Mrs. Madhumonti Saha

Designation: Scientist
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Research specialization: Soil Science and Agricultural Chemistry; Potassium solubilization; Soil moisture stress management

Professional Experience:

Position Hold	Institution	Period
Scientist	ICAR-IISS, Bhopal, MP	29.06.2018 – continued
Scientist	ICAR-CRIJAF, Barrackpore, WB	16.10.2017 – 28.06.2018
Scientist	ICAR-NAARM, Hyderabad, Telangana	05.07.2017 – 15.10.2017

Awards and Honours:

- CSIR - JRF and NET: 2016
- ICAR - Senior Research Fellowship: 2015
- ICAR - Junior Research Fellowship: 2012
- National Merit Scholarship: 2008

Publications:

Saha, M., Maurya, B. R., Meena, V. S., Bahadur, I., & Kumar, A. (2016). Identification and characterization of potassium solubilizing bacteria (KSB) from Indo-Gangetic Plains of India. Biocatalysis and Agricultural Biotechnology, 7, 202–209.

Saha M., Maurya B.R., Bahadur I., Kumar A., Meena V.S. (2016) Can Potassium-Solubilising Bacteria Mitigate the Potassium Problems in India?. In: Meena V., Maurya B., Verma J., Meena R. (eds) Potassium Solubilizing Microorganisms for Sustainable Agriculture. Springer, New Delhi.

Bahadur, I., Maurya, B. R., Meena, V. S., **Saha, M**., Kumar, A., & Aeron, A. (2017). Mineral Release Dynamics of Tricalcium Phosphate and Waste Muscovite by Mineral-Solubilizing Rhizobacteria Isolated from Indo-Gangetic Plain of India. Geomicrobiology Journal, 34(5), 454-466.

Sarkar A., **Saha M**., Meena V.S. (2017) Plant Beneficial Rhizospheric Microbes (PBRMs): Prospects for Increasing Productivity and Sustaining the Resilience of Soil Fertility. In: Meena V., Mishra P., Bisht J., Pattanayak A. (eds) Agriculturally Important Microbes for Sustainable Agriculture. Springer, Singapore.

Meena, V. S., Zaid, A., Maurya, B. R., Meena, S. K., Bahadur, I., **Saha, M**., Kumar, A., Verma, R., Wani, S. H. (2018). Evaluation of potassium solubilizing rhizobacteria (KSR): enhancing K-bioavailability and optimizing K-fertilization of maize plants under Indo-Gangetic Plains of India. Environmental Science and Pollution Research, 25, 36412–36424.

Ghosh, A., Kumar, S., Manna, M.C., Singh, A.K., Sharma, P., Sarkar, A., **Saha, M**., Bhattacharyya, R., Misra, S., Biswas, S.S., Biswas, D.R. (2019). Long-term in situ moisture conservation in horti-pasture system improves biological health of degraded land. Journal of Environmental Management, 248, 109339.

Sarkar, A., Biswas, D.R., Datta, S.C., Roy, T., Biswas, S. S., Ghosh, A., **Saha, M**., Moharana, P.C., Bhattacharyya, R. (2020). Synthesis of Poly (vinyl alcohol) and Liquid Paraffin-Based Controlled Release Nitrogen-Phosphorus Formulations for Improving Phosphorus Use Efficiency in Wheat. Journal of Soil Science and Plant Nutrition. https://doi.org/10.1007/s42729-020-00249-3