



CURRICULUM VITAE

Md. Shariful Islam

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Highlights of Qualifications

- Working as a faculty member in the Faculty of Agriculture, Patuakhali Science and Technology University, Bangladesh
- Explored research on remediation of heavy metals from the environment, abiotic stress on environment, water quality and food safety
- Have some advance level training and experienced with instrumental chemical analysis

Education

- Post-doc training in Climate Smart Agriculture, Wageningen University & Research, The Netherlands, 2022.
- PhD in Environmental Science, Hokkaido University, Sapporo, Japan, 2014
Thesis: Phytofiltration of Arsenic and Cadmium from the Water Environment using *Micranthemum umbrosum*
- MS in Agricultural Chemistry, Bangladesh Agricultural University, Mymensingh, Bangladesh, 2006
Thesis: Phytoremediation of Artificially and Naturally Arsenic Contaminated Soils by Selected Weeds
- B. Sc. Ag. (Hons.) (Bachelor of Science in Agriculture), Bangladesh Agricultural University, Mymensingh, Bangladesh, 2003

Professional Experiences

- **Professor**, Department of Agricultural Chemistry, Patuakhali Science and Technology University, Dumki, Patuakhali, Bangladesh. (September 2018 to date)
Responsibilities-
Teaching undergraduate and graduate student, conducting research, handling research project, supervising MS and PhD student
- **Associate Professor**, Department of Agricultural Chemistry, Patuakhali Science and Technology University, Dumki, Patuakhali, Bangladesh. (September 2014 to 2018)

Responsibilities-

Teaching undergraduate and graduate student, conducting research, handling research project, supervising MS student

- **Assistant Professor:** Department of Agricultural Chemistry, Patuakhali Science and Technology University, Dumki, Patuakhali, Bangladesh. (October 2008 to September 2014)

Responsibilities-

Teaching undergraduate and graduate student, conducting research, handling research project

- **Lecturer:** Department of Agricultural Chemistry, Patuakhali Science and Technology University, Dumki, Patuakhali, Bangladesh. (October 2006 to October 2008)

Responsibilities-

Teaching undergraduate students and conducting research

- **Chairman,** Department of Agricultural Chemistry, Patuakhali Science & Technology University, Dumki, Patuakhali, Bangladesh. (25.7.2022 to 24.7.2024)

Responsibilities-

Academic and administrative management of departmental activities, post graduate student admission, monitoring and supervision of student co-curricular activities, staff management, laboratory management, procurement, office and financial management etc.

Research Interest

Environmental toxicology and phytoremediation, soil and water quality.

Short courses and trainings:

1. **“Data analysis using R program”**- a training from 15-26 May, 2024, organized by Institutional Quality Assurance Cell (IQAC), Patuakhali Science & Technology University, Dumki, Patuakhali, Bangladesh.
2. **“Microbial water quality: Analysis of abundance of bacteria in fishpond water and identification of typical water pollution indicator species (Coliform bacteria, *E. coli*, *Salmonella* spp. and *Vibrio* spp.), using classical cultivation methods and modern molecular approaches”**- a workshop from 18-22 February, 2018, funded by DANIDA and organized by Patuakhali Science & Technology University, Bangladesh and University of Copenhagen, Denmark under BANGFISH Project.
3. Administrative and financial management for university teachers and officers, 22-23rd Sept. and 13-14th Oct., 2017, Patuakhali Science & Technology University, Dumki, Patuakhali, Bangladesh.
4. Curriculum development for the faculty of agriculture, 18-20 Feb., 2016, Graduate training institute (GTI) and Institutional quality assurance cell (IQAC), Patuakhali Science & Technology University, Dumki, Patuakhali, Bangladesh.
5. 2013 EES Hokkaido University-The 2nd Field science short course in Alaska, 15-28th Oct, 2013, University of Alaska Fairbanks, Alaska, USA.

