues of two organophosphates and their dissipation pattern by QuEChERS method. *Tea Journal of Bangladesh*, 49: 24-31. <https://doi.org/10.5281/zenodo.7974886>
47. S.K. Paul, **M.S.A. Mamun**, M. Ahmed, A.Q. Khan, M.M. Hoque and M.A. Rahman. 2023. Population dynamics of plant parasitic nematodes and their relation to soil properties in tea. *Tea Journal of Bangladesh*, 49: 44-51. <https://doi.org/10.5281/zenodo.7977698>
48. M.N. Noori, **M.S.A. Mamun** and A.K.M.R. Hoque. 2024. Analyzing the effectiveness of national environment policy to reduce pesticide pollution in the tea sector. *Tea Journal of Bangladesh*. 50: 18-36. <https://doi.org/10.5281/zenodo.11236829>
49. M. Yasin, M.S. Hossain, **M.S.A. Mamun**, M.A. Hossain, M.A. Patwary and M.M. Hoque. 2024. Quality assessment of organic versus conventional black tea production in different seasons: a case study in Bangladesh. *Measurement: Food* (Submitted).
50. **M.S.A. Mamun**, A.K.M.R. Hoque, K. Nahar, S. Alam and M. Hasanuzzaman. 2025. Adapting to thrive: climate change and the future of sustainable tea cultivation in Bangladesh. *Environmental Sustainability* (Submitted).



### Conference Paper 17

1. M. Ahmed, **M.S.A. Mamun**, M.L. Sarker and S.K. Paul. 2010. Determination of residues of dimethion and bifenthrin in black tea at different plucking intervals after spraying. Paper presented in the Workshop on Progress Review and Evaluation of Core Research and Technology Transfer 2009-2010 held on 22-23 June 2010 organized by Bangladesh Agricultural Research Council at BARC Campus, Farmgate, Dhaka. pp. 1-7.
2. M. Ahmed, **M.S.A. Mamun**, M.M. Hoque and R.S. Chowdhury. 2011. Influence of weather parameters on red spider mite – a major pest of tea in Bangladesh. Paper presented in the Conference on Engineering, Research Innovation and Education (CERIE) held on 11-13 January 2011 organized by Shahjalal University of Science and Technology at SUST, Sylhet. pp. 316-320.
3. M. Ahmed and **M.S.A. Mamun**. 2012. Organic pollutants in food: Current status of pesticide residues in Bangladesh tea. Paper presented in the Seminar on Organic Pollutants in Food, Agricultural Products and Environment held on 17-18 January 2012 organized by University of Dhaka and Uppsala University, Sweden at University of Dhaka. pp. 1-10.
4. M. Ahmed, M.I. Hossain and **M.S.A. Mamun**. 2012. Plant genetic resources of beverage crops with special emphasis on tea & coffee. Paper presented in the National Workshop on Plant Genetic Resources for Nutritional Food Security held on 18-19 May 2012 organized by Bangladesh Agricultural Research Council, at BARC campus, Farmgate, Dhaka. pp. 167-170.
5. **M.S.A. Mamun** and M. Ahmed. 2012. Integrated pest management in tea: Prospects and future strategies in Bangladesh. Paper presented in the International Symposium on Food Security Dilemma: Plant Health and Climate Change Issues held on 7-9 December 2012 organized by Association for Advancement in Plant Protection, Bidhan Chandra Krishi Viswavidyalaya at Farmers Training Centre, Lake Hall, Kalyani, West Bengal, India. pp. 1-14.
6. **M.S.A. Mamun**, M.M. Hoque and M. Ahmed. 2014. Effect of different pruning operations on the incidence of red spider mite, *Oligonychus coffeae* Nietner (Acarina: Tetranychidae) of tea in Bangladesh. Paper presented at the 13<sup>th</sup> Conference of Bangladesh Society of Agronomy on Agronomic Visions for Sustainable Food Security held on 20 September 2014 at Bangladesh Rice Research Institute, Gazipur.
7. M. Ahmed and **M.S.A. Mamun**. 2014. Tea mosquito bug, *Helopeltis theivora* Waterhouse (Hemiptera: Miridae): A Threat to Tea Cultivation in Bangladesh. Paper presented in the Seminar on Tea Pest and Mosquito Control in Tea Garden Areas of Greater Sylhet Region held on 25 October 2014 organized by Zoological Society of Bangladesh at Bangladesh Tea Research Institute, Srimangal, Moulvibazar. pp. 1-11.
8. **M.S.A. Mamun**, M. Ahmed and S.K. Paul. 2014. Integrated approaches in tea pest management for sustainable tea production. pp. 18-32. *In*: Proceedings of the Workshop on Tea Production Technology Updated held on 24 December 2014 organized by Bangladesh Tea Research Institute, Srimangal, Moulvibazar and Krishi Gobeshona Foundation, BARC campus, Dhaka.
9. **M.S.A. Mamun**, M.M. Hoque, M. Ahmed, A. Sarkar and H. Kabir. 2015. Evaluation of some indigenous plant extracts against red spider mite, *Oligonychus coffeae* Nietner (Acarina: Tetranychidae) in tea. Paper presented at the 23<sup>rd</sup> Bangladesh Science Conference on Science and Technology for National Development organized by Bangladesh Association for the Advancement Science and Bangabandhu Sheikh Mujibur Rahman Agricultural University, Gazipur held on 17-18 October 2015 at Bangabandhu Sheikh Mujibur Rahman Agricultural University, Gazipur.

10. **M.S.A. Mamun**, M.M. Hoque, M. Ahmed and M. Yasin. 2015. Physiological and biochemical changes in tea leaves and made tea due to red spider mite infesting tea. Paper presented in the Annual Botanical Conference 2015 on Plant Sciences: Challenges and Opportunities organized by Bangladesh Botanical Society on 4-5 December 2015 at Jahangirnagar University, Savar, Dhaka.
11. M. Yasin, M.S. Hossain, M.M. Hoque, **M.S.A. Mamun** and S. Ahmed. 2018. Variation in quality parameters of black tea in different topographical positions. *In*: Proceeding of the International Conference on Chemical Science & Technology (ICCST-Chem 2018) held on 24-25 February 2018, at KUET, Khulna, Bangladesh. (ISBN: 978-984-34-4017-8).
12. **M.S.A. Mamun** and M.J.A.M. Rahman. 2019. Bangladesh Tea: Past, Present and Future. Paper presented in the in-house seminar held on 21-27 July 2019 jointly organized by the Bangladesh Tea Board and Indonesian Tea Board at Indonesia Tea and Cinchona Research Institute, Bandung, Indonesia. pp. 1-10.
13. **M.S.A. Mamun**. 2022. Integrated pest management (IPM) strategies for sustainable tea cultivation. *In*: Proceeding of the 7<sup>th</sup> Edition of the Global Conference on Plant Science and Molecular Biology held on 1-2 September 2022 organized by Magnus Group in Paris, France.
14. **M.S.A. Mamun**. 2023. Integrated pest management of tea. *In*: Proc. Webinar on Integrated pest management of tea held on 4 March 2023 organized by Tea Research Centre, Horticultural Science Research Institute, Iran.
15. **M.S.A. Mamun**. 2023. Impact of climate change and its adaptation strategies for sustainable tea production in Bangladesh. *In*: Proc. of the webinar on climate changes regarding challenges mitigation and adaptation measures for the tea sector held on 20 March 2023 organized by Asia Tea Alliance, India.
16. **M.S.A. Mamun**. 2024. Impact of climate change and its adaptation strategies for sustainable tea production in Bangladesh. Keynote paper presented in the training workshop under climate change project held on 3 February 2024 organized by Project Development Unit, Bangladesh Tea Board, Sreemangal, Moulvibazar.
17. **M.S.A. Mamun**. 2025. Towards Climate-Smart Tea: Integrating Sustainable Pest Management. Keynote paper presented in the seminar hosted by Duncan Brothers (Bangladesh) Limited on April 19, 2025, at Manu Valley Club, Shamsheernagar, Moulvibazar.

