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8. Area of Interest: Weed Science and Conservation Agriculture
9. List of publication:



List of publication in reputed journal

Indian Journal of Agricultural Science

1. Maity, S. K. and **Mukherjee, P. K.** (2008). Integrated weed management practices in dry direct seeded *boro* rice (*Oryza sativa*). ***Indian Journal of Agricultural Science* 79 (12): 976-979.**
- 2 **Mukherjee, P. K. and** Maity, S. K. (2011). Weed control in transplanted and wet seeded rainy season rice (*Oryza sativa*). ***Indian Journal of Agricultural Science* 81 (2): 134-139**

Indian Journal of Agronomy

3. **Mukherjee, P.K.** and Rai, R.K. (2000). Effect of Vesicular arbuscular mycorrhizae (VAM) and phosphate solubilizing bacteria (PSB) on growth, yield and phosphorus uptake by wheat (*Triticum aestivum*) and chickpea (*Cicer arietinum*). ***Indian Journal of Agronomy* 45(3):602-607**
4. Sah, Raja Ram, Rai, R.K. and **Mukherjee, P.K.** (2000). Effect of green manuring (*Sesbania aculeata*) on growth, yield and phosphorus uptake by wheat (*Triticum aestivum*). ***Indian Journal of Agronomy* 45(4): 707-710.**
5. Maity, S. K., Karmakar, S. and **Mukherjee, P. K.** (2007). Response of ramie (*Boehmeria nivea*) cultivars to nutrient management and planting methods. ***Indian Journal of Agronomy* 52 (3):257-260.**
6. Maity, S. K and **Mukherjee, P. K.** (2008). Integrated weed management in dry direct seeded rainy season rice (*Oryza sativa*). ***Indian Journal of Agronomy* 53 (2):28-32.**

Indian Journal of Weed Science

7. Sarkar, A., **Mukherjee, P. K.** and Bhattacharya, P. M. (2005). Bio-efficacy of Pendimethalin and Fluchloralin in Mustard. ***Indian Journal of Weed Science* 37 (3 & 4): 275-276.**

8. **Mukherjee, P. K.**, Sarkar, A. and Maity, S. K. (2007). Weed dynamics and critical period of weed- crop competition in jute under Terai Agro-climatic Region of West Bengal. *Indian Journal of Weed Science* **39**(1 & 2): 141-143.
9. Sharma, L., Rahaman, S and **Mukherjee, P.K.** (2007). Calculating the dose of isoproturon for wheat-polygonum association through bioassay to Terai Agro-ecological Region of West Bengal. *Indian Journal of Weed Science* **39** (1 & 2): 129-131.
10. Rahaman, S. and **Mukherjee, P.K.** (2008). Effect of tillage and herbicides on seed-bank potential of *Polygonum* spp. in wheat. *Indian Journal of Weed Science* **39** (3 & 4): 81-84.
11. Rahaman, S. and **Mukherjee, P.K.** (2008). Effect of herbicides and tillage on weed flora in wheat (*Triticum aestivum* L.) at Terai Agro-Ecological region of West Bengal. *Indian Journal of Weed Science* **40** (1 & 2).
12. **Mukherjee, P. K.**, Sarkar, A. and Maity, S. K. (2008). Critical period of weed-crop competition in transplanted and wet Seeded *Kharif* Rice (*Oryza sativa* L.). *Indian Journal of Weed Science* **40** (3 & 4): 147-152.
13. **Mukherjee, P.K.**, Pandit, A. and Maity, S.K. (2010). Bioassay of pendimethalin at different moisture levels in wheat for controlling *Polygonum*. *Indian Journal of Weed Science* **42** (1 & 2): 102-103.

Annals of Agricultural Research

14. **Mukherjee, P.K.** and Bhattacharya, S.P. (1999). Comparative study of bioefficacy between new generation microherbicide and traditional voluminous herbicide on transplanted rice culture. *Annals of Agricultural Research*, **20**(4): 509-511
15. **Mukherjee, P.K.** and Rai, R.K. (1999). Sensitivity of P uptake to change in root growth and soil volume as influenced by vesicular arbuscular mycorrhizae (VAM), phosphate solubilizing bacteria (PSB) and P levels in wheat and chickpea. *Annals of Agricultural Research*, **20**(4): 528-530.
16. Abdul Haris, A., Rai, R.K., Safeena, A.N. and **Mukherjee, P.K.** (1999). Available 'N' status of the soil as influenced by phosphorus application and some *kharif* green manure crops grown in succession with some *rabi* crops. *Annals of Agricultural Research*, **20**(4): 522-523.
17. Sah, Raja Ram, Rai, R.K. and **Mukherjee, P.K.** (1999). Effect of green manuring (*Sesbania aculeata*) on available 'N' and 'P' status of the soil after wheat crop. *Annals of Agricultural Research*. **22**(3): 414-416.
18. Sarkar, A. and **Mukherjee, P. K** (2005). Ecology of *Polygonum*: a predominant weed in terai agro-climatic region of West Bengal. *Annals of Agricultural Research*, **26**(3): 462-463.