6. IFES-GCOE Laboratory short course on Environmental Materials Science, 16-26th Jan, 2012, Hokkaido University, Sapporo, Japan.
7. IFES-GCOE Laboratory short course on Environmental Biology, 7-16th Dec, 2011, Hokkaido University, Sapporo, Japan.
8. Administrative and financial management for PSTU teachers, 21-23rd and 29-30th Oct., 2010, Patuakhali Science & Technology University, Dumki, Patuakhali, Bangladesh.
9. ‘Training of Trainers (ToT) on Comprehensive Disaster Management’ from 16th to 20th August, 2009, arranged jointly by Comprehensive Disaster Management Program (CDMP) and Rural Development Academy (RDA), Bogra, Bangladesh.
10. Foundation training for university teachers, 14 Feb.-08 Apr., 2009, Graduate training institute (GTI), Bangladesh Agricultural University, Mymensingh, Bangladesh.

Teaching: Subjects taught at both undergraduate and graduate classes since 2006-

- Physical and Analytical Chemistry (Basic)
- Organic Chemistry (Basic)
- Agro Analytical Chemistry
- Chemistry and Technology of Agricultural Products
- Environmental Chemistry
- Water Science
- Instrumental Methods of Analysis
- Waste Management and Clean Technology
- Phytoecological Chemistry

Awards:

1. “Matsuno Environment Science Award 2017” Hokkaido University, Sapporo, Japan.
2. Best Poster Presentation Awards, 5th International congress on arsenic in the environment, Buenos Aires, Argentina, 11-16th May, 2014.
3. Special outstanding Presentation Award, The Fifth Hokkaido University sustainability Research Poster Contest, Hokkaido University, Sapporo, Japan, November 8, 2013.
4. Outstanding Presentation Award, The First Hokkaido University sustainability Research Global Poster Contest, Hokkaido University, Sapporo, Japan, December 11, 2013.
5. Research Fellowship awarded from Ministry of Science, Information, Communications and Technology (MSICT), Government of People’s Republic of Bangladesh, Jan-June, 2006.

Research Experiences (including projects and grants)

Year	Title of Research Project	Granting Agency	Responsibility
2022-2024	Adaptation of <i>Sorjan</i> technology for sustainable agricultural production in salinity prone coastal areas for food and nutritional security	Ministry of Planning	Principal Investigator
2023-	Health hazards analysis and quality assessment in irrigation and drinking	University Grants Commission (UGC),	Project

2024	water at coastal area of Patuakhali	Bangladesh	Director
2021-2022	Chemically modified biochar derived nanoparticles for desalination of saline water	Ministry of Science and Technology, Government of the People's Republic of Bangladesh (GoB)	Principal Investigator
2020-2021	Salinity tolerance dynamics in different crop varieties under controlled condition	Nuffic, Netherlands (OKP-BGD-103561)	Sub-project Principal Investigator
2020-2021	Extraction of natural organic pigments from plant sample for healthy and safe use in agro-products	UGC, Bangladesh	Project Director
2020-2021	Agricultural quality and health hazards analysis of surface and ground water at Khagrachhari Hill Tracts	Patuakhali Science and Technology University Dumki, Patuakhali.	Principal Investigator
2019-2022	Phytodesalination of saline soil using halophytes for sustainable crop production in salinity prone coastal areas of Bangladesh	Ministry of Education, GoB	Principal Investigator
2019-2020	Potentiality of <i>Mikania micrantha</i> and Rain tree (<i>Samanea saman</i> leaf extract as botanical herbicide for safe crop production	Ministry of Science and Technology, GoB	Principal Investigator
2018-2019	Investigating the minerals of cardiovascular importance in drinking water and food in salinity affected southwest coastal Bangladesh	The Wellcome Trust, UK	Co-Investigator
2017-2018	Screening of salt tolerant indigenous vegetable for nutritional security in coastal regions of Bangladesh	Ministry of Science and Technology, GoB	Principal Investigator
2017-2019	Inhibition of arsenic accumulation in rice with phytofortification of microelements for nutritional safety	USAID and Government of Bangladesh	Principal Investigator
2017-2018	Nutritional assessment of different guava varieties for quality agro-products production	Patuakhali Science and Technology University Dumki, Patuakhali.	Principal Investigator
2016-2017	Potential use of naturally grown halophytes for phytodesalination of salt affected soils in the coastal region of Bangladesh	International Foundation for Science (IFS), Sweden	Chief Investigator