#### Abstract 09

1. M. Ahmed, **M.S.A. Mamun**, M.M. Hoque and R.S. Chowdhury. 2011. Influence of weather parameters on red spider mite – a major pest of tea in Bangladesh. Abstracts of the Conference on Engineering, Research Innovation and Education held on 11-13 January 2011 organized by Shahjalal University of Science and Technology, Sylhet, Bangladesh. 27p.
2. M. Ahmed and **M.S.A. Mamun**. 2012. Organic pollutants in food: current status of pesticide residues in Bangladesh tea. Abstracts of the Seminar on Organic Pollutants in Food, Agricultural Products and Environment held on 17-18 January 2012 jointly organized by the University of Dhaka, Bangladesh and Uppsala University, Sweden. 16p.
3. **M.S.A. Mamun** and M. Ahmed. 2012. Integrated pest management in tea: Prospects and future strategies in Bangladesh. Abstracts of the International Symposium on Food Security Dilemma: Plant Health and Climate Change Issues held on 7-9 December 2012 organized by Association for Advancement in Plant Protection, Bidhan Chandra Krishi Biswavidyalaya, Kalyani, West Bengal, India. 167p.

4. **M.S.A. Mamun**, M.M. Hoque and M. Ahmed. 2014. Effect of different pruning operations on the incidence of red spider mite, *Oligonychus coffeae* Nietner (Acarina: Tetranychidae) of tea in Bangladesh. Abstracts of the 13th Conference of Bangladesh Society of Agronomy on Agronomic Visions for Sustainable Food Security held on 20 September 2014 at Bangladesh Rice Research Institute, Gazipur. 23p.
5. **M.S.A. Mamun**, M.M. Hoque, M. Ahmed, A. Sarkar and H. Kabir. 2015. Evaluation of some indigenous plant extracts against red spider mite, *Oligonychus coffeae* Nietner (Acarina: Tetranychidae) in tea. Abstracts of the 23<sup>rd</sup> Bangladesh Science Conference on Science and Technology for National Development organized by Bangladesh Association for the advancement Science and Bangabandhu Sheikh Mujibur Rahman Agricultural University, Gazipur held on 17-18 October 2015 at Bangabandhu Sheikh Mujibur Rahman Agricultural University, Gazipur. 71p.
6. **M.S.A. Mamun**, M.M. Hoque, M. Ahmed, M. Yasin. 2015. Physiological and biochemical changes in tea leaves and made tea due to red spider mite infesting tea. Abstracts of the Annual Botanical Conference 2015 on Plant Sciences: Challenges and Opportunities organized by Bangladesh Botanical Society on 4-5 December 2015 at Jahangirnagar University, Savar, Dhaka. 84p.
7. **M.S.A. Mamun**. 2022. Integrated pest management (IPM) strategies for sustainable tea cultivation. Abstracts of the 7<sup>th</sup> Edition of Global Conference on Plant Science and Molecular Biology held on 1-2 September 2022 organized by Magnus Group in Paris, France. p.52.
8. **M.S.A. Mamun**. 2023. Integrated pest management of tea. Abstract of the webinar on Integrated pest management of tea held on 4 March 2023 organized by Tea Research Centre, Horticultural Science Research Institute, Iran.
9. **M.S.A. Mamun**. 2023. Impact of climate change and its adaptation strategies for sustainable tea production in Bangladesh. Abstracts of the webinar on climate changes regarding challenges mitigation and adaptation measures for the tea sector held on 20 March 2023 organized by Asia Tea Alliance, India.

#### Circular/Booklet 10

1. M. Ahmed, **M.S.A. Mamun** and S.K. Paul. 2010. Looper caterpillar-a threat to tea and its management. (Bangla & English Version) BTRI Circular no. 132, Bangladesh Tea Research Institute, Srimangal, Moulvibazar. pp. 1-7.
2. M. Ahmed, **M.S.A. Mamun** and S.K. Paul. 2010. Pesticide residue in Bangladesh tea. A Booklet of Residue project, Bangladesh Tea Research Institute, Srimangal, Moulvibazar. pp. 1-6.
3. **M.S.A. Mamun** and M. Ahmed. 2012. Approved insecticides, miticides and nematicides for tea (Revised & Updated). BTRI Circular no. 135, Bangladesh Tea Research Institute, Srimangal, Moulvibazar. pp. 1-7.
4. **M.S.A. Mamun**, M.A. Motalib and M. Ahmed. 2013. Compatibility between and among-pesticides, inorganic fertilizers and pesticides & inorganic fertilizers for foliar application in tea. BTRI Circular no. 136, Bangladesh Tea Research Institute, Srimangal, Moulvibazar. pp. 1-6.
5. **M.S.A. Mamun**, S.K. Paul and M. Ahmed. 2014. Approved insecticides, miticides and nematicides for tea (Revised & Updated). BTRI Circular no. 137, Bangladesh Tea Research Institute, Srimangal, Moulvibazar. pp. 1-7.

6. M. Ali, **M.S.A. Mamun**, S.K. Paul and M.J. Alam. 2017. Approved insecticides, miticides and nematocides for tea (Revised & Updated). BTRI Circular no. 142, Bangladesh Tea Research Institute, Srimangal, Moulvibazar. 40p.
7. **M.S.A. Mamun**, M.J. Alam and M. Ali. 2018. Integrated pest management (IPM) approaches to major pests of tea for sustainable tea production. A Booklet of IPM project, Bangladesh Tea Research Institute, Srimangal, Moulvibazar. pp. 1-8.
8. M. Ali, **M.S.A. Mamun**, S.K. Paul and M.J. Alam. 2021. Approved insecticides, miticides and nematocides for tea (Revised & Updated). BTRI Circular no. 148, Bangladesh Tea Research Institute, Srimangal, Moulvibazar. 44p.
9. **M.S.A. Mamun**. 2021. Booklet on Tea Plantation Management. A Booklet of Northern Bangladesh Project, Bangladesh Tea Board, Panchagarh. pp. 1-8.
10. **M.S.A. Mamun** and M.I. Hossain. 2023. Post Pruning Pest Management in Tea (*Bangla*). A circular of Bangladesh Tea Research Institute, Srimangal, Moulvibazar. 2p.

### Popular Article 13

1. **M.S.A. Mamun**. 2010. Prosperity of the tea industry (Bangla). *Krishi o Unnoyan*. The Bangladesh Pratidin. Year. 1, No. 181, 18 September 2010. Dhaka.
2. **M.S.A. Mamun**. 2011. Tea for health (Bangla). *Sastho*. The Bangladesh Pratidin. Year. 2, No. 35, 18 April 2011. Dhaka.
3. **M.S.A. Mamun**. 2011. Tea pests and pesticides (Bangla). *Adhunik Krishi Khamar*. Quarterly Agricultural Magazine, Year 2, No. 3, July 2011, Dhaka. pp. 29-30.
4. **M.S.A. Mamun**. 2011. Tea for health (Bangla). *Banglarkantha*. Monthly Online Magazine, 16 October 2011. Sydney, Australia.
5. **M.S.A. Mamun**. 2011. Bangladesh agriculture: Today's challenges and suggestions (Bangla). Ridoyemati o manush special paper competition 2011. *Channel i*. Dhaka. 6p.
6. **M.S.A. Mamun**. 2012. Integrated management of pests of tea (Bangla). *Adhunik Krishi Khamar*. Quarterly Agricultural Magazine, Year 3, No. 3, July 2012. Dhaka. pp. 26-28.
7. **M.S.A. Mamun**. 2016. Integrated pest management (IPM) of red spider mite of tea (Bangla). *Adhunik Krishi Khamar*. Quarterly Agricultural Magazine. Year 7, No. 4, October-December 2016. Dhaka. pp. 39-41.
8. **M.S.A. Mamun**. 2017. A cup of tea: the story of the interval (Bangla). Memoirs of Bangladesh Tea Expo 2017. Bangladesh Tea Board, Nasirabad, Chittagong. pp. 44-48.
9. **M.S.A. Mamun**. 2018. Tea cultivation in Northern Bangladesh: Development & Potentiality. (Bangla). Memoirs of Bangladesh Tea Expo 2018. Bangladesh Tea Board, Nasirabad, Chittagong. pp. 44-48.
10. **M.S.A. Mamun**. 2018. Integrated pest management (IPM) of tea mosquito bug (Bangla). *Adhunik Krishi Khamar*. Quarterly Agricultural Magazine. Year 9, No. 2, April-June 2018. Dhaka. pp. 39-41.
11. **M.S.A. Mamun**. 2019. Development & Potential of the tea industry in Northern Bangladesh (Bangla). *Adhunik Krishi Khamar*. Quarterly Agricultural Magazine. Year 10, No. 2, March-April 2019. Dhaka. pp. 43-45.
12. **M.S.A. Mamun**. 2021. Small scale tea industry: Development and potentiality. pp. 9-18. *In: Tea Cultivation in Panchagarh: Two Decades of Success. A Special Bulletin of Bangladesh Tea Board, Nasirabad, Chittagong.*

13. **M.S.A. Mamun.** 2023. Development and application of IPM technology for sustainable and safe tea production. (Bangla). *Adhunik Krishi Khamar*. Quarterly Agricultural Magazine. Year 14, No. 1, January-February 2023. Dhaka. pp. 41-43.

