**Research Publications:**

**(a) Research Articles Published in International Journals (Total number = 32):**

1. **Ali, M.A**. Hassan, Md. R, Al Islam, Z. Barman, S.C., Khan, B., Khatun, R, Hiya, H. J, Islam, Md.T.2021. Development of Environment Friendly Paddy Ecosystem for Sustainable Rice Farming through Soil Amendments with Biochar and Alternate Wetting-Drying Irrigations, **American Journal of Climate Change, 10**, 581-596. <https://www.scirp.org/journal/ajcc> ISSN Online: 2167-9509.
2. **Ali, M.A**., Barman, S.C, Khan, MAI, Khan, M.B, Hiya, H.J. 2021. Mitigation Yield Scaled Methane Emission from Rice grown in water stress conditions with Biochar and Silicate amendments, **International Journal of Big Data Mining for Global Warming**,
3. Khatun, L., **Ali, M.A**., Sumon, M.H., Islam, Md.B. and Khatun, F. (2020) Mitigation Rice Yield Scaled Methane Emission and Soil Salinity Stress with Feasible Soil Amendments**. Journal of Agricultural Chemistry and Environment, 9**, 16-36. https://doi.org/10.4236/jacen.2021.101002
4. Hiya, H. J**., Ali, M.A**., Baten, M.A., & Barman, S. C. (2020). Effect of Water Saving Irrigation Management Practices on Rice Productivity and Methane Emission from Paddy Field. **Journal of Geoscience and Environment Protection**, 8, 182-196. https://doi.org/10.4236/gep.2020.89011
5. Paul, B.K., **Ali, M.A**., Saha, K.K. and Khan, M.B. (2020). Effect of standing water levels on methane gas emission and yield performance of transplanted Aman rice (Oryza sativa L. cv. BRRI dhan51). **Archives of Agriculture and Environmental Science, 5(3)**:299-305, https://dx.doi.org/10.26832/24566632.2020.0503010.
6. Sarker, A., Alam, S, A. B. M., Rahman, M.S, Topu, M.A.A, **Ali, M**.A and Salma Sarker 2020. Effect of fertilizers to reduce CH4 emission and increase rice productivity, **International Journal of Natural and Social Sciences, 7(2): 61-69.**
7. Begum., K, Kuhnertb M, Yeluripatic. J.B., Ogled. S.M., Partond, W.J., Williams. S.A., Pane.G., Chenge.K., **Ali, M.A.** and Smith, P**. 2019**. Modelling greenhouse gas emissions and mitigation potentials in fertilized paddy rice ﬁelds in Bangladesh, **Geoderma**, [Vol.341](https://www.sciencedirect.com/science/journal/00167061/341/supp/C), pp. 206-215.
8. Shamsur R, **M. A. Ali**, Md A.I., Sayema SKF, and M.LK. **2017**. Assessment of Drinking Water Quality and Hygienic Conditions of the People Living around the Dingaputha Haor Area of Netrokona District, Bangladesh. Research & Reviews **Journal of Ecology and Environmental Sciences,** Vol.4.Issue 4. pp.12-23.
9. Akter S, Rahman MZ, Rahman MM, Nasreen SS, Chowdhury ZJ and **Ali MA**. 2017. Effect of different levels of Silicon on Yield and Yield Attributes of Rice, **International Journal of Natural Sciences,** 6(3):120-122.
10. **Ali**, **M.A**., P.J.Kim, and K., Inubushi. **2015**. Mitigating yield-scaled greenhouse gas emissions through combined application of soil amendments: a comparative study between temperate and subtropical rice paddy soils, **Science of the Total Environment**, 529:140-148.
11. Ahmad, A., Siddique, A.R., Ali, M., Robin, M.H**., Ali, M.A.,** and Sattar, M.A., **2016.** Contamination of arsenic in relation to soil properties of Mymensingh and Chuadanga Districts, **International Journal of Scientific and Research Publications**, 6(2):350-359.
