



Curriculum Vitae of Professor Md. Saiful Islam (Ph.D)

Professor **Dr. Md. Saiful Islam** is working in the Department of Soil Science, Patuakhali Science and Technology University (PSTU), Dumki, Patuakhali-8602, Bangladesh. He obtained B.Sc.Ag. (Hon.) and M Sc (Ag) in Soil Science from Bangladesh Agricultural University (BAU), securing **Eight** position in the **First Class** in B.Sc.Ag. (Hon.) and **First** position in the **First Class** in MSc (Ag) in Soil Science in order of merit. In March 1, 2007 he joined as a lecturer of the Department of Soil Science, PSTU, Bangladesh and became as an Assistant and Associate Professor in 2009 and 2014, respectively.

Md. Saiful Islam went to Yokohama National University (YNU), Japan in 2010 with Japanese Government Scholarship (Monbusho), where he obtained his PhD (2014) in Environmental Science under the supervision of Professor Dr. Shigeki Masunaga in the Laboratory of Environmental Risk Management, Graduate School of Environment and Information Sciences, YNU, Japan. His PhD theses were involved in understanding trace metals in different environmental media (soil, sediment, water and foodstuffs) where ecological and health risks were assessed based on the concentrations of trace metals and exposure to humans. Dr. Islam has awarded as “**Visiting Fellowship Award**” by Japan Student Services Organization (**JASSO**) from the government of Japan (October, 2016–January, 2017) at Yokohama National University (YNU), Japan. He has also awarded as postdoctoral fellowship (2018–2020) from the Japan Society for the Promotion of Science (**JSPS**) to work on ‘**Epigenetic and post-transcriptional regulation of nutrient transport**’ at the University of Tokyo, Japan.

Professor Dr. Islam got many prizes and medals for his outstanding academic and research accomplishments in fundamental understanding of toxic elements and environmental chemistry, including **Bangladesh Academy of Science (BAS) Gold**

Medal Award, 2015 under Biological Science, the **Young Scientist Research Award (2013-2014)** from Yokohama National University, Japan, **Gold Medal Award** for young scientist from Institute for Global Environmental Strategies (IGES), Yokohama, Japan (2014), **Merit Award** (2010) from Bangladesh Agricultural University (BAU), and **Prof. A. Karim Memorial Award** in 2007 from BAU. He published more than 90 research papers in national and international peer-reviewed journals and books series. Most of his research contributions have been published in some world-leading international journals such as *Journal of Agricultural and Food Chemistry*, *Science of the Total Environment*, *Ecological Indicators*, *Ecotoxicology and Environmental Safety*, *Chemosphere*, *Water Research*, *Journal of Water and Environmental Technology*, *Food and Chemical Composition*, *Human and Ecological Risk Assessment: An International Journal*, *Geochemical Exploration*, *Archives of Environmental Contamination and Toxicology*, *Environmental Earth Science*, *Environmental Monitoring and Assessment*, *Food additives and Contaminants: Part A*, *Environmental Toxicology and Pharmacology*, *International Food Research Journal*, *Soil and Sediment Contamination: An International Journal*, *Environmental Science and Pollution Research*, *Stochastic Environmental Research and Risk Assessment*, *Archives of Environmental and Occupational Health*, *Pedosphere*, *Environmental Nanotechnology, Monitoring and Management* and so on. He presented research findings in many international conferences/symposia in USA, Canada, Japan, Philippines, Malaysia, and Madagascar.

Professor Dr. Islam's research interests are epigenetic and post-transcriptional regulation of nutrient transport in plants, development of metals resistant plant varieties and identification of arsenic detoxification mechanism in rice plants, concentrated biogeochemical cycling of phosphorous (P) and trace metals in soil, humic acid modified nano-hydroxyapatite and vanadium (V)-doped birnessites (nanotechnology) for trace metals scavenging from the environment, in trace metals especially environmental toxicology, emerging pollutants in the environment and sustainable development, Chemical speciation and bioavailability of trace metals, organic pollutants and various toxic chemicals in the environment for sustainable management, human health and ecological risk assessment. Dr. Islam is supervising a good number of MS

students, and actively involved in many professional networks/organizations at home and abroad. Over the years, he has established research collaborations with many scientists in Japan, UK, Germany, Australia, Netherlands, South Korea, USA and Canada.

Contact Details

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Date of Birth and Nationality

8 September, 1981 and Bangladeshi by birth
(National ID: 1012728238115; Passport Number: BF0303836)

Area of Specialization and Research Interests

- Soil Science
- Molecular biology
- Plant nutrition
- Environmental Chemistry
- Bioavailability of trace metals and organic pollutants.

Education

Post doc (JSPS) (2018-2020), Tokyo University, Japan.
Post doc (JASSO) (2016-2017), Yokohama National University (YNU), Japan.
Ph D in Environmental Science (**Grade A, Excellent**) (**2014**), Yokohama National University (YNU), Japan.
M Sc (Ag) in Soil Science (**First Class First**) (**2007**), Bangladesh Agricultural University (BAU), Bangladesh.
B Sc Agriculture (**First Class Eight**) (**2004**), Bangladesh Agricultural University (BAU), Bangladesh.
H S C (Science) (**First Division***) (**1999**), Rajshahi Board, Bangladesh.
S S C (Science) (**First Division***) (**1997**), Rajshahi Board, Bangladesh.

