

# Curriculum Vitae of Mominul Haque Rabin

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## CONTACT ADDRESS

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Dr. Mominul Haque Rabin  
Assistant Professor  
Department of Agricultural Chemistry  
Sher-e-Bangla Agricultural University, Dhaka-1207  
Cell: +8801710090715  
Email: rabinagch@sau.edu.bd



## PROFESSIONAL SUMMARY

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Dedicated Assistant Professor specializing in Environmental Pollution, Toxicology, and Soil Chemistry, with current research focused on emerging pollutants such as microplastics, POPs, and toxic elements in environmental matrices. Committed to advancing sustainable environmental research through innovative teaching practices and dedicated student mentorship.

## PROFESSIONAL EXPERIENCES

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- Assistant professor** : Department of Agricultural Chemistry, Sher-e-Bangla Agricultural University, Dhaka-1207, Bangladesh.  
Duration: December 28, 2020 - present
- Lecturer** : Department of Agricultural Chemistry, Sher-e-Bangla Agricultural University, Dhaka-1207, Bangladesh.  
Duration: December 27, 2018 - December 27, 2020

## EDUCATION

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- **Doctor of Philosophy (PhD) in Environmental Science**  
Saitama University, Japan  
Graduated: 2023
- **Master of Science (MS) in Agricultural Chemistry**  
Sher-e-Bangla Agricultural University, Dhaka, Bangladesh  
Graduated: 2014
- **Bachelor of Science (Hons) in Agriculture**  
Sher-e-Bangla Agricultural University, Dhaka, Bangladesh  
Graduated: 2010

## AWARDS AND SCHOLARSHIPS

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- **Japanese Government (Monbukagakusho/MEXT) Scholarship**  
Awarded for the Special Program for International Students in Green and Sustainable Chemical (GSC) Technologies (Three-Year Doctoral Course)  
Graduate School of Science and Engineering, Saitama University, Japan (2020–2023)
- **MS Fellowship**  
Funded under CP#3645, W-2, AIF (3), HEQEP, UGC, World Bank  
Department of Agricultural Chemistry  
Sher-e-Bangla Agricultural University, Dhaka, Bangladesh (2012-2014)
- **Dean's Award for Outstanding Academic Achievement**  
Faculty of Agriculture, Sher-e-Bangla Agricultural University, Dhaka, Bangladesh (2019)

## EXPERIENCES OF RESEARCH PROJECT

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- **Principal Investigator (PI)**  
**Project Title:** Performance of the foliar application of potassium, salicylic acid, and humic acid on mitigation of salt stress in the growth, yield, and nutrient content of rice.  
**Funding Body:** Sher-e-Bangla Agricultural University Research System (SAURES), Sher-e-Bangla Agricultural University, Dhaka, Bangladesh.  
**Duration:** 2024–2025
  
- **Principal Investigator (PI)**  
**Project Title:** Alleviate salt stress in the growth, yield, and nutrient content of rice with the foliar application of potassium fertilizer and humic acid.  
**Funding Body:** Ministry of Science and Technology, Government of the People's Republic of Bangladesh.  
**Duration:** 2024–2025
  
- **Principal Investigator (PI)**  
**Project Title:** Pollution levels and probabilistic health risk assessment of heavy metals in available spices in the local markets of Dhaka, Bangladesh.  
**Funding Body:** University Grants Commission (UGC) of Bangladesh, Dhaka, Bangladesh.  
**Duration:** 2023–2024
  
- **Principal Investigator (PI)**  
**Project Title:** Mitigation of salt stress in rice with organic and inorganic fertilizers.  
**Funding Body:** Ministry of Science and Technology, Government of the People's Republic of Bangladesh.  
**Duration:** 2019–2020
  
- **Associate Investigator (Co-I)**  
**Project Title:** Revealing tolerance mechanisms of salinity, waterlogging and combined salinity-waterlogging stress in wheat and barley.  
**Funding Body:** Ministry of Science and Technology, Government of the People's Republic of Bangladesh.  
**Duration:** 2019–2020

## PROFESSIONAL TRAINING

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- **e-Learning Course on Research Ethics**, 20 November 2020 — Japan Society for the Promotion of Science, Japan.
- **Foundation Training for University Teachers**, 26 October – 21 November 2019 — Bangladesh Agricultural University & University Grants Commission (UGC), Bangladesh.
- **Scientific Paper Writing and Publication Workshop**, 23 July 2019 — Sher-e-Bangla Agricultural University, Dhaka, Bangladesh.
- **Training on Teaching, Learning, Assessment, and Implementation of Outcome-Based Curriculum**, 26 January 2019 — Sher-e-Bangla Agricultural University, Dhaka, Bangladesh.
- **Training on Responsibilities of Teachers, Outcome-Based Education, and University Regulations**, 12–13 January 2019 — Sher-e-Bangla Agricultural University, Dhaka, Bangladesh.
- **Laboratory Techniques Training:** Operation of Gas Chromatography, Rotary Evaporator, Flame Photometer, Muffle Furnace, Centrifuge, Shaker, Incubator, Magnetic Stirrer, Water Bath, Vortexer, Water Deionizer, pH Meter, 4–5 June 2016 — Department of Agricultural Chemistry, Sher-e-Bangla Agricultural University, Dhaka, Bangladesh.

## COMMUNITY SERVICES

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- Life member: Japanese Universities Alumni Association in Bangladesh (JUAAB)
- Member: Saitama University Alumni Association (SUAA), Saitama, Japan
- Member: Sher-e Bangla Agricultural University Alumni Association (SAUAA), Dhaka, Bangladesh
- Member: Krishibid Institution Bangladesh, Dhaka, Bangladesh.
- Member: Teachers Association, Sher-e-Bangla Agricultural University, Dhaka, Bangladesh.