2016-2017	Nutritional balance in saline-sodic soil for sustainable sunflower production	Ministry of Science and Technology, GoB	Principal Investigator
2016-2017	Biochar for Desalination of Saline Water	Patuakhali Science and Technology University Dumki, Patuakhali.	Principal Investigator
2014-2015	Phytodesalination of Saline Water for Sustainable Crop Production in Coastal Region of Bangladesh	Patuakhali Science and Technology University Dumki, Patuakhali.	Principal Investigator
2011-2014	Phytofiltration of arsenic and cadmium from water environment using <i>Micranthemum umbrosum</i>	Faculty of Environmental Earth Science, Hokkaido University, Japan	Ph.D. Fellow
2009-2010	Assessment of Nutritional Quality of Immature Seed of Palmyra Palm (<i>Borassus flabellifer</i> L.) for Production of Quality Agro Products	Patuakhali Science and Technology University Dumki, Patuakhali.	Principal Investigator
2009-2010	Quality Assessment of Surface and Groundwater Resources of Dumki Upazilla in Bangladesh for Irrigation and Drinking	Patuakhali Science and Technology University Dumki, Patuakhali.	Associate Investigator
2005-2006	Phytoremediation of arsenic from arsenic contaminated soils by using some selected weeds	Ministry of Science and Technology, GoB	NST fellow (MS program)

Google Scholar ID: Md. Shariful Islam (Citation: 564 as of 1st August, 2024)

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i10-index: 13

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Peer reviewed journal publications:

1. **Islam, M. S.**, Rahman, M. S., Khatun, M., Hajibeigy, M., Uddin, M. N., & Khatun, M. (2024). Extraction of organic pigments from tomato (*Solanum lycopersicum* L.), turmeric (*Curcuma longa* L.) and red amaranth (*Amaranthus tricolor* L.) for safe use in agro-products. *Heliyon*, e25278. <https://doi.org/10.1016/j.heliyon.2024.e25278>
2. **Islam, M.S.**, Tripura, U.J., Islam, M.S., Islam A.R.M.T., Al Zihad, S.M. R., Khatun, M.M., Hasan, M.M., Lubna, T.Y. 2024. Appraising water resources for irrigation and spatial analysis based on fuzzy logic model in the tribal-prone areas of

- Bangladesh. *Environmental Monitoring and Assessment*, **196**, 641.
<https://doi.org/10.1007/s10661-024-12799-5>
3. Chakma, S., Karim, M.R., Kabir, M.A., Saha, N., Eftakhar, M.R., Hoque, M.S. and **Islam, M.S.**, 2024. Nutritional compositions of native mudskipper (*Apocryptes bato*) fish influenced by sex: a first report on nutritional profiling of mudskipper in Bangladesh. *Journal of Agriculture and Food Research*, 16, p.101191.
<https://doi.org/10.1016/j.jafr.2024.101191>
 4. Sumi, K. R., Sharker, M. R., Rubel, M., & **Islam, M. S.** (2023). Nutritional composition of available freshwater fish species from homestead ponds of Patuakhali, Bangladesh. *Food Chemistry Advances*, 3, 100454.
 5. **Islam M.S.**, Haque K.A., Jahan N., Atikullah M., Uddin M.N., Naser A.M., Faruk-E-Azam A.K.M., Islam M.S. 2022. Soil salinity mitigation by naturally grown halophytes in seawater affected coastal Bangladesh. *International Journal of Environmental Science and Technology*. **19**, 11013–11022. <https://doi.org/10.1007/s13762-022-03912-7>
 6. **Islam, M.S.**, Akter, R., Rahman, M.M., Kurasaki, M. (2022). Phytoremediation: Background, Principle, and Application, Plant Species Used for Phytoremediation. In: Tanaka, S., Kurasaki, M., Morikawa, M., Kamiya, Y. (eds) *Design of Materials and Technologies for Environmental Remediation. The Handbook of Environmental Chemistry*, vol 115. Springer, Singapore. https://doi.org/10.1007/698_2021_831
 7. Rahman M., Islam M., Doza S., Naser A.M., Shoab A.K., Rosenbaum J., **Islam M.S.**, Unicomb L., Thomas F. Clasen, Ercumen A. 2022. Higher helminth ova counts and incomplete decomposition in sand-enveloped latrine pits in a coastal sub-district of Bangladesh. *PLOS Neglected Tropical Diseases* *PLOS Neglected Tropical Diseases* 16(6): e0010495. <https://doi.org/10.1371/journal.pntd.0010495>
 8. **Islam, Md. Shariful**, Basri, Rabeya, Rahman, Md. Sharifur, Uddin, Md. Nizam, Islam, Md. Shahidul and Hossain, Shaikh Abdullah Al Mamun. 2022. Nutritional Assessment of Guava for Quality Jelly Production. *Malaysian Journal of Halal Research*, 5(1):24-32.
<https://doi.org/10.2478/mjhr-2022-0004>
 9. Mia S., Anwar M. P., **Islam M. S.**, Karim S. M. R., Asaduzzaman M., Bormon S., Ali M. H., Billah M. M., Ahammed M. M. and Gathala M. K. 2021. Education and research of weed science in Bangladesh: present status and directions for improvements, *Bangladesh Journal of Weed Science*. 7(1&2): 66-84.
 10. Naser A.M., Rahman M., Unicomb L., Parvez S.M., **Islam M.S.**, Doza S., Khan G.K., Ahmed K.M., Anand S., Luby S.P., Shamsudduha M., Gribble M.O., Narayan K.M.V.,