Professional experience

Professor (Soil Science, PSTU)	09/2018 –to date
Associate Professor (Soil Science, PSTU)	09/2014 –09/2018
Assistant Professor (Soil Science, PSTU)	03/2009 –9/2014
Lecturer (Soil Science, PSTU)	03/2007 –2/2009

Teaching experience

Undergraduate: Fundamentals of Soil Sciences, Soil Fertility and Microbiology, Soil Survey, Classification and Conservation, Soil Physics and Chemistry, Soil Nutrient Management.

Graduate: Advanced Soil Chemistry, Advanced Plant Nutrition, Soil Pollution and Remediation, Soil, Plant and Water Analysis, Soil Degradation and Conservation, Soil Fertility and Management, Advanced Soil Survey, Classification and Conservation, Soils of Bangladesh and Design of Agricultural Experiment.

Major Technical skills

- ✓ Experienced in using atomic absorption spectrometer (AAS), inductively coupled plasma mass spectrometry (ICP-MS) and high performance liquid chromatography (HPLC) for chemical analysis;
- ✓ Experienced in using capillary electrophoresis for the measurement of nitrate.
- ✓ Experienced in using qRT-PCR for the analysis of DNA from plant samples.
- ✓ Solid and liquid waste characterization studies for different chemicals as well as heavy metals and metalloids;
- ✓ Experienced in using common molecular techniques (PCR, electrophoresis, DNA sequencing and bioinformatics analyses) required for microbiome analysis.
- ✓ Expert is developing bioassay methods for testing activities of natural and environmental chemical compounds toward various cells.
- ✓ Proficient in Microsoft Office Applications (MS Word, Excel, PowerPoint) and SPSS software; Proficient in data processing and interpretation of analytical results.

Recognition and Merit Awards

- ✓ **Japan Society for the Promotion of Science (JSPS) Postdoctoral Fellowship Award** (2018–2020) from the University of Tokyo, Japan.
- ✓ **Bangladesh Academy of Science (BAS) gold Medal Award 2015** under Biological Science (09, July, 2017) Government of the Peoples Republic of Bangladesh.
- ✓ **Visiting Fellowship Award by JASSO** from the government of Japan (October, 2016 –January, 2017) at Yokohama National University (YNU), **Japan**
- ✓ Awarded as the **Best Research Young Scientist 2014** by the Yokohama National University (YNU), **Japan** for outstanding research discoveries on the removal techniques of trace metals from industrial waste/sludge during Ph D studies.
- ✓ Awarded 6 months long **Foreign Researcher Fellowship (2010-2011)** from **Sustainable Living with the Environmental Risk (SLER) program of YNU,**

Japan to work on the assessment of various environmental risk with sustainable management.

- ✓ Won the **Best Presenter Gold Medal Award (2014)** from the Institute for Global Environmental Strategies (IGES), Yokohama, **Japan**.
- ✓ Selected for the **UNDP Young Scientist Award 2012** for Participating in the sustainable development and environmental management Symposium and Workshop, 20 October, -10 November 2012, University of Antananarivo, **Madagascar**.
- ✓ Won the **Japanese Government Scholarship (Monbukagakusho) (2010-2014)** for Ph D Study at Yokohama National University, **Japan**.
- ✓ **Merit Award** from the Vice Chancellor of BAU in 2010 for outstanding results in Masters of Science (Ag) in Soil Science in 2007.
- ✓ Awarded **Prof. Dr. Abdul Karim Memorial Prize** in 2008, Bangladesh Agricultural University, Bangladesh (BAU) for Securing **First Position in the First Class** in Masters of Science (Ag) in Soil Science in 2007.

List of Publications

Md. Saiful Islam is an author or co-author of more than 70 research publications, review, and chapter in books spanning the areas of environmental chemistry, interactions of nutrients/toxic elements with the soil and plants, sediment chemistry, metal contamination to foods, and e-learning. Some of his important publications are listed below: (**Citation of my articles: 1234, h-index: 26 and i10-index: 29**)

2019

01. Pandey LK, Park J, Son DH, Kim W, **Islam, MS**, Choi S, Lee H, Han T. 2019. Assessment of metal contamination in water and sediments from major rivers in South Korea from 2008 to 2015. *Science of the Total Environment*, 651, 323–333. (**The Netherlands**).
02. Habibullah-Al-Mamun, M., Ahmed, M.K., Islam, M.S., Hossain A, Tokumura, M., Masunaga, S. 2019. Polychlorinated biphenyls (PCBs) in commonly consumed seafood from the coastal area of Bangladesh: occurrence, distribution, and human health implications. *Environmental Science and Pollution Research*, 26, 1355–1369. (**The Netherlands**).
03. Proshad, R., Kormoker, T, **Islam, MS**, 2019. Distribution, source identification, ecological and health risks of heavy metals in surface sediments of the Rupsa River, Bangladesh. *TOXIN REVIEWS* (<https://doi.org/10.1080/15569543.2018.1564143>). (**USA**).
04. Proshad, R., Kormoker, T, **Islam, MS**, Chandra, K., 2019. Potential health risk of heavy metals via consumption of rice and vegetables grown in the industrial areas of Bangladesh. *Human and Ecological Risk Assessment, an international journal*, DOI:

<https://doi.org/10.1080/10807039.2018.1546114> (USA).

