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**Research Interest: Weed Science**

#### **List of Research Publications & Scientific Report:**

1. **Masum, S.M.**, Hossain, M.A., Akamine, H., Sakagami, J.I., Ishii, T., Konno, T. and Nakamura, I. (2018). Comparison Study of Allelochemicals and Bispyribac-Sodium on the Germination and Growth Response of *Echinochloa crus-galli* L. *J. Plant Growth Regul.* Springer. <https://doi.org/10.1007/s00344-018-9865-0>
2. **Masum, S.M.**, Hossain, M.A., Akamine, H., Sakagami, J.I., Ishii, T., Gima, S., Kensaku, T. and Bowmik, P.C. (2018). Isolation and characterization of allelopathic compounds from the indigenous rice variety 'Boterswar' and their biological activity against *Echinochloa crus-galli* L. *Allelopathy J. International Allelopathy Foundation.* January 2018. 43(1): 31-42
3. **Masum, S.M.**, Hossain, M.A., Akamine, H., Sakagami, J.I. and Bowmik, P.C. (2016). Allelopathic potential of indigenous Bangladeshi rice varieties. *Weed Biol. Manag. Weed Science Society of Japan.* September 2016. 16:119-131
4. **Masum, S. M.**, Ali, M. H., Hasanuzzaman, M., Chowdhury, I. F., Mandal, M. S. H. and Jerin, R. (2014). Response of variety and population density on yield attributes and yield of boro rice (*Oryza sativa*). *Ann. Agric. Res. New Series.* Publish by: Indian Society of Agronomy. December 2014. 35 (4): 355-361.
5. **Masum, S.M.**, Ali, M.H., Chowdhury, I.F., Manadal, M.S.H. and Haque, M.N. (2014). Effect of NPK and plant extracted pyroligenous acid on yield of boro rice. *Bangladesh Agron. J. Bangladesh Society of Agronomy.* December 2014, 17(2):95-97
6. **Masum, S.M.**, Hasanuzzaman, M. and Ali, M.H. (2013). Threats of *Parthenium hysterophorus* on agro-ecosystems and its management: a review. *Intl. J. Agri. Crop Sci.* Published by: Science Explorer Publications, United Kingdom, October 2013. 6(11): 684-697.
7. **Masum, S.M.**, Malek, M., Mandal, M.S.H., Haque, M.N. and Akther, Z. (2013). Influence of plant extracted pyroligneous acid on transplanted aman rice. *J. Expt. Biosci.* Published by: Bangladesh Bioscience Associates, Dhaka, Bangladesh, July 2013. 4(2): 31-34.
8. **Masum, S.M.**, Ali, M.H., Mandal, M.S.H., Chowdury, I.F. and Parveen, K. (2013). The effect of nitrogen and zinc application on yield and some agronomic characters of rice cv. BRRI dhan33. *Intl. Res. J. Appl. Basic. Sci.* Published by: Science Explorer Publications, Ankara, Turkey, August 2013. 4 (8): 2256-2263.
9. **Masum, S.M.**, Ali, M.H., Mandal, M.S.H., Haque, M.N. and Mahto, A.K. (2012). Influence of *Parthenium hysterophorus*, *Chromolaena odorata* and PRH on seed germination and seedling growth of maize, soybean and cotton. *Bangladesh J. Weed Sci.* Published by: Weed Science Society of Bangladesh, December 2012. 3(1&2): 83-90.
10. **Masum, S.M.**, Ali, M.H., Islam, M.S. and Sultana, S. (2011). Influence of plant spacing and post emergence herbicide on the yield of white jute (*Corchorus capsularis*). *Intl. J. Sustain. Agric.* Published by: IDOSI Publications, Deira, Dubai, UAE, October 2011. 3 (3): 82-87.
11. **Masum, S.M.**, Ali, M.H. and Ullah, M.J. (2010). Performance of seedling rate and urea supergranules on the yield of T. aman rice varieties. *J. Sher-e-Bangla Agric.Univ.* Published by: Director (Research), Sher-e-Bangla Agricultural University Research System (SAURES), Sher-e-Bangla Agricultural University, Dhaka, Bangladesh, January 2010. 4(1): 1-5.