#### Online Paper 06

1. **M.S.A. Mamun.** 2010. Tea (Bangla). Cash Crops. *e-Krishi*. Agricultural Information Service, Farmgate, Dhaka. (<http://www.ais.gov.bd>)
2. **M.S.A. Mamun.** 2011. Tea pests and their integrated management in Bangladesh (Bangla). *Krishi Tottho*. Agro Bangla. Dhaka. (<http://www.agrobangla.com>)
3. **M.S.A. Mamun.** 2011. Prosperity of the tea industry (Bangla). *Krishi Tottho*. Agro Bangla. Dhaka. 1-4p. (<http://www.agrobangla.com>)
4. **M.S.A. Mamun.** 2011. Tea cultivation at a glance (Bangla). Cash crops. *Krishi*. Jatiyo e Totthokosh. Prime Minister Office, Tejgaon, Dhaka. (<http://www.infokosh.gov.bd>)
5. **M.S.A. Mamun.** 2011. Tea pests and their integrated management in Bangladesh (Bangla). *Krishi*. Jatiyo e Totthokosh. Prime Minister Office, Tejgaon, Dhaka. (<http://www.infokosh.gov.bd>)
6. **M.S.A. Mamun.** 2011. Prosperity of the tea industry (Bangla). *Krishi*. Jatiyo e Totthokosh. Prime Minister Office, Tejgaon, Dhaka. (<http://www.infokosh.gov.bd>)

#### Bulletin/Technical/Study Report 08

1. M. Ahmed, **M.S.A. Mamun**, M.L. Sarker and S.K. Paul. 2010. Determination of residue level of different pesticides in black tea at different intervals after spraying. *A report of Core Research Programme/Project during the year 2007-10 under "Research Grant" of BARC*. Bangladesh Agricultural Research Council, Farmgate, Dhaka. 63p.
2. M. Ahmed, **M.S.A. Mamun** and S.K. Paul. 2017. Studies and Development of IPM strategies of plant parasitic nematodes in tea. *A report of Core Research Programme/Project during the year 2014-17 under "Research Grant" of BARC*. Bangladesh Agricultural Research Council, Farmgate, Dhaka.
3. **M.S.A. Mamun** and M.J. Alam. 2018. Integrated Pest Management (IPM) approaches to major pests of tea for sustainable tea production. *A report of Competitive Research Grant under National Agricultural Technology Program-Phase II Project (NATP-2)*, Bangladesh Agricultural Research Council (BARC), Farmgate, Dhaka. 53p.
4. **M.S.A. Mamun**, N.M. Ali and M.M. Akanda. 2019. Project study report for the extension of smallholding tea cultivation in greater Mymensingh districts. A feasibility project study report submitted to Bangladesh Tea Board, Nasirabad, Chittagong. 118p.
5. **M.S.A. Mamun**, S. Sikder and M.M. Rahman. 2021. Development Project Proposal (DPP) of Extension Small Holding Tea Cultivation in Greater Mymensingh. Bangladesh Tea Board, Nasirabad, Chittagong. 59p.
6. **M.S.A. Mamun**, M.A. Matin, M.N. Islam, M.A. Rakib and S. Sikder. 2021. Tea Cultivation in Panchagarh: Two Decades of Success. A Special Bulletin of Bangladesh Tea Board, Nasirabad, Chittagong. 108p.
7. **M.S.A. Mamun.** 2022. Development Project Proposal (DPP) for Climate Change Trust Fund entitled 'Development of appropriate adaptation strategies to mitigate climate change for sustainable and quality tea production'. Bangladesh Tea Board, Nasirabad, Chittagong. 24p.

8. **M.S.A. Mamun.** 2022. Full Research Project Proposal (FRPP) for CGP fund of KGF entitled 'Development of integrated crop management strategies for sustainable and quality tea production'. Bangladesh Tea Board, Nasirabad, Chittagong. 31p.

#### **Book/Book Chapter 05**

1. **M.S.A. Mamun.** 2011. Indigenous plant extracts for the management of red flour beetle: An ecofriendly sustainable management of stored grain products. LAP LAMBERT Academic Publishing GmbH & Co. KG Dudweiler Landstr. 99, 66123 Saarbrücken, Germany. 112p. ISBN: 978-3-8454-0160-7. <http://www.lap-publishing.com>
2. **M.S.A. Mamun.** 2011. Integrated approaches to tea pest management in south India: A way of sustainable tea cultivation. LAP LAMBERT Academic Publishing GmbH & Co. KG Dudweiler Landstr. 99, 66123 Saarbrücken, Germany. 68p. ISBN: 978-3-8465-5088-5. <http://www.lap-publishing.com>
3. **M.S.A. Mamun.** 2019. Tea Production in Bangladesh: From Bush to Mug. pp. 441-505. In: Hasanuzzaman M. (eds) Agronomic Crops. Volume 1, Chapter 21, Springer, Singapore. ISBN: 978-981-32-9150-8. [https://doi.org/10.1007/978-981-32-9151-5\\_21](https://doi.org/10.1007/978-981-32-9151-5_21)
4. **M.S.A. Mamun.** 2022. সমতলের চা শিল্প [Tea industry of plains (*Bangla*)]. Published by Shamima Nasrin Happy, Bornil Printing Press, Panchagarh. 504p. ISBN: 978-984-35-2587-1. <https://www.rokomari.com/book/278977>
5. K.M. Mohotti, D. Amarasena and **M.S.A. Mamun.** 2023. Nematode problems in tea and their sustainable management. pp. 597-621. In: Khan, M.R. and Quintanilla, M. (eds) Nematode Diseases of Crops and their Sustainable Management. Chapter 24, Academic Press, Elsevier Inc., 50 Hampshire St., 5<sup>th</sup> Floor, Cambridge, MA 02139, USA. ISBN: 9780323912266. <https://doi.org/10.1016/B978-0-323-91226-6.00020-1>

#### **Publication Citation Index by Google Scholar**

Citations 598, h-index 12, i-10 index 17 (Source: <https://scholar.google.com/citations>)

#### **Research Interest Score by Research Gate: 727.7, Reads: 88,152**

Source: <https://www.researchgate.net/profile/Dr-Mohammad-Shameem-Al-Mamun/stats>

#### **World Scientists Rankings 2025 by AD (Alper-Doger) Scientific Index**

Source: <https://www.adscientificindex.com/scientist/mohammad-shameem-al-mamun/5005366>

#### **Extra-Curricular Activities**

##### ***Attended Seminar, Webinar, Conference and Workshop (85)***

- Attended the 116<sup>th</sup> UPASI Annual Conference on "Commodity Outlook" expressing 'Export of plantation crops: Prospects and challenges in the current environment, Energy Conservation in tea manufacturing, MRL Issues, Sustainable Agriculture' held on 14-15 September 2009 at UPASI, Coonoor, Nilgiris, Tamil Nadu, India.
- Attended the UPASI TRF Seminar on "Tea Culture" expressing Tea Botany, Nursery, Field practices and plant breeding, Soil chemistry, Disease management, Pest management/Residue, Tea chemistry and Principle of manufacture, and Plant physiology held on 25-26 September 2009 at UPASI TRF, Valparai, Coimbatore, Tamil Nadu, India.
- Attended the Workshop on "Progress Review and Evaluation of Core Research and Technology Transfer 2009-2010" held on 22-23 June 2010 at Bangladesh Agricultural Research Council (BARC), Farmgate, Dhaka, Bangladesh.
- Attended the Annual Conference on "Weed Management for Sustainable Crop Production" organized by the Weed Science Society of Bangladesh held on 1 January 2011 at Sher-e-Bangla Agricultural University, Dhaka, Bangladesh.