05. **Islam, MS**, 2019. Sensing and uptake of nitrogen in rice plant: a molecular view. *Rice Science*. RiceSci-2018-0226.R1 (Accepted) (China).
06. Al-Mamun MH, Ahmed MK, **Islam MS**, Tokumura S, Shigeki M, 2019. Occurrence, distribution and possible sources of polychlorinated biphenyls (PCBs) in the surface water from the Bay of Bengal coast of Bangladesh. *Ecotoxicology and Environmental Safety* 167:450-458. (The Netherlands)
07. Al-Mamun MH, Ahmed MK, **Islam MS**, Tokumura S, Shigeki M, 2018. Seasonal-spatial distributions, congener profile, and risk assessment of polychlorinated biphenyls (PCBS) in the surficial sediments from the coastal area of Bangladesh. *Soil and Sediment Contamination*. 28, 28-50 (USA)

2018

08. Sharma, AC, Proshad, R., Kormoker, T, **Islam, MS**, Chandra, K., 2018. A review on aflatoxins in stored grain food, their sources, mechanisms and possible health hazard. *Archives of Agriculture and Environmental Science* 3(4): 416-423 (India).
09. Proshad, R., Kormoker, T, **Islam, MS**, Hanif, MA, Chandra, K., 2018. Chronic exposure assessment of toxic elements from agricultural soils around the industrial areas of Tangail district, Bangladesh. *Archives of Agriculture and Environmental Science* 3(4): 317-336 (India).
10. Sarkar, MNI, Hossin, MA, Wu, M, Monirul AGM, **Islam MS.**, 2018. Role of climate smart agriculture in promoting sustainable agriculture. *African Journal of Agricultural Research*. Accepted (Africa).
11. Proshad, R., Kormoker, T, **Islam, MS**, 2018. Potential health risk of heavy metals via consumption of rice and vegetables grown in the industrial areas of Bangladesh. *Human and Ecological Risk Assessment, an international journal*, DOI: 10.1080/10807039.2018.1546114 (USA).
12. Al-Mamun MH, Ahmed MK, **Islam MS**, Tokumura S, Shigeki M, 2018. Distribution of polycyclic aromatic hydrocarbons (PAHs) in commonly consumed seafood from coastal areas of Bangladesh and associated human health implications. *Environmental Geochemistry and Health*. DOI: 10.1007/s10653-018-0202-0. (The Netherlands)
13. **Islam, MS**, Proshad, R., Haque, MA, Hoque, MF, Hossin, MS., Sarker, MNI, 2018. Assessment of heavy metals in foods around the industrial areas: Health hazard inference in Bangladesh. *Geocarto International*, DOI: 10.1080/10106049.2018.1516246 (UK)
14. Proshad, R., **Islam, MS**, Kormoker, T, Masud, MEM., Ali, MM., Ali, MM., 2018.

- Assessment of toxic metals contamination with ecological risk of surface water and sediment of Korotoa river in Bangladesh. *International Journal of Advanced Geosciences*, 6 (2), 214-221. (USA)
15. Islam, R, Kumar, S, Rahman, A, Karmoker, J, Ali, S, Islam, S and **Islam, MS**, 2018. Trace metals concentration in vegetables of a sub-urban industrial area of Bangladesh and associated health risk assessment. *AIMS Environmental Science*, 5(3): 130–142. (USA)
 16. **Islam, MS**, Kormoker, T, Ali, MM and Proshad, R., 2018. Ecological Risk Analysis of Heavy Metals Toxicity from Agricultural Soils in the Industrial Areas of Tangail District, Bangladesh. *SF Journal of Environmental and Earth Science*, 1 (2), 1-9. (USA)
 17. Haque, MA, Jahiruddin, M., **Islam, MS**, Rahman, MM, Saleque, MA, 2018. Effect of bioslurry on the yield of wheat and rice in the wheat-rice cropping system. *Agricultural Research*, DOI 10.1007/s40003-018-0333-7. (The Netherlands)
 18. **Islam, MS**, Khanam, M.S., Sarker, NI, 2018. Health risk assessment of metals transfer from soil to the edible part of some vegetables grown in Patuakhali province of Bangladesh. *Archives of Agriculture and Environmental Science* 3(2): 180-186. (The Netherlands)
 19. Proshad, R., **Islam, MS**, Kormoker, T., 2018. Assessment of heavy metals with ecological risk of soils in the industrial vicinity of Tangail district, Bangladesh. *International Journal of Advanced Geosciences*, 6 (1), 108–116. (USA)
 20. **Islam, MS**, 2018. Heavy metals in meat with health implications in Bangladesh. *SDRP Journal of Food Science & Technology*, 2 (2), 218–227. (India)
 21. Hoque, M.F., Rashid, M.H., Islam, M.R., Saleque, M.A., **Islam, MS**, 2018. Phosphorus sorption and saturation in the Ganges Tidal Floodplain soils of Bangladesh. *Sains Malaysiana* 47 (1), 67–76 (Malaysia)
 22. Kumar, T, Haque, MA, **Islam, MS**, Hoque, MF, Jodder, R, 2018. Effect of polythene mulch on growth and yield of sunflower (*Helianthus Annuus*). *Archives of Crop Science*, (crop-science_UZ36453644) 21 (2), 38–46. (USA)
 23. Proshad, R., **Islam, M.S.**, Haque, M.A., Hoque, M.F., Ahmed, S., 2018. Apportionment of hazardous elements in agricultural soils around the industrial vicinity of Bangladesh. *SF Journal of Environmental and Earth Science*. 1, 1: 1001-1011 (USA)
 24. Proshad, R., **Islam, MS**, Islam, M.N., Hossain, M.R., Kormoker, T., Islam, M.S. and Billah, K.M.M., 2018. Promiscuous application of toxic agrochemicals on pineapple: health hazard implications in Bangladesh. *Food Research* 2 (2): 139–145. (Malaysia)
 25. Ali, MM, Ali, M.L., **Islam, MS**, Rahman, M.Z. 2018. Assessment of toxic metals in water and sediment of Pasur River in Bangladesh. *Water Science and Technology*, DOI: 10.2166/wst.2018.016 (USA)
 26. Proshad, R., Kormoker, T., **Islam, MS**, Haque, M.A., Rahman, M.M., and Mithu, M.M.R.,

