Curriculum Vitae

Personal data

Name:	Masuda Akter
Address:	Senior Scientific Officer Soil Science Division Bangladesh Rice Research Institute, Gazipur-1701 Bangladesh
Place of birth:	Tangail
Date of birth	15 August, 1982
Nationality:	Bangladeshi
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Education

2013-2018: PhD in Applied Biological Sciences, Department of Environment, Faculty of Bioscience Engineering, Ghent University, Belgium

2011-2013: M.Sc. in Physical Land Resources (Soil Science), Ghent University, Belgium

2006-2007: M.Sc. in Entomology, Bangladesh Agricultural University, Bangladesh

2001-2005: B.Sc. Ag. (Hons.), Bangladesh Agricultural University, Bangladesh

Professional Career

2007-2012: Scientific Officer, Soil Science Division, Bangladesh Rice Research Institute, Gazipur, Bangladesh

2012 to present: Senior Scientific Officer, Soil Science Division, Bangladesh Rice Research Institute, Gazipur, Bangladesh

Research experience

Worked as an investigator in the field of paddy soil fertility and fertilizer management, integrated nutrient management, N mineralization and its controlling (a)biotic factors mostly total C emission as indicator of microbial activity, soil solution chemistry in the sub-tropical (Bangladesh and Sri Lanka) paddy soils, green-house gas emission from paddy fields and climate smart agricultural practices for rice based-cropping systems in Bangladesh.

Language proficiency

Good in English (Reading, Writing, Listening and Speaking).

Computer Skills

Proficiency in word processing, Excel and Power Point, MSTAT, IRRISTAT, SPSS, Surfer, Grapher and so on.

Other Interest

Beside my professional area I like traveling, reading and listening music. I like to travel mainly historical places as I am interested about history and heritage of different places or country or nations. I have also interest on current affairs.

Persons to whom reference may be made

1. Dr. ir. Steven Sleutel
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Department of Environment (Soil Fertility and Nutrient Management Research Group)
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Scientific publications-15

Publications in international peer-reviewed journals

Deroo, H., **Akter, M.,** Mendoza, O., Boeckx, P. and Sleutel, S. 2021. Control of paddy soil redox condition on gross and net ammonium fixation and defixation. Geoderma. 400:115151. https://doi.org/10.1016/j.geoderma.2021.115151.

Deroo, H., **Akter, M.,** Bodé, S., Mendoza,O., Li, H., Boeckx, P. and Sleutel, S. 2021. Effect of organic carbon addition on paddy soil organic carbon decomposition under different irrigation regimes. Biogeosciences. https://doi.org/10.5194/bg-2021-53. (submitted).

Akter, M., Deroo, H., Kamal, A. M., Kader, M. A., Verhoeven, E., Decock, C., Boeckx, P. and Sleutel, S. 2018. Impact of irrigation management on paddy soil N supply and depth distribution of abiotic drivers. Agriculture Ecosystems & Environment. 261, 12–24. https://doi.org/10.1016/j.agee.2018.03.015.

Akter, M., Deroo, H., De Grave, Eddy, Van Alboom, T., Kader, M. A., Pierreux, S., Begum, M. A., Boeckx, P. and Sleutel, S. 2018. Link between paddy soil mineral nitrogen release and iron and manganese reduction examined in a rice pot growth experiment. Geoderma. 326, 9-21. https://doi.org/10.1016/j.geoderma.2018.04.002.

Akter, M., Kader, M. A., Pierreux, S., Gebremikael, M. T., Boeckx, P. and Sleutel, S. 2016. Control of Fe and Mn availability on nitrogen mineralization in subtropical paddy soils. Geoderma. 269, 69-78. http://dx.doi.org/10.1016/j.geoderma.2016.01.036.

Publications in national peer-reviewed journals

Akter, M., M. A. Haque, M. A. Monsur, Quais, M. K. and Begum, H. 2009. Biological activity of celaflor against pulse beetle, *Callosobruchus maculatus* (Fab.). Bangladesh j. entomol. 19, 79-89**.**

Saha, P. K., F. Rahman, **M. Akter**, R. Islam, Hossain, A. T. M. S. and Ali, M. G. 2016. Integrated Nutrient Management for Potato-Maize-T. Aman Rice Cropping Pattern. Bangladesh Rice J. 20 (1), 51-58.

Saha, P. K., **M. Akter**, Hossain, M. and Zaman, S. K. 2012. Zinc and nitrogen interaction in HYV rice grown in calcarious soil. Bangladesh Rice J. 16, 41-45.

Saha, P. K., S M M Islam, **Akter, M.** and Zaman, S. K. 2012. Nitrogen response behavior of developed promising lines of T. Aman rice. Bangladesh J. Agril. Res. 37, 207-213.

Saha, P. K., **M. Akter,** Miah, M. A.M. and Zaman, S. K. 2011. Effects of organic and inorganic sources of K on rice yield and soil k balance in the rice-rice cropping system. Bangladesh J. Agril. Res. 36, 305-311.