- Clasen T.F. 2020. Associations of drinking rainwater with macro-mineral intake and cardiometabolic health: a pooled cohort analysis in Bangladesh, 2016-2019. *NPJ Clean Water*, 3:20 ; <https://doi.org/10.1038/s41545-020-0067-5>
11. **Islam M.S**, Ittafak AM, Uddin MN, Jaman BMH, Shaon SM, 2020, Evaluation of soil macro-nutritional status and yield contributing attributes for sustainable sunflower production in coastal region of Bangladesh, *International Journal of Agricultural Sciences and Veterinary Medicine*, 8(4):42-49.
 12. Uddin MN, Rahman MM, **Islam MS**, Abdullah Al Zabir, M. Wahid-Uz-Zaman. 2020. Arsenic tolerance and assimilation potentiality of jute, kenaf and mesta at early growing stage. *Acta Scientifica Malaysia*, 4(2): 64-70.
 13. Uddin MN, Islam MS, **Islam MS**, Faruk-E-Azam AKM, Abdullah Al Zabir and M. Wahid-Uz-Zaman, Abrar bin Wahid. 2020. Lead Tolerant Dynamics of Kenaf (*Hibiscus cannabinus* L.) and Mesta (*Hibiscus sabdariffa* L.) at Germination Stage. *Tropical Agroecosystems*, 1(2), 2021: 96-100.
 14. **Islam MS**, Khatun M, Uddin MN, Rahman MS, Islam SMA, Saifullah MK, 2021, Evaluation of herbicidal properties of Mikania (*Mikania micrantha* H.B.K) and Rain tree (*Samanea saman* Jacq. Merr.) leaf extract, *Matrix Science Pharma*, 5:89-95.
 15. **Islam M. S.**, Hosen M. M. L., Uddin M. N. 2019. Phytodesalination of saline water by using *Ipomoea aquatica*, *Alternanthera philoxeroides* and *Ludwigia adscendens*. *International Journal of Environmental Science and Technology*, 16(2):965-972. DOI: [10.1007/s13762-018-1705-z](https://doi.org/10.1007/s13762-018-1705-z)
 16. **Islam M. S.**, Sikder M. T., Kurasaki M. 2017. Potential of *Micranthemum umbrosum* for phytofiltration of organic arsenic species from oxic water environment. *International Journal of Environmental Science and Technology*, 14(2):285-290. DOI: [10.1007/s13762-016-1142-9](https://doi.org/10.1007/s13762-016-1142-9)
 17. Islam S. M. A., Yeasmin S., Islam M. S., **Islam M. S.** 2017. Binding ability and adhesion force of organophosphate hydrolase enzyme with soil particles related to the isoelectric point of the enzyme. *Ecotoxicology and Environmental Safety*, 141:85-92. DOI: [http://dx.doi.org/10.1016/j.ecoenv.2017.03.010](https://doi.org/10.1016/j.ecoenv.2017.03.010)
 18. **Islam M. S.** 2017. Arsenic Removal by α , β and γ Cyclodextrin Polymers from Contaminated Water, *Hydrology*. 5(5): 73-76. DOI: [10.11648/j.hyd.20170505.12](https://doi.org/10.11648/j.hyd.20170505.12)
 19. **Islam M.S.**, Sikder M. T. M., Mardjand M. I. D., Permana R. A., Uddin, M. N. 2016. Micronutrients in favorite beverages and radioactivity in food samples associated with