2018. Toxic effects of plastic on human health and environment: A consequences of health risk assessment in Bangladesh. *International Journal of Health*, 6 (1): 1–5 (UAE)

2017

27. **Islam MS**, Ahmed, M.K., Proshad, R., Ahmed S., 2017. Assessment of toxic metals in vegetables with the health implications in Bangladesh. *Advances in Environmental Research, an International Journal* 6, 4: 241-254 (South Korea).
28. Proshad R, Kormoker T, **Islam MS**, Saha BC, Hossain MR, Prince MH and Khan MM, 2017. An Apportionment of Arsenic and Iron Contamination of Tube-well Groundwater with Possible Health Risk in Bangladesh. *Journal of Environment Pollution and Human Health*, 5: 117–123. (USA)
29. **Islam MS**, Proshad R, Ahmed S, 2017. Ecological risk of heavy metals in sediment of an urban river in Bangladesh. *Human and Ecological Risk Assessment: An International Journal*. Doi: 10.1080/10807039.2017.1397499 (USA)
30. **Islam MS**, 2017. Metals concentration in the industrial wastewater in Bangladesh and their removal by low cost byproducts. *International Journal of Research in Engineering and Innovation (IJREI)*, 1 (6): 157–163. (India)
31. **Islam, M.S.**, Ahmed, M.K., Al-Mamun, M.H., Islam, SMA. 2017. Sources and Ecological Risk of Heavy Metals in Soils of Different Land Uses in Bangladesh. *Pedosphere* (doi.org/10.1016/S1002-0160(17)60394-1 (The Netherlands)
32. **Islam, M.S.**, Al-Mamun, M. H., Ye, F., Tokumura, M., Masunaga, S., 2017. Chemical speciation of trace metals in the industrial sludge of Dhaka City, Bangladesh. *Water Science and Technology*, 76: 256–267 (USA)
33. **Islam, M.S.**, Ahmed, M.K., Al-Mamun, M.H., Eaton, D.W., 2017. Human and ecological risks of metals in soils under different land use in an urban environment of Bangladesh. *Pedosphere* (doi.org/10.1016/S1002-0160(17)60395-3). (The Netherlands)
34. **Islam, M.S.**, Al-Mamun, M. H., 2017. Accumulation of trace elements in sediment and fish species of Paira River, Bangladesh. *AIMS Environmental Science*. 4 (2): 310–322 (USA)
35. **Islam, M.S.**, Ahmed, M.K., Raknuzzaman, M., Al-Mamun, M.H., Kundu, G.K., 2017. Heavy metals in the industrial sludge and their ecological risk: A case study for a developing country. *Journal of Geochemical Exploration* 172: 41–49. (USA)
36. Islam, S.M.A., Yeasmin, S., **Islam, M.S.**, Islam, M.S., 2017. Binding affinity 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. (USA)
37. Al-Mamun, M.H., Ahmed, M.K., Raknuzzaman, M., **Islam, M.S.**, Tokumura, M., Masunaga, S., 2017. Occurrence and assessment of perfluoroalkyl acids (PFAAs) in commonly consumed seafood from the coastal area of Bangladesh. *Marine Pollution Bulletin* 124 (2):

775–785. **(The Netherlands)**

38. **Islam, M.S.**, Ahmed, M.K., Al-Mamun, M.H., Eaton, D.W., 2017. Arsenic in the food chain and assessment of population health risks in Bangladesh. *Environmental System and Decision* 37(3): 344–352. **(The Netherlands)**