12. **Masum, S.M.**, Ali, M.H., Amin, A.K.M.R., Asaduzzaman, M. and Roy, T.S. (2010). Effect of abiotic factors on quality of jute seed. *Bangladesh Res. Pub. J.* Published by: Invogue Software, Dhaka, Bangladesh, May 2010. **4**(1): 47-52.
13. **Masum, S.M.**, Ali, M.H., Amin, A.K.M.R., Hossain, M.A. and Morshed, M.M. (2010). Effect of biotic factors on seed quality of jute preserved in different conventional seed containers. *Intl. J. Ecotoxi. Agric. Tech.* Published by: Green Field Agro Care, Dhaka, Bangladesh. September 2010. **1**(1): 23-28.
14. **Masum, S.M.**, Ali, M.H. and Ullah, M.J. (2008). Growth and yield of two T. aman rice varieties as affected by seedling number hill<sup>-1</sup> and urea supergranules. *J. agric. educ. technol.* Published by: Agricultural Educators Forum, Dhaka, Bangladesh, December 2008. **11** (1&2):51-52.
15. Ferdous, J., Ali, M.H., Islam, M.S., Chowdhury, I.F., Haque, M.N. and **Masum, S.M.** (2017). Growth and yield of soybean as affected by irrigation and weed control methods. *Bangladesh J. Weed Sci.* Published by: Weed Science Society of Bangladesh, December 2017. **6**(1&2): 17-26.
16. M. Khanam, M.S. Islam, Ali, M.H. Imtiaz Faruk Chowdhury and **Masum, S.M.** Performance of soybean under different levels of phosphorus and potassium. *Bangladesh Agron. J.* 2016, **19**(1): 99-108
17. Akter, N., Amin R., **Masum, S.M.** and Haque, M.N. 2016. Effect of sowing dates and weed control methods on yield components of soybean (*Glycine max* L. MERRILL). *Pak. J. Weed Sci. Res.*, **22**(4): 527-541, 2016
18. Akter, N., Amin, A.K.M.R., Haque, M.N. and **Masum, S.M.** (2016). Effect of sowing date and weed control method on the growth and yield of soybean. Published by Poljoprivreda/Agriculture, June 2016, **22**(1): 19-27.
19. Zaman, H., **Masum, S.M.**, Ali, M.H., Biswas, P.K., Mandal, M.S.H. and Mehraj, H. (2015). Tiller production and yield improvement of T. aman rice varieties through wider spacing. *Middle-East J. Sci. Res.* IDOSI Publications. December 2015, **23** (6): 1114-1121.
20. Haque, M. N., Ali, M.H., Roy, T.S., **Masum, S. M.** and Hossain, M. N. (2015). Growth performance of fourteen potato varieties as affected by arsenic contamination. *J. Plant. Sci.* Science Publishing Group. **3**(1): 31-44.
21. Nahar, L., Ali, M. H., **Masum, S. M.**, Mahbub, M. M. and Haque, S. R. (2015). Performance of prilled urea and urea super granules on the growth and yield of wheat. *Bangladesh Agron. J.* **18**(1): 37-48.
22. Mandal, M. S. H., Ali, M. H., Amin, A. K. M. R., **Masum, S. M.** and Mehraj, H. (2015). Influence of source of nitrogen on growth and yield of wheat. *Intl. J. Agron. Agric. Res.* Published by: INNTPUB. January 25, 2015. **6** (1): 89-95.
23. Mandal, M.S.H., Ali, M.H., Amin, A.K.M.R., **Masum, S.M.**, Mehraj, H. (2014) Assessment of different weed control methods on growth and yield of wheat. *Intl. J. Agron. Agric. Res.* Published by: INNTPUB. November 04, 2014. **5** (5): 65-73.
24. Islam, M.B., Ali, M.H., **Masum, S.M.**, Hasanuzzaman, M., Rahman, A., Hosain, M.T., Islam, M. S., Chowdhury, M.P. and Khalil, M.I. Performance of Aman Varieties as Affected by Urea Application Methods. *App. Sci. Report.* Published by: PSCI publications. December 2013. **3**: 55-62.
25. Hasanuzzaman, M., Ali, M.H., Karim, M.F., **Masum, S.M.** and Mahmud, J.A. (2013). Influence of prilled urea and urea supergranules on growth and yield of hybrid rice. *J. Expt. Biosci.* Published by: Bangladesh Bioscience Associates, Dhaka, Bangladesh, January 2013. **4**(1): 1-8.
26. Hasanuzzaman, M., Ali, M.H., Karim, M.F., **Masum, S.M.** and Mahmud, J.A. (2012). Response of hybrid rice to different levels of nitrogen and phosphorus. *Intl. Res. J. Appl. Basic. Sci.* Published by: Science Explorer Publications, Ankara, Turkey. December 2012. **3** (12): 2522-2528.
27. Jabin, U., Karim, M.F., Hasanuzzaman, M., **Masum, S.M.** and Rahman, A. (2012). Response of mustard to the application method of prilled urea and urea super granule. *Intl. Res. J. Appl. Basic. Sci.* Published by: Science Explorer Publications, Ankara, Turkey. December 2012. **3** (12): 2529-2533.
28. Asaduzzaman, M., Sultana, S., **Masum, S. M.**, Abayawickrama, A.S.M.T. and Karim, M.F. (2012). Varietal differences of dose response rice allelopathy on annual ryegrass. *J. Expt. Biosci.* Published by: Bangladesh Bioscience Associates, Dhaka, Bangladesh, July 2012. **3**(2): 57-62.