## PUBLICATIONS

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1. Enyoh, C. E., Ovuoraye, P. E., **Rabin, M. H.**, Qingyue, W., & Tahir, M. A. (2024). Thermal Degradation Evaluation of Polyethylene Terephthalate Microplastics: Insights from Kinetics and Machine Learning Algorithms Using Non-isoconversional TGA Data. *Journal of Environmental Chemical Engineering*, 111909.
2. **Rabin, M. H.**, Wang, Q., Enyoh, C. E., Kai, X., & Sheuty, T. F. (2023). Distribution, Potential Sources, and Health Risk of Microplastics (MPs) in Street Dust during and after COVID-19 Lockdown in Bangladesh. *Environments*, 10(7), 130. <https://doi.org/10.3390/environments10070130>.
3. Hossain, A., Ahmed, M. W., **Rabin, M. H.**, Kaium, A., Razzaque, A., & Zamil, S. S. (2023). Heavy metal quantification in chicken meat and egg: An emerging food safety concern. *Journal of Food Composition and Analysis*, 105876. <https://doi.org/10.1016/j.jfca.2023.105876>.
4. Enyoh, C. E., Devi, A., Kadono, H., Wang, Q., & **Rabin, M. H.** (2023). The Plastic Within: Microplastics Invading Human Organs and Bodily Fluids Systems. *Environments*, 10(11), 194. <https://doi.org/10.3390/environments10110194>.
5. Enyoh, C. E., Wang, Q., **Rabin, M.H.**, Bakare, R.O., Dadiel, J. L., Shangrong, W., Lu, S. and Ilechukwu, I. (2023). Preliminary characterization and probabilistic risk assessment of microplastics and potentially toxic elements (PTEs) in garri (cassava flake), a common staple food consumed in West Africa. *Environmental Analysis Health and Toxicology* 2023;38(1): e2023005-0. doi: <https://doi.org/10.5620/eaht.2023006>.
6. Enyoh, C. E., Wang, Q., Wang, W., Chowdhury, T., **Rabin, M. H.**, Islam, R., ... & Xiao, K. (2022). Sorption of Per-and Polyfluoroalkyl Substances (PFAS) using Polyethylene (PE) microplastics as adsorbent: Grand Canonical Monte Carlo and Molecular Dynamics (GCMC-MD) studies. *International Journal of Environmental Analytical Chemistry*, 1-17. DOI: 10.1080/03067319.2022.2070016.
7. Enyoh, C. E., Wang, Q., Eze, V. C., **Rabin, M. H.**, Rakib, M. R. J., Verla, A. W., Ibe, F. C., Duru, C. E., Verla, E. N. (2022). Assessment of potentially toxic metals adsorbed on small macroplastics in urban roadside soils in southeastern Nigeria, *Journal of Hazardous Materials Advances*. doi: <https://doi.org/10.1016/j.hazadv.2022.100122>.
8. **Rabin, M.H.**, Wang, Q., Kabir, M.H. and Wang, W. (2022). Pollution characteristics and risk assessment of potentially toxic elements of fine street dust during COVID-19 lockdown in Bangladesh. *Environmental Science and Pollution Research*. <https://doi.org/10.1007/s11356-022-22541-8>.
9. Islam, M. M., Ahmed, M. W., **Rabin, M. H.**, Razzaque, M. A., Hasan, M., Siddika, M. & Zamil, S. S. (2022). Status and health risk assessment of heavy metals in vegetables grown in industrial areas of Bangladesh, *International Journal of Environmental Analytical Chemistry*, DOI: 10.1080/03067319.2022.2118590.
10. Xiao, K., Wang, Q., Lu, S., Lin, Y., Enyoh, C.E., Chowdhury, T., **Rabin, M.H.**, Islam, M.R., Guo, Y. & Wang, W. (2022). Pollution levels and health risk assessment of potentially toxic metals of size-segregated particulate matter in rural residential areas of high lung

cancer incidence in Fuyuan, China. *Environmental Geochemistry and Health*.  
<https://doi.org/10.1007/s10653-022-01374-x>.

11. **Rabin, M. H.**, Wang, Q., Wang, W., & Enyoh, C. E. (2022). Pollution Characteristics, Source Apportionment, and Health Risk of Polycyclic Aromatic Hydrocarbons (PAHs) of Fine Street Dust during and after COVID-19 Lockdown in Bangladesh. *Processes*, *10*(12), 2575. <https://doi.org/10.3390/pr10122575>.
12. Xiao, K., Lin, Y., Wang, Q., Lu, S., Wang, W., Chowdhury, T., Enyoh, C. E. & **Rabin, M. H.** (2021). Characteristics and Potential Inhalation Exposure Risks of Environmentally Persistent Free Radicals in Atmospheric Particulate Matter and Solid Fuel Combustion Particles in High Lung Cancer Incidence Area, China. *Atmosphere*, *12*(11), 1467. <https://doi.org/10.3390/atmos12111467>.

## PERSONAL DETAILS

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Name : Dr. Mominul Haque Rabin  
Father's Name : A. K. M. Shamsul Haque  
Mother's Name : Minara Akter  
Permanent Address : Minara Nir, Mohazon Para, Barhatta, Netrokona  
Date of Birth : November 5, 1988  
Nationality : Bangladeshi  
Religion : Islam (Sunni)  
Marital Status : Married  
Blood Group : A+  
Sex : Male  
National ID No. : 7798240383

## REFEREES

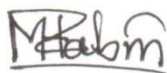
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I the undersigned, hereby declare that the above information is true, complete and correct to the best of my knowledge and concern.



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**(Dr. Mominul Haque Rabin)**