2016

39. Ahmed, MK, Shaheen, N, **Islam, MS**, Islam, S, Islam, MM, Kundu, GK, Bhattacharjee, L. 2016. A comprehensive assessment of arsenic in commonly consumed foodstuffs to evaluate the potential health risk in Bangladesh. *Science of the Total Environment*, 544: 125–133. **(The Netherlands)**
40. **Islam, M.S.**, Ahmed, MK, Al-Mamun, M.H, 2016. Heavy metals in sediment and their accumulation in mostly consumed fish species in Bangladesh. *Archives of Environmental and Occupational Health*, 72 (1): 26–38. **(USA)**
41. Zabir, A.A., Zzaman, M.W.U., Hossen, M.Z., Uddin, M.N., Islam, M.S., **Islam, M.S.**, 2016. Spatial dissemination of some heavy metals in soil adjacent to Bhaluka industrial area, Mymensingh, Bangladesh. *American Journal of Applied Scientific Research*, 2(6): 38–47. **(USA)**
42. Raknuzzaman, M., Ahmed, M.K., **Islam, M.S.**, Al-Mamun, M.H., Tokumura, M., Sekine, M, Masunaga, S., 2016. Assessment of Trace Metals in Surface Water and sediment collected from polluted coastal areas of Bangladesh. *Journal of Water and Environmental Technology*, 4: 247–259. **(Japan)**
43. Shaheen, N., Ahmed, M.K., **Islam, M.S.**, Al-Mamun, M.H., Basak, A., Islam, S., Rahim, A.T.A., 2016. Health risk assessment of trace elements via dietary intake of ‘non-piscine protein source’ foodstuffs (meat, milk and egg) in Bangladesh. *Environmental Sciences and Pollution Research*, 23 (8): 7794–7806. **(The Netherlands)**.
44. Ali, M.M., Ali, M.L., **Islam, M.S.**, Rahman, M.Z. 2016. Preliminary assessment of heavy metals in water and sediment of Karnaphuli River, Bangladesh. *Environmental Nanotechnology, Monitoring and Management*. 5: 27–35. **(USA)**.
45. **Islam, M.S.**, Ahmed, M.K., Al-Mamun, M.H., Rakunuzzaman, M., Ali, M., Eaton, D.W., 2016. Health risk assessment due to heavy metal exposure from commonly consumed fish and vegetables, *Environment System and decisions*, 36(3), 253-265. **(UK)**
46. **Islam, M.S.**, Islam, MS., Al-Mamun, M.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 Management*. 5: 74–80. **(USA)**.
47. Ahmed, M.K., Baki, M.A., Kundu, G.K., **Islam, M.S.**, Islam, M.M., Hossain, M.M., 2016. Human health risks from heavy metals in fish of Buriganga River, Bangladesh.

SpringerPlus, 5: 1697–1708. (USA)

48. Al-Mamun, M.H., Ahmed, M.K., Raknuzzaman, M., **Islam, M.S.**, Negishi, J., Nakamichi, S., Sekine, M., Tokumura, M., Masunaga, S., 2016. Occurrence and distribution of perfluoroalkyl acids (PFAAs) in surface water and sediment of a tropical coastal area (Bay of Bengal coast, Bangladesh). *Science of the Total Environment*, 571: 1089–1104. (The Netherlands)
49. Mondal, D., **Islam, M.S.**, Hoque, M.F., Rafiq, M., Ahsan, S. M., 2016. Screening and Isolation of Salt Tolerant Bacteria from Tidal Floodplain Soils of Bangladesh. *Octa Journal of Biosciences*, 4(1):11–16. (India)
50. Raknuzzaman, M., Ahmed, M.K., **Islam, M.S.**, Al-Mamun, M.H., Tokumura, M., Sekine, M, Masunaga, S., 2016. Trace metal contamination in commercial fish and crustaceans collected from coastal area of Bangladesh and health risk assessment. *Environmental Science and Pollution Research*, 23: 17298–17310. (USA)
51. Mondal, D., **Islam, M.S.**, Hoque, M.F., Hossain, M.K., Islam, M.K., Hossin, M.S., Ahsan, S.M. 2016. Isolation and screening of potential phosphate solubilizing bacteria (PSB) from tidal saline soils of Bangladesh. *Octa Journal of Environmental Research*, 4(3): 198–207. (India)
52. Shaheen, N., Irfan, M.N., Khan, I.N., Islam, S., **Islam, M.S.**, Ahmed, M.K., 2016. Presence of heavy metals in fruits and vegetables: Health risk implications in Bangladesh. *Chemosphere*, 152: 431–438 (The Netherlands).
53. **Islam, M.S.**, Ahmed, M.K., Al-Mamun, M.H., 2016. Human an ecological risks of hazardous materials in soils of Bangladesh. *Advances in Environmental Research, An International Journal*, 5(2): 79–94 (South Korea).