Rahman, M. Z., M. A. A. Mamun, Ali, M. P. and **Akter, M.** 2010. Integrated use of cowdung and acacia leaves with inorganic nitrogenous fertilizer in rice cultivation. Bangladesh J. Prog. Sci. & Tech. 8, 275-278.

Rahman, M. Z., M. A. A. Mamun, Ali, M. P. and **Akter, M.** 2010. Nutrient uptake and soil properties as influenced by integrated use of organic manures and inorganic fertilizers in rice cultivation. Bangladesh J. Prog. Sci. & Tech. 8, 291-294.

M. K. Quais, K. S. Islam, M. Jahan, Monsur, M. A. and Akter, M. 2010. Evaluation of neem, mahogoni and karanja oils for their residual effect against pulse beetle, C*allosobruchus chinensis* and seed viability. Bangladesh j. entomol. 20, 99-108**.**

Rahman, F., A. T. M. S. Hossain, **Akter, M.** and Khanam, R. 2009. Effect of different aged poultry litter on growth, yield and economics of wetland boro rice. Eco-friendly Agril. J. 2, 920-925.

Saha, A. K., I. Hossain, M. A. Monsur, Quais, M. K. and **Akter, M.** 2009. Effect of amistar and garlic extract in controlling purple blotch and storage diseases of onion. Bangladesh J. Plant Pathol. 25, 67-70.

Scientific activities

Participation in symposia with oral presentation

Akter, M., Sleutel, S., Kader, M. A., Pierreux, S., Kamal, A. M. and Boeckx, P. 2017. Evaluating the Performance of Water Conserving Technologies in Rice Cultivation to Mitigate Greenhouse Gas Emission. Oral presentation at the 2nd Conference on Conservation Agriculture for Smallholders (CASH-II), 14-16 February 2017, Mymensingh, Bangladesh.

Akter, M., M. A., Kader, S., Pierreux, A. M., Kamal, Boeckx, P. and Sleutel, S. 2016. Depth distribution of abiotic drivers of N mineralization from a continuously and intermittently flooded Bangladeshi paddy soil. Oral presentation at the 5th National Convention and International Agricultural Conference, 29-30 September 2016, Dhaka, Bangladesh.

Akter, M., Kader, M. A., Pierreux, S., Boeckx, P., Kamal, A. M. and Sleutel, S., 2016. Depth distribution of abiotic drivers of N mineralization and methane emission from a continuously and intermittently flooded Bangladeshi paddy soil. Oral presentation at the European Geosciences Union General Assembly. 17-22 April, 2016, Vienna, Austria.

Sleutel S., **Akter, M**., Kader, M. A., Begum, S. A., De Neve, S., 2014. Is there a link between reduction of Fe and Mn and anaerobic N mineralization in floodplain paddy soils in Bangladesh? In: Proceedings of the Paddy soils international workshop: Biogeochemistry of submerged agro-ecosystems: properties, processes, cycles and functions. 21-25 September, 2014, Freising, Germany.

Participation in symposia with poster presentation

Akter, M., Thilakarathna, E. M. S.K., Deroo, H., Kader, M. A., Boeckx, P., Sleutel**,** S., **2017.** Controls of organic N mineralization in paddy soil of Sri Lanka with spatial variation in edaphic factors. Poster presentation at the 6th International symposium on Soil Organic Matter. 3-7 September, 2017**.** Harpenden, United Kingdom.

Pierreux, S., Verhoeven, E., **Akter, M.**, Sleutel, S., Said-Pullicino, D., Romani, M. and Boeckx, P. 2016. Evaluating the relative contribution of methane oxidation to methane emissions from young floodplain soils under alternative irrigation management. Poster presentation at the European Geosciences Union General Assembly. 17-22 April, 2016, Vienna, Austria.

Akter, M., Kader, M. A., Pierreux, S., Boeckx, P., Kamal, A. M. and Sleutel, S. 2015. Greenhouse gas emissions from a continuously and intermittently flooded Bangladeshi paddy field in relation to redox potential, soil moisture and soil solution chemistry depth profiles. Poster presentation at the 5th International symposium on Soil Organic Matter. 20-24 September, 2015. Goerg-August-Universitat, Göttingen, Germany.

Akter, M., Sleutel, S., and Kader, M. A. 2014. Effect of N and water management on greenhouse gas emission and N availability in paddy soils of Bangladesh. Poster presentation at the Paddy Soils international workshop on Biogeochemistry of submerged agro-ecosystems: properties, processes, cycles and functions. 21-25 September, 2014, Freising, Germany.

Deroo, Heleen, **Masuda Akter**, Samuel Bodé, Pascal Boeckx, Haichao Li, Orly Mendoza, and Steven Sleutel. 2018. "Effect of Water-saving Irrigation Management on Soil Organic Matter Decomposition in Paddy Soil." In *Biogeochemical Cycles and Their Role in the Earth System, Thematic Day, Abstracts*.

Deroo, H., **Akter, M.,** Verhoeven, E., Said-Pullicino, D., Romani, M., Boeckx, P., & Sleutel, S. (2018). Processes of CH4 emission in paddy soil under water-saving irrigation management. *23rd National Symposium on Applied Biological Sciences*. Presented at the 23rd National Symposium on Applied Biological Sciences.