12. Rahman, M.M., **Ali, M.A*.,*** Khatun, R. and Riffat, AZT. 2016 Effect of Noise Pollution on Patients in Hospitals and Health Clinics of Mymensingh Sadar Upazila, International Journal of Innovation and Applied Studies, Vol. 18 No. 1 Oct. 2016, pp. 97-106**.**
13. Haque, M.M, Kim, S.Y., **Ali, M.A.,** and PJ Kim. 2015.Contribution of greenhouse gas emissions during cropping and fallow seasons on total global warming potential in mono-rice paddy soils , **Plant and Soil**, 387:251-264.
14. Papon, KD, Murata, Y, Haque, MA, **Ali, MA**. **2015.** Effect of Soil Salinity and Exogenous Proline Application on Rice Growth, Yield, Biochemical and Antioxidant Enzyme Activities, **EC Agriculture** 2.1 (2015): 229-240.
15. Khan, M.A., Reza, M.O.H., Khan, M.T., and **Ali, M.A**., **2015.** Effect of irrigation water management practices and rice cultivars on methane emission and rice productivity, **International Journal of Innovation and Applied Studies**, 10(2): 516-534.
16. **Ali**, **M.A**., Sattar, M.A, Islam, N and K., Inubushi. **2014**. Integrated effects of organic, inorganic and biological amendments on methane emission, soil quality and rice productivity in irrigated paddy ecosystem of Bangladesh: field study of two consecutive rice growing seasons, **Plant and Soil,** 378:239-252.
17. Singla, A., Dubey, S.K**., Ali**, **M.A.,** and K., Inubushi. **2014.** Methane flux from paddy vegetated soil: a comparison between biogas digested liquid and chemical fertilizer, **Wetlands Ecology and Management, 22(3), DOI 10.1007/s11273-014-9365-3.**
18. **Ali**, **M.A**., Haque, M.A, and P.J., Kim. **2013**. Mitigating global warming potentials of methane and nitrous oxide from rice farming in Bangladesh, **AMBIO,** 42(3): 357-368**.**
19. Meghla, N.T., Islam, M.S., **Ali, M.A.,** Suravi**,** Nargis, S. **2013**. Assessment of Physicochemical Properties of Water from the TuragRiver in Dhaka City, Bangladesh, **Int. J. Curr. Microbiol. App. Sci.** 2(5): 110-122.
20. Suravi, Islam, M.S., **Ali, MA,** Meghla, and NT Nargis, S. **2013**. Seasonal Variations of Physico-chemical Parameters of Water in the Pungli River, Tangail, Bangladesh, **Int. J. Curr. Microbiol. App. Sci.** 2(5): 155-167**.**
21. Lee, C. H., Park, K.D., Jung K.Y., **Ali, M. A**., Lee, D., Jessie Gutierrez and P. J. Kim. **2010**. Effect of Chinese milk vetch (Astragalussinicus L.) as a green manure on rice productivity and methane emission in paddy soil, **Agriculture, Ecosystems and Environment,** 138:343-347.
22. **Ali, M. A**, Lee, C. H., Kim, S.Y., and PilJoo Kim. **2009.** Effect of industrial by-products containing electron acceptors on mitigating methane emission during rice cultivation, **Waste Management**, 29:2759-2764.
23. **Ali, M. A**, Lee, C. H, Lee, Y.B. and PilJoo Kim. **2009**. Silicate fertilization in no-tillage rice farming for mitigation of methane emission and increasing rice productivity, **Agriculture, Ecosystem and Environment**, 132: 16-22.
24. **Ali, M.A**, Ju Hwan Oh, and PilJoo Kim, **2008.** Evaluation of silicate iron slag amendment on reducing methane emission from flood water rice farming. **Agriculture, Ecosystems and Environment**, 128: 21-26.
25. **Ali, M. A,** Chang Hoon Lee, and PilJoo Kim. **2008**. Effect of Silicate Fertilizer on Reducing Methane Emission during Rice Cultivation. **Biology and Fertility of Soils**, 44:597-604.
26. Lee, C.H., Lee, D. K., **Ali, M.A** and PilJoo Kim. **2008**. Effects of Oyster Shell on Soil Chemical and Biological Properties and Cabbage Productivity as a Liming Materials. **Waste Management**, doi: 10. 1016.
27. Lee C.H., Lee, Hyup, Lee, Y.B., Chang, H. H**., Ali, M. A**., Wonki Min, Suk Kim, Pil Joo Kim. **2007**. Increase of Available Phosphorus by Fly-Ash Application in Paddy Soils. **Communications in Soil Science and Plant Analysis** 38: 1551-1562.