- potential health risk in Hokkaido, Japan. *Journal of Agroforestry and Environment*, 10(1):39-42.
20. **Islam M. S.**, Alom M. S., Uddin M. N., Zabir A. A., Islam M. S., Haque K. A., Islam M. S. A., Hossain S. A.A.M. 2016. Farm Level Pesticides Use in Patuakhali and Comilla Region of Bangladesh and Associated Health Risk. *Journal of Health and Environmental Research*, 2(4):20-26. DOI: [10.11648/j.jher.20160204.11](https://doi.org/10.11648/j.jher.20160204.11)
 21. Zabir A. A., Zaman M. W., Hossen M. Z., Uddin M. N., **Islam M. S.**, Islam M. S. 2016. Spatial Dissemination of Heavy Metals in Soil Adjacent to *Bhaluka* Industrial Area of Bangladesh. *American Journal of Applied Scientific Research*, 2(6):38-47. DOI: [10.11648/j.ajasr.20160206.12](https://doi.org/10.11648/j.ajasr.20160206.12)
 22. Uddin M. N., Zaman M. W., Rahman M. M., **Islam M. S.**, Islam M. S. 2016. Phytoremediation Potentiality of Lead from Contaminated Soils by Fibrous Crop Varieties. *American Journal of Applied Scientific Research*, 2(5):22–28. DOI: [10.11648/j.ajasr.20160205.11](https://doi.org/10.11648/j.ajasr.20160205.11)
 23. **Islam M. S.**, Kurasaki M., Tanaka S. 2016. Arsenic and cadmium removal from water by excised root and shoot of *Micranthemum umbrosum* plant. *Journal of Desalination and Water Purification*, 4:3-7.
 24. Hosen M. M. L., **Islam M. S.**, Uddin M. N., Haque K. A., Islam M. S. 2016. Effect of sodium chloride on growth and development of sodium accumulating halophytes in saline water. *Journal of Environmental Science and Natural Resources*, 9(1):9-15
 25. Islam M. S., **Islam M. S.**, Mamun M. A. H., Islam S. M. A., Eaton D. W. 2016. Total and dissolved metals in the industrial wastewater: A Case study from Dhaka Metropolitan, Bangladesh. *Environmental Nanotechnology, Monitoring and Assessment*, 5:74-80, DOI: [10.1016/j.enmm.2016.04.001](https://doi.org/10.1016/j.enmm.2016.04.001)
 26. Uddin M.N., Wahid-Uz-Zaman M., Rahman M.M., **Islam M.S.**, Islam M.S. 2016. Lead tolerance and accumulation potentiality of jute (*Corchorus capsularis* L.), kenaf (*Hibiscus cannabinus* L.) and mesta (*Hibiscus sabdariffa* L.) at early growing stage. *Journal of Desalination and Water Purification*, 2(1):5-13.
 27. **Islam M. S.**, Saito T., Kurasaki M. 2015. Phytofiltration of arsenic and cadmium using *Micranthemum umbrosum*: Phytotoxicity, uptake kinetics and mechanism. *Ecotoxicology and Environmental Safety*, 112: 193-200.
DOI: <http://dx.doi.org/10.1016/j.ecoenv.2014.11.006>
 28. Sikder M. T., Mihara Y., **Islam M. S.**, Saito T., Tanaka S., Kurasaki M. 2014. Preparation and characterization of chitosan-carboxymethyl- β -cyclodextrin entrapped nano zero-valent