- Attended the “International Conference on Engineering, Research, Innovation and Education” organized by the School of Applied Science & Technology, Shahjalal University of Science & Technology, Sylhet, Bangladesh held on 11-13 January 2011 at Shahjalal University of Science & Technology, Sylhet, Bangladesh.
- Attended the International Seminar on “e-Asia” Asia’s Premier ICT Event held on 1-3 December 2011 at Bangabandhu International Conference Centre, Dhaka, Bangladesh.
- Attended the International Seminar on “Organic Pollutants in Food, Agricultural Products and Environment” held on 17-18 January 2012 jointly organized by the University of Dhaka and Uppsala University, Sweden at the University of Dhaka, Bangladesh.
- Attended the International Symposium on “Food Security Dilemma: Plant Health and Climate Change Issues” held on 7-9 December 2012 organized by the Association for Advancement in Plant Protection, Bidhan Chandra Krishi Biswavidyalaya, Kalyani, West Bengal, India.
- Attended the Workshop on “Capacity Enhancement of NARS through ICT based agricultural research Management Information System” held on 16 September 2013 at Bangladesh Agricultural Research Council (BARC), Farmgate, Dhaka, Bangladesh.
- Attended the Workshop on “Development of an Electronic Compendium on Research Findings of NARS Institutes” held on 24 September 2013 at Bangladesh Agricultural Research Council (BARC), Farmgate, Dhaka, Bangladesh.
- Attended the Workshop on “Annual Review Workshop on Crop Production Programme” held on 24 August 2014 at Bangladesh Agricultural Research Council (BARC), Farmgate, Dhaka, Bangladesh.
- Attended the 13<sup>th</sup> Conference of Bangladesh Society of Agronomy on “Agronomic Visions for Sustainable Food Security” held on 20 September 2014 at Bangladesh Rice Research Institute, Gazipur.
- Attended the Workshop on “Comprehensive Policy Plan for National Research System (NARS)” held on 29 September 2014 at Bangladesh Agricultural Research Council (BARC), Farmgate, Dhaka, Bangladesh.
- Attended the Seminar on “Tea Pest and Mosquito Control in Tea Garden Areas of Greater Sylhet Region” held on 25 October 2014 organized by the Zoological Society of Bangladesh at Bangladesh Tea Research Institute, Srimangal, Moulvibazar, Bangladesh.
- Attended the daylong workshop on “Consultation meeting with climate change national focal points to develop proposals targeting for climate funding” held on 13 December 2014 organized by Bangladesh Water Partnership at BRAC Centre Inn, Mohakhali, Dhaka, Bangladesh.
- Attended the Workshop on “Tea Production Technology Updated” held on 24 December 2014 organized by Bangladesh Tea Research Institute, Srimangal, Moulvibazar and Krishi Gobeshona Foundation, BARC campus, Dhaka at Bangladesh Tea Research Institute, Srimangal, Moulvibazar, Bangladesh.
- Attended the Workshop on “Problems, Prospect and Future Work plan of Tea Industry” held on 3 January 2015 organized by Bangladesh Tea Board & Ministry of Commerce, Government of Bangladesh at Export Promotion Bureau, Karwanbazar, Dhaka, Bangladesh.
- Attended the Workshop on “Road Map for Success: Bangladesh Tea Industry” held on 5 March 2015 organized by Bangladesh Tea Board & Ministry of Commerce, Government of Bangladesh at Export Promotion Bureau, Karwanbazar, Dhaka, Bangladesh.



- Attended the 23<sup>rd</sup> Bangladesh Science Conference on “Science and Technology for National Development” organized by Bangladesh Association for the advancement Science and Bangabandhu Sheikh Mujibur Rahman Agricultural University, Gazipur held on 17-18 October 2015 at Bangabandhu Sheikh Mujibur Rahman Agricultural University, Gazipur.
- Attended the Annual Botanical Conference 2015 on “Plant Sciences: Challenges and Opportunities” organized by Bangladesh Botanical Society on 4-5 December 2015 at Jahangirnagar University, Savar, Dhaka.
- Attended in 19th Biennial International Conference and Annual General Meeting 2015 of the Zoological Society of Bangladesh on “Zoonotic Diseases in Bangladesh” organized by the Zoological Society of Bangladesh held on 5 December 2015 at the University of Dhaka.
- Attended the Closing Workshop on “ARMIS in Agricultural R&D” held on 3 August 2016 at Bangladesh Agricultural Research Council (BARC), Farmgate, Dhaka, Bangladesh.
- Attended the Workshop on “Annual Review Workshop on Crop Protection” held on 4 August 2016 at Bangladesh Agricultural Research Council (BARC), Farmgate, Dhaka, Bangladesh.
- Attended the Training Workshop on “Financial Management of CRG Project, NATP Phase -II” held on 14-15 June 2017 at Bangladesh Agricultural Research Council (BARC), Farmgate, Dhaka, Bangladesh.
- Attended the Training Workshop on “Research Review of CRG Project, NATP Phase-II” held on 21 December 2017 at Bangladesh Agricultural Research Council (BARC), Farmgate, Dhaka, Bangladesh.
- Attended a daylong workshop on “E-Service at District level” held on September 2017 at the Deputy Commissioner's Conference Room in Panchagarh, Bangladesh.
- Attended a daylong workshop on “Achieving the Sustainable Development Goals (SDGs) District Level through localization, Investment planning and increasing individual entrepreneurs and capacity developments” held on 3 January 2018 at Deputy Commissioner's Conference Room in Panchagarh, Bangladesh.
- Attended a two-day workshop on “Developing of Video Clips and Documentation” held on 25-26 April 2018 organized by the a2i programme, Prime Minister Officer at Bangladesh Public Administration Training Centre (BPATC), Savar, Dhaka, Bangladesh.
- Attended a daylong workshop on “Innovation in Public Service” and presented the innovation “Two leaves and a bud” mobile apps for the development of the tea industry held on 23 July 2018 at the Deputy Commissioner's Conference Room in Panchagarh, Bangladesh.
- Attended a two-day training workshop on “Design and Development of an Online and Interactive Web-based *Project Management Information System (PMIS)* Application Software for IMED” held on 25-26 July 2018 organized by IMED at Planning Commission, Shere-Bangla Nagar, Dhaka, Bangladesh.
- Attended a two-day workshop on “BanglaJOL and Improving Journal Publishing Practices and Standards” held on 7-8 November 2018 organized by Bangladesh Academy of Sciences at BRAC Centre Inn, Mohakhali, Dhaka, Bangladesh.
- Attended a daylong workshop on “Innovation Showcasing Fair” and presented the innovation “Two leaves and a bud” mobile apps for the development of the tea industry held on 20 June 2019 organized by the Ministry of Commerce at National Museum Hall Room, Shahbag, Dhaka, Bangladesh.

- Attended an exposure visit to “Indonesia Tea Board, Indonesia Tea and Cinchona Research Institute and Small holding tea in Indonesia” with Chairman, Bangladesh Tea Board during 21-27 July 2019 jointly organized by Bangladesh Tea Board and Indonesian Tea Board.
- Attended a daylong training workshop on “Implementation of Annual Performance Agreement (APA)” held on 30 September 2019 at the Deputy Commissioner's Conference Room in Panchagarh, Bangladesh.
- Attended a daylong seminar on “Vision 2041: Developed and Prosperous Bangladesh” held on 28 March 2021 on the occasion of “Golden Jubilee of Independence - Celebration of Developing Bangladesh from Least Developed Countries” at Deputy Commissioner's Conference Room in Panchagarh, Bangladesh.
- Attended a daylong online seminar on “Tea industry in Bangladesh: Problems and Prospects” held on 06 June 2021 on the occasion of “1<sup>st</sup> National Tea Day 2021” at Bangladesh Tea Board, Nasirabad, Chittagong, Bangladesh.
- Attended a daylong workshop on “Selection & Validation of CRG Generated Technologies of CRG Sub-Project of NATP-2” held on 08 June 2021 at Bangladesh Agricultural Research Council (BARC), Farmgate, Dhaka, Bangladesh.
- Attended a daylong virtual workshop on “Determining the strategy of the technology validation process at the field level” held on 24 August 2021 at Bangladesh Agricultural Research Council (BARC), Farmgate, Dhaka, Bangladesh.
- Attended a virtual training workshop on “Capacity development, expansion and bringing dynamism to district branding activities” held on 07 September 2021 at the Deputy Commissioner's Conference Room in Panchagarh, Bangladesh.
- Attended a three-day virtual conference on “Open Access Scholarly Publishing: *Designing 21st Century Knowledge Sharing Systems*” held on 21-23 September 2021 organized by Open Access Scholarly Publishing Association (OASPA), The Hague, The Netherlands.
- Attended a daylong virtual match-making workshop for public-private skills development institutions, industrial establishments and unemployed youth to create an “Unemployment Free District” held on 03 October 2021 organized by a2i, Agargaon, Sher-e-Bangla Nagar, Dhaka-1207, Bangladesh.
- Attended a daylong seminar on “Implementation of safe food authority laws, rules and regulations in Bangladesh to ensure safe food” held on 08 November 2021 organized by Bangladesh Food Safety Authority at Deputy Commissioner's Conference Room in Panchagarh, Bangladesh.
- Attended a daylong virtual workshop on “Biopesticide Regulatory: Improving Phytosanitary Trade Compliance in Bangladesh” held on 17 November 2021 jointly organized by Plant Protection Wing, DAE and The Asia-Pacific Association of Agricultural Research Institutions (APAARI), Bangkok, Thailand.
- Attended a daylong workshop on “Inception Workshop on Validation of NATP-2 Generated Technologies” held on 24 January 2022 at Bangladesh Agricultural Research Council (BARC), Farmgate, Dhaka, Bangladesh.
- Attended a virtual webinar on “Web of Science Core Collection Journals Selection Process” held on 29 March 2022 organized by Clarivate, United Kingdom.
- Attended a daylong workshop on “Implementation of the 10 special initiatives of the Prime Minister Sheikh Hasina” held on 09 June 2022 organized by the Governance Innovation Unit, Prime Minister’s Office at Deputy Commissioner's Conference Room in Panchagarh, Bangladesh.