28. **Ali, M**.**A**, Ju Hwan Oh, and Pil Joo Kim, **2007**. Suppression of methane emission from rice paddy soils with Fly Ash amendment, Korean Journal of Environmental Agriculture, 26 (2): 141-148.
29. **Ali, M. A**, Lee, C.H. and PilJoo Kim, **2007**. Effect of Phospho-gypsum on reduction of methane emission from rice paddy soils, **Korean Journal of Environmental Agriculture**, 26 (2): 131-140.
30. **Ali, M. A**, Samad, M. A. and M. K. Amin, **2005**. Effect of gamma rays on the growth performance of Bangladesh Clone Tea, **Korean Journal of Environmental Agriculture**, 24(1): 66-70.
31. **Ali, M. A,** Uddin, M.J, and M. Rahman, **2005**. Ginger cultivation under multipurpose tree species in the Hill forest, **Korean Journal of Soil Science and Fertilizer**, 38 (4): 218-221.
32. **Ali, M. A** and Sitara Amin. **2004**. Effect of Irrigation Frequencies on Yield and yield attributes of wheat cultivar ‘Shatabdi, **Pakistan Journal of Food Technology**, 2 (3):145-147.

**(b) Research Articles Published in National Journals (Total number = 26)**

1. Akter, S., Rahman, M.Z., Hoque, M., Rob, M.M., Afroz, T. and **Ali, MA**. 2020.Yield and NPK Uptake of Rice as Influenced by Si Fertilization under Ambient and Elevated Temperature**, Journal of Agriculture, Food and Environment (JAFE),** http://doi.org/10.47440/JAFE.2020.1309.
2. Tithi, N,H,Ali, M.A., and Khan, B. 2020. Characterization of Heavy Metals in Broiler and Fish Feeds from Some Selected Markets of Mymensingh and Tangail Districts**, J Bangladesh Agril Univ** 18(S1): 839–844.
3. Jahan, N., Khan Md B., Ali, M.A., Islam, Md T, and Sifat, S. 2020. Spatial appraisal of groundwater quality for drinking purposes: A case study of a Union in Kalihati Upazila, Bangladesh, **Fundamental and Applied Agriculture 5(4):521-536.**
4. S. Sarker\*, M. A. Farukh, N. Sharmin and M A. Ali, 2019. Assessing the Disaster Induced Migration and Displacement in the South-west of Bangladesh**, J. Environ. Sci. & Natural Resources**, 12(1&2):135-141.
5. Ali, M.A., 2018. Integrated rice duck farming to ensure food security and improving flood water paddy ecosystem through reducing methane emission, **Journal Ministry of Science and Technology,** Bangladesh Secretariat, Dhaka.
6. M. M. H. Sikder, M. A. Baten, M. A. Ali and P. K. Das. 2017. Food Security Status of Tribal People at Mohadevpur Upazila in Naogaon District, ***J. Environ. Sci. & Natural Resources****,* 10(1): 71-74.
7. Zannat, F. Ali. M.A. and Sattar, M.A.2015. Investigation of Some Water Quality Parameters of Pond Water under Mymensingh Municipality **, *J. Environ. Sci. & Natural Resources,* 8(1): 85-89**.
8. Alam, M.J, Shiragi, MHK, Ali, MA, Farukh, MA, and Abdullah Baque, 2015.Effect of organic amendments on Methane emissions and yield of rice. J. Asiatic. Society Bangladesh, Sci.41(2):263-270.
9. Alam, M., **Ali, M.A.,** Sitara, A and Sattar, M.A. **2014.** Impact of Charland development on livelihood status of Charland Dwellers in the Coastal area of greater Noakhali District, Bangladesh **J.Environ.Sci.,** 26:17-24.
10. Hasan,M.T, Ali., M.A., Alam, M.J. and M.N. Uddin. 2013. Impact of Industrial waste disposal on environment and agricultural productivity around the Gazipur district of Bangladesh. **J.Agrofor.Environ.7**(2):75-78.