29. M. H. Ali, M. S. Islam, M. F. Karim and **S. M. Masum** (2011). Efficacy of weed control methods and plant spacing on the yield of white jute (*Corchorus capsularis*). *Bangladesh J. Weed Sci.* 2 (1&2): 93-96, December 2011
30. Malek, M., Ullah, M.J., Ali, M.H., **Masum, S.M.** and Rahman, A. (2011). Effect of seed rate ratio on wheat-lentil mixed cropping. *Tech. J. Engin. App. Sci.* Published by: Science Explorer Publications, Ankara, Turkey. December 2011. **1**(4): 134-139.
31. Badsha, M.M., Ullah, M.J., Ali, M.H. and **Masum, S.M.** (2011). Performance of wheat-lentil mixed cropping under different seed rate ratio. *Int. J. Ecotoxi. Agric. Technol.* Published by: Green Field Agro Care, Dhaka, Bangladesh, September 2011. **1**(3): 113-119.
32. Asaduzzaman, M., Sultana, S., Roy, T.S. and **Masum, S.M.** (2010). Weeding and plant spacing effects on the growth and yield of blackgram. *Bangladesh Res. Pub. J.* Published by: Invogue Software, Dhaka, Bangladesh, May 2010. **4**(1): 62-68.
33. Asaduzzaman, M., Hossain, M. M. and **Masum, S.M.** (2010). Effect of arsenic in three wheat varieties of Bangladesh. *IJBSM*. Published by: Puspaa Publishing House, Kolkata, India, August 2010. **1**(2): 115-120.

**Published scientific and technical books:**

1. Haque, M.N., Ali, M.H. and **Masum, S.M.** (2016). *Climate Change Impacts on Rice Production in Bangladesh*. LAP Lambert Academic Publishing, 2016 & Germany.
2. **Masum, S.M.** and Ali, M.H. 2012. *Growth and Yield of T. Aman Rice Varieties*. LAP Lambert Academic Publishing, 2012 & Germany.