- Attended a two-day workshop on “Social Accountability Tools” held on 11-12 June 2022 organized by the Bangladesh Public Administration Training Centre (BPTAC) at the Deputy Commissioner's Conference Room in Panchagarh, Bangladesh.
- Attended a day-long workshop on “Tea Industry of Plains: Past, Present and Future” held on 28 July 2022 organized by Bangladesh Tea Board at the Deputy Commissioner's Conference Room in Panchagarh, Bangladesh.
- Attended a virtual conference on the “8<sup>th</sup> ACSE Annual Meeting 2022” held on Sunday 21, August 2022 organized by the Asian Council of Science Editors, Dubai, UAE.
- Attended the 7<sup>th</sup> Edition of the Global Conference on “Plant Science and Molecular Biology” held on 1-2 September 2022 organized by Magnus Group in Paris, France.
- Attended the webinar on "What Can Entomopathogenic Nematodes do for Soil Health?" held on 14 September 2022 organized by Biomemaakers, USA.
- Attended the webinar on "Digital Agriculture Forum 2022" held on 9 December 2022 organized by the Food and Agriculture Organization (FAO) of the United Nations and Zhejiang University, China.
- Attended the webinar on "Navigating the impact landscape" held on 31 January 2023 organized by Kudos Innovations Ltd, 100 Liverpool Street, London, EC2M 2AT, UK.
- Attended the webinar on `What`s New in Version IV: Principles of Transparency and Best Practice in Scholarly Publishing` held on 05 February 2023 organized by the Asian Council of Science Editors, Dubai, UAE.
- Attended the webinar on “Ceylon Tea Roadmap 2030: A Sustainability Framework” held on 6 February 2023 organized by the Tea and Herbal Association of Canada.
- Attended the webinar on “How to get more readership and citations or your article” held on 22 February 2023 organized by Kudos Innovations Ltd, 100 Liverpool Street, London, EC2M 2AT, UK.
- Attended the daylong workshop on “Tea Quality Standards: Export Potential” held on 06 March 2023 organized by Project Development Unit, Bangladesh Tea Board, Srimangal, Moulvibazar.
- Attended the webinar on “Integrated Pest Management of Tea” held on 4 March 2023 organized by Tea Research Centre, Horticultural Science Research Institute, Iran.
- Attended the webinar on “Climate change regarding challenges mitigation and adoption measures for tea sector” held on 20 March 2023 organized by Asia Tea Alliance, India.
- Attended the webinar on “Avoiding predatory publishers and identifying suitable journals” held on 15 May 2023 organized by INASP, The Old Music Hall, 106-108 Cowley, Road, Oxford OX4 1JE, UK.
- Attended a daylong workshop on “Achievement of PIU-BARC, NATP-2 and Technology Validation” held on 25 May 2023 at Bangladesh Agricultural Research Council (BARC), Farmgate, Dhaka, Bangladesh.
- Attended a virtual conference on the “9<sup>th</sup> ACSE Annual Meeting 2023” held on 20 August 2023 organized by the Asian Council of Science Editors, Dubai, UAE.
- Attended the Workshop on “Annual Review Workshop on Insect Management Program” held on 31 August 2023 at Bangladesh Agricultural Research Council (BARC), Farmgate, Dhaka, Bangladesh.

- Attended the daylong workshop on “Production, Consumption and Export: Present Status and Prospects” held on 27 September 2023 at Bangladesh Tea Research Institute (BTRI), Sreemangal, Moulvibazar, Bangladesh.
- Attended the webinar on “Futures from the frontiers of climate science” held on 15 November 2023 organized by the Frontiers Forum, Lausanne, Switzerland.
- Attended the webinar on "Diversity in research and its impact on open science" held on 28 November 2023 organized by My Science Work, 27-33 Rue du Colonel Pierre Avia, Paris, Île-de-France 75015, France.
- Attended the webinar on "Braconid Wasp” held on 7 December 2023 organized by Tanyptera Trust, National Museums Liverpool, World Museum, William Brown Street, Liverpool, UK.
- Attended the National Workshop on “Atlas of Climate Adaptation in South Asia” held on 13-14 May 2024 organized by Borlaug Institute of South Asia, India at Bangladesh Agricultural Research Council (BARC), Farmgate, Dhaka, Bangladesh.
- Attended a daylong workshop on “Innovation Showcasing Fair” and presented the innovation “TeaSoft” mobile app in building a smart Bangladesh, preventing tea smuggling, ensuring government revenue collection and obtaining accurate information held on 15 May 2024 organized by the Ministry of Commerce at International Mother Language Institute, Segun Bagicha Road, Dhaka, Bangladesh.
- Attended the webinar on “Phosphorus deficiency leads to stunting, but what does that really mean?” held on 11 June 2024 organized by PP Systems, 110 Haverhill Road, Suite 301, Amesbury, MA 01913, USA.
- Attended the webinar on “Introduction to Open Science” held on 27 September 2024 organized by AuthorAID, INASP, The Old Music Hall, 106-108, Cowley Road, Oxford, UK.
- Attended the webinar on “Use of microbes in controlled environment agriculture” held on 31 October 2024 organized by The World Bio-Protection Forum, Institute of Life Science, Swansea University, Singleton Park, Swansea SA2 8PP, United Kingdom.
- Attended a virtual conference on the “11<sup>th</sup> ACSE Annual Conference 2025” held on 25 February 2025 organized by the Asian Council of Science Editors, Dubai, UAE.
- Attended a webinar on “Enhancing Peer Review: How Reviewer Credits Supports Editors and Elevates the Process” held on 8 March 2025 organized by the Asian Council of Science Editors, Dubai, UAE.
- Attended a seminar on “Towards Climate-Smart Tea: Integrating Sustainable Pest Management” as keynote speaker, hosted by Duncan Brothers (Bangladesh) Limited on April 19, 2025, at Manu Valley Club, Shamshernagar, Moulvibazar.
- Attended a webinar on “Peer Review Training for Researchers and Reviewers in Asia” held on 27 May 2025 organized by the Asian Council of Science Editors, in collaboration with Reviewer Credits, Dubai, UAE.
- Attended a virtual panel discussion on “Using AI in Peer Review: Caution, Capability, and Community Input” held on 12 June 2025 organized by the Asian Council of Science Editors, Dubai, UAE.
- Attended a webinar on “Sparkleberry rootstocks improve rooting depth and drought avoidance in grafted southern highbush blueberry” held on 18 June 2025 organized by the PP Systems, 110 Haverhill Road, Suite 301, Amesbury, MA 01913, USA.
- Attended a daylong workshop on "Strengthening Editorial Policies and Workflows" held on 23 June 2025, organized by the Bangladesh Academy of Sciences, Agargaon, Dhaka.