2015

54. **Islam, M.S.**, Ahmed, M.K., Al-Mamun, M.H., Masunaga, S., 2015. Assessment of trace metals in fish species of urban rivers in Bangladesh and health implications. *Environmental Toxicology and Pharmacology*, 39: 347–357. (The Netherlands).
55. **Islam, M.S.**, Ahmed, M.K., Al-Mamun, M.H., Masunaga, S., 2015. Potential ecological risk of hazardous elements in different land-use urban soils of Bangladesh. *Science of the Total Environment*, 512–523: 94–102. (The Netherlands)
56. **Islam, M.S.**, Ahmed, M.K., Raknuzzaman, M., Al-Mamun, M.H., Islam, M.K., 2015. Heavy metal pollution in surface water and sediment: A preliminary assessment of an urban river in a developing country. *Ecological Indicators*, 48: 282–291. (The Netherlands)
57. **Islam, M.S.**, Ahmed, M.K., Al-Mamun, M.H., 2015. Determination of heavy metals in fish and vegetables and health implications in Bangladesh. *Human and Ecological Risk Assessment: An International Journal*, 21: 986–1006. (USA).

58. **Islam, M.S.**, Ahmed, M.K., Al-Mamun, M.H., Raknuzzaman, M., 2015. Trace elements in different land use soils of Bangladesh and potential ecological risk. *Environmental Monitoring and Assessment*, 187: 587–597. **(The Netherlands)**
59. **Islam, M.S.**, Ahmed, M.K., Al-Mamun, M.H., Raknuzzaman, M., 2015. The concentration, source and potential human health risk of heavy metals in the commonly consumed foods in Bangladesh. *Ecotoxicology and Environmental Safety*, 122: 462–469. **(USA)**
60. **Islam, M.S.**, Ahmed, M.K., Al-Mamun, M.H., 2015. Geochemical speciation and risk assessment of heavy metals in sediments of a river in Bangladesh. *Soil and Sediment Contamination: An International Journal*, 24: 639–655. **(USA)**.
61. Ahmed, M.K., Shaheen, N., **Islam, M.S.**, Al-Mamun, M.H., Islam, S., Mohiduzzaman, M., Bhattacharjee, L. 2015. Dietary intake of trace elements from highly consumed cultured fish (*Labeo rohita*, *Pangasius pangasius* and *Oreochromis mossambicus*) and human health risk implications in Bangladesh. *Chemosphere*, 128: 284–292. **(The Netherlands)**.
62. **Islam, M.S.**, Ahmed, M.K., Al-Mamun, M.H., 2015. Metal speciation in soil and health risk due to vegetables consumption in Bangladesh. *Environmental Monitoring and Assessment*, 187: 288–303. **(The Netherlands)**.
63. Ahmed, M.K., Shaheen, N., **Islam, M.S.**, Al-Mamun, M.H., Islam, S., Banu, C.P., 2015. Trace elements in two staple cereals (rice and wheat) and associated health risk implications in Bangladesh. *Environmental Monitoring and Assessment*, 187: 326–336. **(The Netherlands)**.
64. Ahmed, M.K., Baki, M.A., **Islam, M.S.**, Kundu, GK., Sarkar, SK., Hossain, M.M., 2015. Human health risk assessment of heavy metals in tropical fish and shell fish collected from the river Buriganga, Bangladesh. *Environmental Science and Pollution Research*, 22: 15880–15890. **(The Netherlands)**.
65. **Islam, M.S.**, Ahmed, M.K., Al-Mamun, M.H., 2015. Apportionment of heavy metals in soil and vegetables and associated health risk assessment. *Stochastic Environmental Research and Risk Assessment* 30(1): 365–377. **(UK)**
66. Hoque, M.F., **Islam, M.S.**, Islam, M.R., Rashid, M.H., Saleque MA., 2015. Phosphorus Fractionations in Ganges Tidal Floodplain Soil of Bangladesh. *Bangladesh Rice Journal*, 19(2): 55–61. **(Bangladesh)**
67. **Islam, M.S.**, Ahmed, M.K., Al-Mamun, M.H., 2015. Distribution of trace elements in different soils and risk assessment: a case study for the urbanized area in Bangladesh. *Journal of Geochemical Exploration*, 158: 212–222. **(USA)**

2014

68. **Islam, M.S.**, Ahmed, M.K., Raknuzzaman, M., Al-Mamun, M.H. and Masunaga, S., 2014. Metal speciation in sediment and their bioaccumulation in fish species of three urban rivers

- in Bangladesh. *Archives of Environmental Contamination and Toxicology*, 68: 92–106. (USA).
69. **Islam, M.S.**, Ahmed, M.K., Al-Mamun, M.H. and Hoque, M.F., 2014. Preliminary assessment of heavy metals contamination in surface sediments from a river in Bangladesh. *Environmental Earth Science*, 73: 1837–1848. (Germany).
70. **Islam, M.S.**, Ahmed, M.K., Al-Mamun, M.H., Masunaga, S., 2014. Trace metals in soil and vegetables and associated health risk assessment. *Environmental Monitoring and Assessment*, 186: 8727–8739. (The Netherlands).
71. **Islam, M.S.**, Ahmed, M.K., Al-Mamun, M.H., Raknuzzaman, M., Masunaga, S., 2014. Chemical speciation of metals in sediment and their bioaccumulation in fish on three rivers around Dhaka city, Bangladesh. *International Journal of Environmental Engineering*, 1: 71–75 (USA).
72. **Islam, M.S.**, Ahmed, M.K., Al-Mamun, M.H., 2014. Heavy metals in cereals and pulses: Health implications in Bangladesh. *Journal of Agricultural and Food Chemistry*, 62 (44): 10828–10835. (USA).
73. **Islam, M.S.**, Ahmed, M.K., Al-Mamun, M.H., Islam, K.Z., Ibrahim, M., Masunaga, S., 2014. Arsenic and lead in foods: a potential threat to human health in Bangladesh. *Food additives and Contaminants: Part A*, 31(12): 1982–1992. (USA).
74. **Islam, M.S.**, Ahmed, M.K., Al-Mamun, M.H., masunaga, S., 2014. Assessment of trace metals in foodstuffs grown around the vicinity of industries in Bangladesh. *Food Composition and Analysis*, 42: 8–15. (The Netherlands).
75. Ye, F., Tokumura, M., **Islam, M.S.**, Oh, J., Masunaga, S., 2014. Spatial distribution and importance of potential perfluoroalkyl acid precursors in urban rivers and sewage treatment plant effluent – Case study of Tama River, Japan. *Water Research*, 67: 77–85. (USA).
76. **Islam, M.S.**, Hoque, M.F., 2014. Concentrations of heavy metals in vegetables around the industrial area of Dhaka city, Bangladesh and health risk assessment. *International Food Research Journal*, 21(6): 2121–2126. (Malaysia)