11. **Ali, M.A.,** G. Farouque, M. Haque. and A.Kabir. **2012**. Influence of soil amendments on mitigating methane emissions and sustaining rice productivity in paddy soil ecosystems of Bangladesh, **Journal of Environmental Science and Natural Resources*5*(1): 179-185.**
12. **Ali, M.A**., Lim, C. S. and Pil Joo Kim. **2009**. Modified System of Rice Intensification for Mitigating Methane Emissions and Sustaining Rice Productivity, **Journal of Environmental Science and Natural Resources**, 2 (2): 233-240.
13. **Ali, M.A**, Lim, C.S. and Pil Joo Kim. **2009**. Methane Flux from Irrigated Paddy Agro-ecosystem and Rice Productivity Associated with the Phenological Characteristics of Rice Cultivars under Silicon Fertilization, **Journal of Environmental Science and Natural Resources**, 2 (1): 191-198.
14. **Ali, M. A.,** Choudhury, A.R. and M. M. Ali, **2004**. Women’s Participation in Homestead Farming Practices, **Bangladesh Journal of Training and Development***,* **17**(1&2): 9-15.
15. **Ali, M. A,** Islam, O., M.A, M. and Islam, M. M. 2003. Growth and yield of wheat at different levels of nitrogen application, **Bangladesh Journal of Training and Development***,* **16.** (1&2): 57-63.
16. **Ali, M. A,** Shahiduzzaman, M. and L. Rahman. 2002, Effects of Agroforestry Practices on Soil fertility and Tea Crop Productivity, **Bangladesh Journal of Training and Development**, **15**. (1&2): 121-127.
17. **Ali, M. A.**, Ali, M. Aftab and Z. Hossain, 2000. Effect of plant density on the growth and biomass production of Guatemala grass and its impact on old tea soil, **Bangladesh Journal of Training and Development***,***13** (1 & 2): 51-56.
18. Shahiduzzaman M. and **Ali, M. A**. 2000. Integrated Management of Old and Young tea for Maximizing Crop Production. **Tea Journal of Bangladesh36** (1 & 2): 15-20.
19. **Ali, M. A.** Alam , A. F. M. B. and M. Shahiduzzaman, 1997. Study on the physiological growth parameters in clonal tea, **Tea Journal of Bangladesh, 33** (1 & 2):1-11.
20. **Ali, M.A,** and M. Shahiduzzaman 1996. Effect of Guatemala and green manuring crops (Lugumes) on rejuvenation of old tea soil, **Bangladesh Journal of Environmental Science**, **3**(1):120-125.
21. Shahiduzzaman, M and **Ali, M.A**. 1996. Effect of different Tipping heights above medium pruned tea bushes on the growth and yield of seeding tea. **Tea Journal of Bangladesh***,* **32** (1& 2): 9-13.
22. **Ali, M. A** and Peter Farage. 1995. Effects of carbon dioxide enrichment on growth and partitioning of dry matter in winter wheat, **Bangladesh Journal of Environmental Science***,***1**(1): 58-66.
23. **Ali, M.A** and S. P. Long. 1995. Climatic change due to increase of global mean temperature: an overall review, **Bangladesh Journal of Training and Development10** (1 & 2): 187-192.
24. **Ali, M.A,** and Peter Farage, 1994. Growth responses of two contrasting grass species to elevated carbon dioxide and Nitrogen concentrations. **Tea Journal of Bangladesh**, **30** (1 & 2): 7-15.
25. Shahiduzzaman, M. and **Ali, M. A.** 1994. Effect of lower tipping and stepping up of plucking above pruning heights on the growth and yield of mature tea. **Tea Journal of Bangladesh***,* **30** (1 & 2): 25-28.
26. **Ali, M.A**., Rahman, M.M., Sattar, M.A. and M. K. Amin, 2005. Study on the plant species density and relative prevalence of tree species in different Tea Estates of Bangladesh, **Bangladesh J. Env. Sci**., 11(1): 90-93.

**Book Chapter Published:**

1. Ali, M.A., Inubushi, K., Kim., P.J. and Sitara amin. 2019.Management of Paddy Soil towards Low Greenhouse Gas Emissions and Sustainable Rice Production in the Changing Climatic Conditions. **Soil Contamination**, Intech Open Publishers.London.U.K.