- Attended a 4 day long summit on "AI Summit Bangladesh" held on 7-10 July 2025, organized by the AI Academy Bangladesh, Dhaka.
- Attended a webinar on "Beyond The Naked Eye: Mites, Ticks, and Their Growing Relevance in Health and Agriculture" held on 27 July 2025 organized by the Global Entomologists Network (GEN), Islamabad, Pakistan.
- Attended a webinar on "Biological Control for a Sustainable Future – Global Strategies & Innovations in Managing Agricultural Threats" held on 15 August 2025 organized by the The Forum for Agricultural Research in Africa (FARA), No. 7 Flower Avenue, New Achimota Mile 7, Accra, Ghana.
- Attended a webinar on "Strategies for a Good Discussion for Your Thesis and Research Paper" held on 15 August 2025 organized by the International Network for Advancing Science and Policy (INASP), The Old Music Hall, 106-108 Cowley Road, Oxford OX4 1JE, UK.
- Attended a webinar on "From Research to Manuscript: The Role of Scientific Writing in Institutional Contexts" held on 16 August 2025 organized by the Asian Council of Science Editors, Dubai, UAE.
- Attended a webinar on "How to publish an article in open access?" held on 18 September 2025 organized by the Springer Nature, Paris, France.

#### ***R&D Project Conducted (05)***

- Successfully conducted BTRI-BARC core research project entitled "Determination of residue level of pesticides at different plucking intervals after spraying" as Co-Principal Investigator (Co-PI) during 2007-2010.
- Successfully conducted BTRI-BARC core research project entitled "Studies and Development of IPM strategies of plant parasitic nematodes in tea" as Co-Principal Investigator (Co-PI) during 2014-2017.
- Successfully conducted USAID-funded BARC NATP Phase-2 sub-project under CRG entitled "Integrated Pest Management (IPM) Approaches to Major Pests of Tea for sustainable tea production" as Principal Investigator (PI) during 2017-2018.
- Successfully conducted ODA & EC Revolving funded Tea Board project under the Ministry of Commerce entitled "Extension of Small Holding Tea Cultivation in Northern Bangladesh" as Project Director (PD) during 2017-2021.
- Conducting Bangladesh Climate Change Trust Funded project under the Ministry of Environment, Forest and Climate Change (MoEFCC) entitled 'Development of appropriate adaptation strategies to mitigate climate change for sustainable and quality tea production' as a Post-Doctoral Research Fellow during 2023-2025.

#### ***Editorial Board Member (13)***

- Executive Editor, International Journal of Agricultural Research, Innovation and Technology (ISSN: 2224-0616)
- Executive Editor, Tea Journal of Bangladesh (ISSN: 0253-5483)
- Editorial Board Member, World Journal of Agricultural Research, USA (ISSN: 2333-0643)
- Editorial Board Member, Zoological and Entomological Letters, South Africa (ISSN: 2788-8428)
- Review Editor, Frontiers in Plant Science, Switzerland (ISSN: 1664-462X)
- Reviewer, Journal of Agricultural Science and Technology, USA (ISSN: 2161-6256)
- Reviewer, African Journal of Biotechnology, USA (ISSN: 1684-5315)
- Reviewer, Journal of Plant Protection Sciences, India (ISSN 2249-3840)
- Reviewer, Journal of Tea Science Research, Canada (ISSN 1927-6496)
- Reviewer, International Journal of Entomological Research, Pakistan (ISSN 2310-3906)

- Reviewer, International Journal of Environment and Climate Change, India (ISSN: 2581-8627)
- Reviewer, Journal of Experimental Agriculture International, India (ISSN: 2457-0591)
- Reviewer, Uttar Pradesh Journal of Zoology, India (ISSN: 0256-971X)

#### **International Paper Reviewed (28)**

- Bryla, D.R. and Machado, Rui M.A. 2011. Comparative effects of nitrogen fertigation and granular fertilizer application on growth and availability of soil nitrogen during establishment of high bush blueberry. *Frontiers in Crop Science and Horticulture*, 2(46): 1-8. (Switzerland).
- Akther, N., Bashir, F. and Azim, M.N. 2012. Thrips Infestation on the aquatic flowers Lily and Lotus of Kashmir Valley, India. *International Journal of Entomology* (India).
- Nepolean, P. 2012. *In vitro* studies on tolerance of selected biocontrol agents to certain agrochemicals used in tea (*Camellia sinensis*). *African Journal of Biotechnology*. Academic Journal. (USA).
- Anticholinesterase, insecticidal, antimicrobial and antioxidant properties of essential oil and organic extracts of Tunisian *Mentha pulegium*. *Journal of Agricultural Science and Technology* (USA).
- Ntalli, N.G., Nasiou, E. and Menkissoglu-Spiroudi, U. 2013. Essential oils from rosemary, orange, lavandula and false yellow head inhibit root-knot nematode hatching and motility. *Journal of Agricultural Science and Technology*, 3(8): 603-616 (USA).
- Islam, M.S., Ali, M. and Ahmad, I. 2012. Efficacy of Sedomil 72WP and Recozeb 80WP to control dieback (*Colletotrichum gloeosporioides*) of tea. *Journal of Plant Protection Sciences*, 4(2): 25-31 (India).
- Glenn, L., Sia Su, Christian James A. Amil, Jilly Ann P. San Juan, Maria Lilibeth L. Sia Su, Glenn S. Maguad, Rizza A. F. Salinas, Elena M. Ragraio, Anna Theresa A. Santiago, Gliceria B. Ramos. 2013. Ectoparasitesurvey of quarantined animals in a wildlife rescue center in Quezon City, Philippines. *World Journal of Agricultural Research*, 1 (3): 44-47 (USA).
- Balaji, M., Panchal and Manvendra S. Kachole. 2013. Identification of potent inhibitors of *Chilo partellus* gut proteinase from plant gum PIs. *International Journal of Entomology* (India).
- Zorb, C., Becker, D., Hasler, M., Muehling, K.H., Godde, V., Niehaus, K. and Geilfus, C.M. 2013. Silencing of the sulfur rich  $\alpha$ -gliadin storage protein family in wheat grains (*Triticum aestivum* L.) causes no unintended side-effects on other metabolites. *Frontiers in Crop Science and Horticulture*, 4: 369. (Switzerland).
- Effects of organic and inorganic manures on the growth attributes of root-knot nematode (*Meloidogyne incognita*) infected Ethiopian eggplant (*Solanum aethiopicum*). *World Journal of Agricultural Research*, 1(6): 104-107 (USA).
- Relative toxicity of some insecticides against cotton mealybug, *Phenacoccus olenopsis* Tinsley (Hemiptera: Pseudococcidae). *Journal of Plant Protection Sciences*, 5(1): 26-31 (India).
- M. Azadbakht, N. Tajari, R. Alimoradzade. 2014. Mechanical properties of peas pods (*Pisum sativum* var. *shamshiri*). *World Journal of Agricultural Research* (USA).
- M. Bhubaneshwari Devi and N. Victoria Devi. 2014. Biology of rust-red flour beetle, *Tribolium castaneum* (Herbst) (Tenebrionidae: Coleoptera). *International Journal of Entomological Research* (Pakistan).
- Vodjo Nicodeme Fassinou Hotegni, Willemien J.M. Lommen, Euloge K. Agbossou and Paul C. Struik. 2014. Fruit quality of pineapple and its variation as affected by weight and type of planting material. *Frontiers in Crop Science and Horticulture*, 5: 798. (Switzerland).