2013

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International conference/Symposia Proceedings Abstracts and Papers

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95. **Islam, M.S.**, 2018. Biosynthesis and function of suberin. 24 October, 2018 (*Tokyo University, Japan*).
96. **Islam, M.S.**, 2018. Climate smart agriculture and Biotechnology. *International Program in Agricultural Development Studies (IPADS)*. 27 July, 2018 (*Tokyo University, Japan*).
97. **Islam, M.S.**, Ahmed, M.K., Raknuzzaman, M., Al-Mamun, M.H. and Masunaga, S., 2014. Geo-chemical speciation of metals and their bioaccumulation in two fish species on three rivers around Dhaka City, Bangladesh. Proc. of the Intl. Conf. on Advances in Civil, Structural, Environmental & Bio-Technology. ISBN: 978-1-63248-001-9, doi: 10.15224/978-1-63248-001-9-05. (**Malaysia**)
98. Raknuzzaman, M., Ahmed, M.K., **Islam, M.S.**, Al-Mamun, M.H., Masahiro TOKUMURA, Makoto SEKINE, Shigeki MASUNAGA, 2015. Assessment of trace metals in surface water, sediment, some commercial fishes and crustaceans collected from coastal area, Bangladesh, *Water and Environment Technology Conference 2015 (WET 2015)*, Program and Abstracts, p. 4 (2015.8.5-6; Nihon University Surugadai Campus, Tokyo, **Japan**)
99. **Islam, M.S.**, Masunaga, S., 2014. Trace metals contamination in soil and foodstuffs around the industrial area of Dhaka city, Bangladesh and health risk assessment. *International Forum for Sustainable Asia and the Pacific (ISAP) Institute for Global Environmental Strategies (IGES)*, Yokohama, **Japan**. 23-24, July, (Poster presentation). <http://www.iges.or.jp/isap/2014/en/exhibition.html#exhibition>.

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102. **Islam, M.S.**, Masunaga, S., 2013. Monitoring and assessment of trace metal in water and sediment of some rivers around Dhaka city, Bangladesh. *The 5th International Symposium of Gifu University Rearing Program, for Basin Water Environmental Leaders (BWEL)*, 08 November, (Poster). [http://risk.kan.ynu.ac.jp/publish/2013_SLER\(GIFU\)_Saiful.pdf](http://risk.kan.ynu.ac.jp/publish/2013_SLER(GIFU)_Saiful.pdf) (**Japan**)
103. **Islam, M.S.**, Masunaga, S., 2013. Assessment of trace metals in water, sediment and fish species of some urban rivers in Bangladesh. *Society of Environmental Toxicology and Chemistry North America 34th Annual Meeting Abstract Book p. 272 (2013.11.17–21; Nashville, TN, USA) Poster: TP198.* (**USA**)
104. **Islam, M.S.**, Masunaga, S., 2013. Bioavailability and risk assessment of trace metals in sediment and fish species of some rivers in Bangladesh. *Water and Environment Technology Conference, Tokyo University of Agriculture & Technology*, 15-16th June (Oral and poster presentation). (**Japan**)
105. **Islam, M.S.**, Masunaga, S., 2014. Monitoring of heavy metals in industrial waste water of Dhaka urban area, Bangladesh. *The International Conference on Storm water and Urban Water Systems Modeling, The Marriott Courtyard Toronto Brampton, Toronto, Canada.* 26-27 February (Oral presentation). <http://chiwater.com/files/conferencenbooklet2014.pdf>.
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107. **Islam, M.S.**, Ye Feng, Kurukawa., K., 2012 Sustainable development and environmental management in Madagascar. *Domestic conference in the University of Antananarivo, Madagascar.* 9 November, (Oral presentation). (**Madagascar**)
108. **Islam, M.S.**, Masunaga, S., 2011. Health risk assessment of trace metals in human blood around the Laguna Lake in Philippines. *International symposium at University of the Philippines Los Baños, Philippines.* 11 November, (Oral presentation). (**Philippines**)

109. F. Ye, M. Tokumura, **Islam, M.S.**, J. Oh, S. Masunaga, And Y. Zushi: Spatial distribution and importance of potential perfluoroalkyl acid precursors in urban rivers and sewage treatment plant effluent – Case study of Tama River, Japan, 17th Symposium of the Japan Society of Water Environment, 331-336, 8-10, September, (Oral presentation). (**Japan**)

Supervision of Graduate Students and other Scholarly Activities

1. Ten Master students (MS) graduated under my supervision.
2. Reviewer: Environmental Science and Pollution Research journal, Science of the Total Environment, Chemosphere, Environmental Monitoring and Assessment, Stochastic Environmental Research and Risk Assessment, Water Research.