- iron composite for Cu (II) and Cr (IV) removal from wastewater. *Chemical Engineering Journal*, 236: 378-387. DOI: <http://dx.doi.org/10.1016/j.cej.2013.09.093>
29. Sikder M. T., **Islam M. S.**, Kikuchi T., Suzuki J., Saito T., Kurasaki M. 2014. Removal of copper ions from water using epichlorohydrin cross-linked beta-cyclodextrin polymer. *Water Environment Research*, 86 (4):296-304.
DOI: [10.2175/106143013X13807328848054](https://doi.org/10.2175/106143013X13807328848054)
 30. **Islam M. S.**, Kurasaaki M. 2014. Phytofiltration mechanism of arsenic from drinking water using *Micranthemum umbrosum* . One Century Discovery of Arsenicosis in Latin America (1914-2014). Proceedings of the 5th International Congress on Arsenic in the Environment, May 11-16, 2014, Buenos Aires, Argentina, Edt. By Litter I.M., Nicolli H.B., Meichtry M., Quici N., Bundschuh J., Bhattacharya P., Naidu R. April 2014:733-734.
 31. **Islam M. S.**, Ueno Y, Sikder M. T., Kurasaki M. 2013. Phytofiltration of Arsenic and Cadmium from the Water Environment Using *Micranthemum umbrosum* (J.F. Gmel) S.F. Blake as a Hyperaccumulator. *International Journal of Phytoremediation*, 15(10):1010-1021. DOI: [10.1080/15226514.2012.751356](https://doi.org/10.1080/15226514.2012.751356)
 32. **Islam M. S.**, Zaman M .W., Rahman M. M. 2013. Phytoaccumulation of Arsenic from Arsenic Contaminated Soils by *Eichhornia crassipes* L., *Echinochloa crusgalli* L. and *Monochoria hastata* L. in Bangladesh. *International Journal of Environmental Protection*, 3(4):17-27.
 33. Hossain S. A. A. M., Abuyusuf M., **Islam M. S.** 2012. Lives of Major Riverine Populace Concerning Bank Errosion in Bangladesh: A Review. *Journal of Patuakhali Science and Technology University*, 3(2):32-42.
 34. **Islam M. S.**, Uddin M.N., Islam M. S., Kader H. A. 2012. Assessment of Nutritional Quality of Immature Seed of Palmyra Palm (*Borassus flabellifer* L.) for Production of Quality Agro Products. *Journal of Patuakhali Science and Technology University*, 3(1):9-14.
 35. Uddin M.N., **Islam M. S.**, Mamun Z. A. Islam M. S. 2011. Groundwater Quality of Dumki Upazila in Bangladesh for Drinking, Irrigation and Livestock. *Journal of Environmental Science and Natural Resources*, 4(1):39-44.
 36. Uddin M.N., Zaman M .W, Rahman M. M., **Islam M. S.**, Islam M. S. 2011. Microelement pollution in ground water sources of some selected villages of Mymensingh district in Bangladesh. *Journal of Patuakhali Science and Technology University*, 3(1).

37. Zaman M .W, Islam M. S., Rahman M. M., **Islam M. S.**, Uddin M.N. 2010. Vermicomposting of different wastes and its effect on yield of red amaranth. *Journal of Environmental Science and Natural Resources*, **3** (1):191-195.
38. Uddin M.N., **Islam M. S.**, Islam M. S. 2010. Quality Assessment of Surface Water Resources of Dumki Upazila in Bangladesh for Irrigation, Aquaculture and Livestock Consumption. *Journal of Agroforestry and Environment*, **4** (2):81-84.
39. Nizam M. U., **Islam M. S.**, Saleque M. A. 2008. Phosphorous sorption in Salna clay loam soils influenced by phosphatic fertilizers. *International Journal of Sustainable Agricultural Technology*, **4** (1):12-17.
40. Nizam M.U., **Islam M. S.**, Biswas P. 2008. Effect of phosphatic fertilizers on wheat-rice cropping system at calcareous soils of Bangladesh. *International Journal of Sustainable Agricultural Technology*, **4** (1):22-27.
41. Zaman M .W, **Islam M. S.**, Rahman M. M. 2008. Remediation of arsenic contaminated soils by naturally grown weeds. *Journal of Agroforestry and Environment*, **2** (1): 123-126.
42. Nizam M.U., **Islam M. S.**, Hoque M. F. 2008. Effect of super phosphate and diammonium phosphate on the phosphorus adsorption characteristics of sara loam calcareous soils of Bangladesh. *Journal of Subtropical Agricultural Research and Development*, **6** (2):473-478.
43. Howlader S. H., Faruk-E-Azam A. K. M., Maniruzzaman M., **Islam M. S.** 2008. Nitrogen mineralization during incubation of *kuakata* saline soils. *Journal of Subtropical Agricultural Research and Development*, **6** (2):487-489.
44. **Islam M. S.**, Zaman M .W., Rahman M. M. 2007. Effect of arsenic on nutrient uptake in naturally grown arsenic hyperaccumulating weeds. *Bangladesh Journal of Crop Science*, **18** (2): 341-349.