- Sophie Brunel-Muguet, Philippe D. Hooghe, Marie-Paule Bataille, Colette Larré, Tae Hwan Kim, Jacques Trouverie, Jean-Christophe AVICE, Philippe Etienne and Carolyne Durr. 2015. Heat stress during seed filling interferes with sulfur restriction on grain composition and seed germination in oilseed rape (*Brassica napus* L.). *Frontiers in Crop Science and Horticulture*, 6: 213. **(Switzerland)**.
- Myriam Siegwart, Benoit Graillot, Christine Blachère-Lopez, Samantha Besse, Marc Bardin, Philippe Nicot and Miguel Lopez-Ferber. 2015. Resistance to bio-insecticides or how to enhance their sustainability: a review. *Frontiers in Plant Science*, 6: 381. **(Switzerland)**.
- Nepolean, P. Jayanthi, R., Mareeswaran, J. and Radhakrishnan, B. 2015. Plant protection development in tea plantations of south India in the last five decades. *Journal of Tea Science Research*, 5(7): 1-6. **(Canada)**.
- Quanjin Wu, Zhidan Chen, Weijiang Sun, Mingjie Chen and Tingting Deng. 2016. De novo sequencing of the leaf transcriptome reveals complex light responsive regulatory networks in *Camellia sinensis* cv. *Baijiguan*. *Frontiers in Crop Science and Horticulture*, 7: 332. **(Switzerland)**.
- Assessment of spatial and temporal pest distribution and importance of major crops in Megech Irrigable Command Areas of north Gondar, Ethiopia. *World Journal of Agricultural Research* **(USA)**.
- Arvind Kumar, Pankaj Kumar, Vishnoo Omar and Pradip Kumar Patel. 2023. Bioefficacy of bio-rational insecticides against pod borer complex of Mungbean, *Vigna radiata* (L.). *International Journal of Environment and Climate Change* **(India)**.
- Koffi, Tahia Jean Yves, Yah Gwladys Gnamien, Ahou Nadia Kanga, Oussou Kouadio Mathieu Koffi, Jean-renaud Allouko, Kouame Mathurin Koffi, Koutoua Ayolie, and Yatty Justin Kouadio. 2023. Shading and planting material type effects on some physiological and biochemical compounds synthesis in *Desmodium adscendens* plants leaves in the domestication phase, Daloa, Côte d'Ivoire. *Journal of Experimental Agriculture International*, 45(12): 64-75. **(India)**.
- Yang Li, Yuheng Lu, Haoyang Liu, Jiahe Bai, Chen Yang, Haiyan Yuan, Xin Li, and Qiang Xiao. 2024. Tea leaf disease and insect identification based on improved MobileNetV3. *Technical Advances in Plant Science: Frontiers in Plant Science*, 15: 1459292. <https://doi.org/10.3389/fpls.2024.1459292> **(Switzerland)**.
- Feeding Behavior and ovipositional preference of the tea mosquito bug, *Helopeltis theivora* (Hemiptera: Miridae) on tea, *Camellia sinensis* (Theales: Theaceae). *Uttar Pradesh Journal of Zoology*, 45(23): 39-47. **(India)**.
- Lanting Li and Yingding Zhao. 2024. Tea disease identification based on ECA attention mechanism and ResNet50 network. *Technical Advances in Plant Science: Frontiers in Plant Science*, 16: 1489655. <https://doi.org/10.3389/fpls.2025.1489655> **(Switzerland)**.
- Youcheng Zhang, Jun Song, Xinjian Yu and Xingfu Ji. 2025. WMC-RTDETR : A lightweight tea disease detection model. *Sustainable and Intelligent Phytoprotection: Frontiers in Plant Science*, 16: 1574920. <https://doi.org/10.3389/fpls.2025.1574920> **(Switzerland)**.
- Comparative advantage and policy protection on tea production in Nigeria. *Asian Journal of Agricultural and Horticultural Research*, **(India)**.
- Zhang, J., Yang, X., Fu, X., Wang, B. and Li, H. 2025. LDL-MobileNetV3S: An Enhanced Lightweight MobileNetV3-Small Model for Potato Leaf Disease Diagnosis through Multi-Module Fusion. *Sustainable and Intelligent Phytoprotection: Frontiers in Plant Science*, 17: 1656731. **(Switzerland)**.



- Lyu, Y., Li, C., Zhang, B., Liu, M., Ma, H., Lv, X., Yue, F. and LV, C. 2025. Deploying vision transformers for crop disease monitoring on UAVs in resource-constrained agricultural fields. *Technical Advances in Plant Science: Frontiers in Plant Science*, 17: 1655914. (Switzerland).

#### *Thesis Supervised (14)*

- Humayun Kabir. 2012. 'Evaluation of some indigenous plant extracts against red spider mite, *Oligonychus coffeae* Nietner (Tetranychidae: Acarina) in tea' as a partial fulfillment of the requirements for the degree of BSc (Engg.) in Food Engineering & Tea Technology, Shahjalal University of Science & Technology, Sylhet, Bangladesh.
- Md. Sohrab Uddin. 2012. 'Comparative studies on the performance between plant cakes and synthetic chemicals against nematodes in tea' as a partial fulfillment of the requirements for the degree of BSc (Engg.) in Food Engineering & Tea Technology, Shahjalal University of Science & Technology, Sylhet, Bangladesh.
- Md. Yasin. 2013. 'Studies on the physiological and biochemical changes in tea leaves due to attack of red spider mites in tea' as a partial fulfillment of the requirements for the degree of BSc (Engg.) in Food Engineering & Tea Technology, Shahjalal University of Science & Technology, Sylhet, Bangladesh.
- Apan Mitra. 2013. 'Bioefficacy of some biopesticides against red spider mite, *Oligonychus coffeae* Nietner in tea' as a partial fulfillment of the requirements for the degree of BSc (Engg.) in Food Engineering & Tea Technology, Shahjalal University of Science & Technology, Sylhet, Bangladesh.
- Punam Meh Zabeen. 2014. 'Studies on quality parameters of different agro types of tea' as a partial fulfillment of the requirements for the degree of BSc (Engg.) in Food Engineering & Tea Technology, Shahjalal University of Science & Technology, Sylhet, Bangladesh.
- Tawhida Islam. 2014. 'Studies on the physiological and biochemical changes in tea leaves and made tea due to pest infestation' as a partial fulfillment of the requirements for the degree of BSc (Engg.) in Food Engineering & Tea Technology, Shahjalal University of Science & Technology, Sylhet, Bangladesh.
- Naima Sultana. 2014. 'Studies on the physiological and biochemical changes in tea leaves and made tea due to thrips infestation' as a partial fulfillment of the requirements for the degree of BSc (Engg.) in Food Engineering & Tea Technology, Shahjalal University of Science & Technology, Sylhet, Bangladesh.
- M.Y.H. Akandha. 2014. 'In vitro and in vivo screening of some commonly used miticides against red spider mite, *Oligonychus coffeae* Nietner infesting tea' as a partial fulfillment of the requirements for the degree of BSc (Engg.) in Food Engineering & Tea Technology, Shahjalal University of Science & Technology, Sylhet, Bangladesh.
- Pranti Barua. 2017. 'Comparative study of quality parameters among handmade tea, semi-manual tea and factory processed tea' as a partial fulfillment of the requirements for the degree of BSc (Engg.) in Food Engineering & Tea Technology, Shahjalal University of Science & Technology, Sylhet, Bangladesh.
- Rayhan Uddin. 2017. 'Studies on biochemical and quality parameters of tea in different ages of tea bushes' as a partial fulfillment of the requirements for the degree of BSc (Engg.) in Food Engineering & Tea Technology, Shahjalal University of Science & Technology, Sylhet, Bangladesh.
- Sakib Hossain. 2017. 'Variation in biochemical composition and quality of black tea in different topographic position' as a partial fulfillment of the requirements for the degree of BSc (Engg.) in Food Engineering & Tea Technology, Shahjalal University of Science & Technology, Sylhet, Bangladesh.

- Md. Yasin. 2018. 'Studies on biochemical and quality parameters of BTRI released tea clones' as a partial fulfillment of the requirements for the degree of MSc (Engg.) in Food Engineering & Tea Technology, Shahjalal University of Science & Technology, Sylhet, Bangladesh.
- Sakib Hossain. 2021. 'Study on quality parameters and heavy metal in organic and non-organic black tea' as a partial fulfillment of the requirements for the degree of MSc (Engg.) in Food Engineering & Tea Technology, Shahjalal University of Science & Technology, Sylhet, Bangladesh.
- Md Mahadi Hassan Sifat. 2024. 'Study on the tea pest complex in greater sylhet regions of Bangladesh' as a partial fulfillment of the requirements for the degree of BSc (Engg.) in Food Engineering & Tea Technology, Shahjalal University of Science & Technology, Sylhet, Bangladesh.