Professional affiliations (Membership)

1. Member of the IRED (Institute of Research, Engineers and Doctors) (**March, 2014 to till date**).
2. Editorial board member of the “Journal of Agriculture and Aquaculture” (eScientific Publishing Group) (**October, 2018 to till date**).
3. Editorial board member of the “International Research Journal of Applied Sciences” (Austin Publishing Group) (**October, 2018 to till date**).
4. Editorial board member of the journal of “Annals of Agricultural and Crop Sciences” (Austin Publishing Group) (**February, 2017 to till date**).
5. Editorial board member of the “Journal of Nutrition and Food Science Forecast” (**September, 2017 to till date**).
6. Editorial board member of the “Journal of Acta Scientific Agriculture” (**February, 2018 to till date**).
7. Editorial board member of the “Journal of Trends in Horticulture” (**February, 2018 to till date**).
8. Editorial board member of the “The Open Ecology Journal” (**February, 2018 to till date**).
9. Editorial board member of the “Journal of Ecology and Toxicology” (**March, 2018 to till date**).
10. Editorial board member of the “International Journal of Environmental Chemistry, (SciencePG) (**August, 2017 to till date**).
11. Editorial board member of “SF Journal of Environmental and Earth Science” (**June, 2017 to till date**).
12. Editorial board member of “American Journal of Advanced and Applied Sciences” (**March, 2018 to till date**).
13. Member of the young water professional, Society of Water and Environmental Science and Technology, Japan (**June, 2013 to till date**);
14. Member of the Society of Soil Science in Bangladesh (**July, 2007 to till date**);

15. Academic member of the department of Soil Science, Patuakhali Science and Technology University, Bangladesh (**March, 2007 to till date**).
16. Member, Bangladesh Krishibid Institution, Dhaka, Bangladesh (**January, 2005 to till date**).

Details on Third Party Funding/Grants Received by Dr. Md. Saiful Islam

Current Projects

1. Epigenetic and post-transcriptional regulation of nutrient transport in rice plant. A-24 months (July, 2018 to June, 2020) project was funded by the Japan Society for the Promotion of Science (JSPS) Tokyo, Japan.

Total Grant: **US\$ 110,100.00/- (Approx.) (Including monthly scholarship)**

2. Role of Japan for socioeconomic development of Bangladesh through arsenic detoxification in rice. A 12-months project (April, 2017 to March, 2018) under the Sumitomo Foundation, Japan.

Total Grant: **US\$ 10,000.00/-**

3. Development of new techniques for the removal of trace elements from the wastewater. A 12-months project (April, 2017 to March, 2018) under the Patuakhali Science and Technology University, Bangladesh.

Total Grant: **US\$ 1000.00/-**

Successfully completed projects

4. Improvement wheat production techniques in the clay loam soil in Bangladesh. A one (01) year project (2008-2009), funded by Patuakhali Science and Technology University, Bangladesh.

Total Grant: **US\$ 5,00.00/-**

5. Effect of boron fertilizer and application methods on wheat yield in the southern part of Bangladesh. A 12-months project (April, 2009 to March, 2010), funded by Patuakhali Science and Technology University, Bangladesh.

Total Grant: **US\$ 5,00.00/-**

6. Assessment of heavy metals in the environment and associated health risk of Bangladeshi people. Four-year project (4 years) (October 2010 to September 2014) co-funded by the Leadership Program in Sustainable Living with Environmental Risk (SLER) at

Yokohama National University under the aid of Strategic Funds for the Promotion of Science and Technology from the Ministry of Education, Culture, Sports, Science and Technology and also for Research Collaboration Promotion Fund provided by Graduate School of Environment and Information Sciences, Yokohama National University, Japan.

Total Grant: **US\$ 155,000.00/- (Approx.) (Including monthly scholarship)**

7. Trace metals in the industrial wastewater and their removal by using low cost byproducts. A 12-months project (June, 2016 to May, 2017), funded by Patuakhali Science and Technology University, Bangladesh.

Total Grant: **US\$ 1000.00/-**

Language Proficiency

English: Excellent in reading, writing and speaking

Bengali: Excellent in reading, writing and speaking

Japanese: Very good in speaking, good at reading and writing

Arabic: Very good in reading, moderate in writing and speaking

Computer Skills

Expert and proficient in using all common soft-wares and databases including MS Word, Excel, Power Point, Adobe Photoshop, Chem Office, ClarisWorks, and Statistical Analysis System (SAS).

References

1. Professor Shigeki Masunaga (PhD)

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