19. Sarkar, A., **Mukherjee, P. K.**, Dutta, S and Bhattacharya, A (2005). Plant nutrient concentration in *Polygonum* and their removal from soil by *Polygonum*. *Annals of Agricultural Research*, 26(3): 606-607.
20. Sarkar, A. and **Mukherjee, P. K** (2005). Bioassay of some pre-emergence herbicides in mustard-*polygonum* association under terai agro-climatic situation. *Annals of Agricultural Research*, 27(4): 401-403.
21. Sarkar, A. and **Mukherjee, P. K** (2005). Phytotoxicity of pendimethalin in mustard and effect of weed control on plant nutrients' conservation in soil. *Annals of Agricultural Research*, 27(3): 283-287.

Journal of Nuclear Agriculture and Biology

22. **Mukherjee, P.K.**, Rai, R.K. and Singh, C.S. (2000). Utilization of phosphorus by wheat and chickpea as influenced by vesicular arbuscular mycorrhizae (VAM) and phosphate solubilizing bacteria (PSB). *Journal of Nuclear Agriculture and Biology*, 29(1):13-17.
23. **Mukherjee, P.K.**, Rai, R.K. and Singh, C.S. (1999). Effect of different biofertilizers on phosphorus use efficiency in wheat and chickpea. *Journal of Nuclear Agriculture and Biology*, 28(4):200-209.
24. Sah, Raja Ram, Rai, R.K. and **Mukherjee, P.K.** (2000). Utilization of phosphorus by wheat as influenced by preceding green manure crop (*Sesbania aculeata*) using ³²P as a tracer. *Journal of Nuclear Agriculture and Biology*, 29(1):51-53.
25. Abdul Haris, A., Rai, R.K., Safeena, A.N. and **Mukherjee, P.K.** (1999). Utilization of phosphorus by wheat, gram and mustard as influenced by preceding green manure crops. *Journal of Nuclear Agriculture and Biology*, 28(4): 204-208.

Environment and Ecology

26. Maity Swapan Kumar , Karmakar, S., **Mukherjee, P.K.** and Poddar, P. (2009). Improvement on soil fertility, partial factor productivity of nutrients and nutrient uptake through nutrient management practices in ramie (*Boehmeria nivea* L.) under Terai Region of West Bengal. *Environment and Ecology* 27 (3A): 1208-1212.
27. Rahaman S and **Mukherjee, P.K** (2010). Bio-efficacy of herbicides in wheat (*Triticum aestivum* L.) in different tillage systems under *terai* Agro-Ecological region of West Bengal. *Environment and Ecology*, 23 (1):1-5

Journal of Crop and Weed

28. Rahaman S and **Mukherjee, P.K** (2008). Effect of herbicides on weeds and soil microbes in wheat under *Terai* agro-ecological region of West Bengal. *Journal of Crop and Weed*, 4(2): 33-37.
29. Maity S. K. and **Mukherjee P.K.** (2009). Effect of brown manuring on grain yield and partial factor productivity of nutrients in dry direct seeded summer rice (*Oryza*

sativa L.) under *Terai* agro-ecological region of West Bengal. *Journal of Crop and Weed*, 5(2): 31-35.

30. Rahaman S. and Mukherjee P. K (2009). Effect of herbicides on weed-crop association in wheat. *Journal of Crop and Weed* 5(2): 113-116.
31. Rahaman S. and Mukherjee P. K (2011). Bioassay study of pendimethalin in Wheat-*polygonum* association under terai agro-ecological region of West Bengal.

Research on Crops

31. Rahaman S and Mukherjee, P.K (2010). Effect of herbicide on wheat (*Triticum aestivum*) productivity and weed flora in succeeding jute (*Corchorus olitorius* L.) crop under *terai* agro-ecological region of West Bengal. *Research on Crops* 11 (1):20-26.

Acta Horticulture

32. Mukherjee, P.K and Ilangantileke, S. (2002). Dietary intervention with orange fleshed sweetpotato (*Ipomoea batatas* (L.) Lam.) to alleviate vitamin A deficiency in South and West Asia. Proceeding of the first International Conference on sweetpotato, Food and Health for the Future. *Acta Horticulture* (583): 205-210.

Oral presentation

- Pijush Kanti Mukherjee and Swapan Kumar Maity (2009). **Sustainable weed management in dry direct seeded rainy and summer season rice.** Oral presentation in PAWEES 2009 7th International Conference on “Promising Practices for the Development of Sustainable Paddy Fields” held during October 7~9, 2009 in Bogor, Indonesia.