#### ***Innovations (10)***

- 'Two Leaves and a Bud' mobile app- Tea information and technology is now at hand
- 'Camellia Open Sky School'- A diverse initiative to create skilled tea growers
- 'IPM Package for Tea'- An eco-friendly approach for safe tea production
- 'Yellow Sticky Trap'- An eco-friendly tool for insect pest management in tea
- 'Tea24'- e respiratory with the motto 'Tea information & technology is always'
- 'Somotoler Cha Shilpo' mobile app- Tea information on the tea industry of plains
- 'Teasoft'- Software/ App- Smart tea management system
- 'IPM Innovation Lab'- Smart tea pest management for sustainable & safe tea production
- 'Climate-Smart Tea'- Adaptation strategies of climate change for sustainable tea production
- 'PestiScan'-AI powered diagnostic tool for detecting pesticide in tea leaves (Proposed)

#### ***Computer Literacy***

- Windows Operating System, Computer Fundamentals, Microsoft Word, Microsoft Excel, Microsoft Power Point, MSTAT, SPSS, Website developer & admin of [www.btri.gov.bd](http://www.btri.gov.bd), [www.btckaschool.com](http://www.btckaschool.com), [www.tea24.weebly.com](http://www.tea24.weebly.com), [www.btriapps.gov.bd](http://www.btriapps.gov.bd).

#### ***Technology Developed (02)***

- "Development of Integrated Pest Management (IPM) Strategy for Sustainable Tea Production" (ID-81) as one of "The 100 Agro Technologies Atlas" published by BARC. p. 127.
- "Development of Appropriate Adaptation Strategies to Mitigate Climate Change for Sustainable and Quality Tea Production" funded by Bangladesh Climate Change Trust, Ministry of Environment, Forestry & Climate Change of the Government of the People's Republic of Bangladesh.

#### ***Awarded (09)***

- Awarded a Scholarship by the Colombo Plan Scheme for PGD in Tea Plantation Management in India during 2009-2010.
- Awarded a Scholarship and 'Tea Master' Certificate by the China Foreign Aid Scheme for Pollution Free Tea Production Technology in China in 2016.
- Awarded "International Scientist Awards 2021" on Engineering, Science & Medicine as the 'Outstanding scientists' category organized by VDGOD Professional Association at Trivandrum, India in 2021.

- Awarded “Best Monogram Winner” for "Camellia Open Sky School" by the Honorable Chairman, Bangladesh Tea Board in 2021.
- Achieved 3<sup>rd</sup> place in Panchagarh district to mark the transition from least developed country to developing country on the golden jubilee of independence by Deputy Commissioner, Panchagarh during March 2021.
- Achieved "National Integrity Award 2022-2023" in appreciation of my outstanding commitment to integrity in my official job at Bangladesh Tea Research Institute (BTRI) during 2023.
- Achieved "World Scientists Rankings 2024" by the AD (Alper-Doger) Scientific Index, University of Health Sciences, Ankara, Turkey (#1 in Bangladesh Tea Research Institute, #1701 in Bangladesh, #169,117 in Asia & #811,744 in the World).
- Achieved "Best Innovation Award 2024" in recognition of the innovation of “Duti Pata Ekti Kuri” mobile apps on the occasion of ‘Innovation Showcasing 2024’ at Bangladesh Tea Research Institute (BTRI).
- Awarded a Scholarship by Bangladesh Climate Change Trust for a “Postdoctoral Fellow” at Sher-e-Bangla Agricultural University, Dhaka during 2024-2025.

#### ***Country Visited (03)***

- India (02)
- China
- Indonesia

#### ***Committee Member/Focal Point (18)***

- Head, Entomology Division, Bangladesh Tea Research Institute (BTRI)
- Convener, Citizen Charter Team, Bangladesh Tea Research Institute (BTRI)
- Convener, Website Update Team, Bangladesh Tea Research Institute (BTRI)
- Member, Innovation Team, Bangladesh Tea Research Institute (BTRI)
- Member, APA Team, Bangladesh Tea Research Institute (BTRI)
- Member, ICT Team, BTRI Part, Bangladesh Agricultural Research Council (BARC)
- Member, Executive Committee, Tea Professional Welfare Society, Bangladesh
- Member, Pesticide Technical Advisory Sub Committee (PTASC), Ministry of Agriculture
- Member, Research Sub Committee, Bangladesh Tea Research Institute
- Member, Managing Committee, Bangladesh Tea Research Institute High School
- Focal Point, Climate Change Cell, Directorate of Environment
- Focal Point, Electronic Compendium, Bangladesh Agricultural Research Council (BARC)
- Focal Point, Agricultural Research Management Information System (ARMIS), Bangladesh Agricultural Research Council (BARC)
- Focal Point, Comprehensive Policy Plan for NARS, Ministry of Agriculture
- Focal Point, National Web Portal of BTRI, a2i program, Prime Minister Office
- Focal Point & Member Secretary, Planning & Evaluation Cell (BTRI), Bangladesh Agricultural Research Council (BARC)
- Focal Point, BTRI Part, Integrated Digital Service Delivery Platform, Ministry of Commerce
- Member, District Committee, Control of the Uses of Pesticides in the Agricultural Sector, MoFL

#### **Language Proficiency**

Language	Reading	Writing	Speaking
• Bangla	Excellent	Excellent	Excellent
• English	Excellent	Excellent	Excellent

### ***Association with Professional Societies/Institutions (11)***

•	Krishibid Institution Bangladesh (ID-019813754) ( <a href="http://www.kib.org.bd">http://www.kib.org.bd</a> )
•	Bangladesh Entomological Society (ID-708) ( <a href="https://www.bangladeshes.org">https://www.bangladeshes.org</a> )
•	Weed Science Society of Bangladesh (ID-084) ( <a href="https://www.wssb-bjws.org">https://www.wssb-bjws.org</a> )
•	Entomological Society of America (ID-68405) ( <a href="https://www.entsoc.org">https://www.entsoc.org</a> )
•	The Acarological Society of Iran ( <a href="http://www.acarology.ir">http://www.acarology.ir</a> )
•	Zoological Society of Bangladesh (ID-1206) ( <a href="http://www.zsbd.org.bd">http://www.zsbd.org.bd</a> )
•	Bangladesh Botanical Society (ID-A 543) ( <a href="http://www.bdbotsoc.org">http://www.bdbotsoc.org</a> )
•	Bangladesh Association for the Advancement of Science ( <a href="http://www.baasbd.org">http://www.baasbd.org</a> )
•	Asian Council of Science Editors, UAE (ID-24267956) ( <a href="https://www.theacse.com">https://www.theacse.com</a> )
•	Global Forum on Food Security and Nutrition, FAO ( <a href="https://www.fao.org/fsnforum">https://www.fao.org/fsnforum</a> )
•	Tea Professional Welfare Society, Bangladesh

### **Personal Details**

Father's Name	: Late Mohammad Asim Uddin
Mother's Name	: Late Mrs. Komola Begum
Spouse's Name	: Shamima Nasrin Khan (Happy), MA, B.Ed.
Daughter's Name	: Sarah Binte Shameem & Sabah Binte Shameem
Date of Birth	: July 01, 1978
Age	: 47 years+
Place of Birth	: Ghatail, Tangail
Marital Status	: Married
Blood Group	: 'B' Positive
Nationality	: Bangladeshi
Religion	: Islam
Interest	: Innovative something
Permanent Address	: House No. 5/30, Ghatail Uttar Para, Ghatail, Tangail, Bangladesh
Current Location	: Bangladesh Tea Research Institute, Sreemangal, Moulvibazar

### **References**

<b><i>Reference 01</i></b>	<b><i>Reference 02</i></b>
Prof. Dr. Md. Shahjahan Department of Entomology Bangladesh Agricultural University Mymensingh-2202, Bangladesh Phone: +88(091)55695-97/2728 Mobile: +8801711022903 E-mail: shah_ent_bau@yahoo.com	Prof. Dr. Md. Mozammel Hoque Department of Food Engineering & Tea Technology Shahjalal University of Science & Technology Sylhet-3114, Bangladesh Phone: +880821713491 (Ext. 242) Mobile: +8801715492961 E-mail: hoquemmm@gmail.com
<b><i>Reference 03</i></b>	<b><i>Reference 04</i></b>
Prof. Dr. A.V.K. Iyengar Director Kothari Agricultural Management Centre Coonoor, The Nilgiris, Tamil Nadu, India Phone: +914232230209 (Office) Mobile: +9443020158 E-mail: pmacnr@gmail.com	Prof. Dr. Mirza Hasanuzzaman Department of Agronomy Sher-e-Bangla Agricultural University Sher-e-Bangla Nagar, Dhaka-1207, Bangladesh Phone: +88029144272 (Office) Mobile: +8801716587711 E-mail: mhzsauag@yahoo.com

Signature

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Dr. Mohammad Shameem Al Mamun