Book

Islam MS and Uddin MN, 2018. Fundamentals of Agricultural Chemistry, Ahan Publications, Dhaka, Bangladesh (ISBN: 978-984-34-5072-2).

Conferences, Seminars and symposiums:

1. Rahman M., Doza S, Naser A.M., Ahmed K. M., Khan G.K.K., Parvez S.M., Ercumen A., **Islam M. S.**, Luby S.P., Clasen T. F., Unicomb L. 2019. Effect of sand barriers around pit latrines on pit content decomposition and helminth ova counts. Planetary Annual Health Meeting, 4-6 September, Stanford University, California, USA.

2. **Islam M. S.** and Kurasaki M. 2014. Phytofiltration potential, uptake kinetics and mechanism of cadmium from drinking water using *Micranthemum umbrosum*. *Just sustainability: Hope for the commons*, 7-9th August, Seattle University, Washington, USA (Poster).
3. **Islam M. S.** and Kurasaki M. 2014. Phytofiltration mechanism of arsenic from drinking water using *Micranthemum umbrosum*. *5th International congress on arsenic in the environment*, Buenos Aires, Argentina, 11-16th May, 2014 (Poster).
4. **Islam M. S.** and Kurasaki M. 2013. Phytofiltration mechanism of cadmium from the water environment using *Micranthemum Umbrosum*. *The 16th SNU-HU Joint symposium on 'The Impact of Aging population on the future of Asia: The experience of Korea and Japan' -Satellite Session: Toward understanding of our Environment*, Seoul National University, Seoul, South Korea, 12-13th December, 2013 (Presentation).
5. **Islam M. S.** and Nzelu C. O., 2013. Sustainability weeks: A future society offering peace of mind for all. *6th World Student Environmental Summit*, University of Luneburg, Germany, 16-20th September, 2013 (Poster).
6. *2nd Student Environmental Symposium on sustainability in Hokkaido University*, Theme: Re-thinking about food consumption sustainability, 10-12 Sept, 2013. Co-hosted by Japan Student Sustainability Network and WSES alumni with Centre for Sustainability Science (CENSUS), Hokkaido University Sustainability Weeks 2013, Hokkaido University, Sapporo, Japan.
7. **Islam M. S.** and Kurasaki M. 2013. Noble approaches for arsenic accumulation and phytofiltration mechanism in urban water using *Micranthemum umbrosum*. *2nd Water Research conference*, Singapore, 20-23rd January, 2013 (Poster).
8. **Islam M. S.**, Ueno Y, Sikder M. T. and Kurasaki M. 2012. Phytofiltration of Arsenic and Cadmium from the water environment using *Micranthemum umbrosum*. *The 23rd Annual Scientific Meeting of the Japan Society for Biomedical Research on Trace Elements*, Tokyo, Japan, 5-6th July, 2012 (Presentation).

Name and addresses of referees:

1. Professor Dr. Masaaki Kurasaki (PhD supervisor)

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3. Abu Mohammed Naser Titu, PhD, MPH, MBBS (Research collaborator)

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4. Professor Md. Nizam Uddin (Professional supervisor)

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