

Name Dr. Arijit Barman
Date of birth 26/05/1988
Designation Scientist (Senior Scale)
Qualification Ph.D.
Email id arijit.barman@icar.gov.in; arijitbarman1988@gmail.com



Educational Qualifications

- Ph.D. (Soil Science and Agricultural Chemistry): ICAR-IARI, New Delhi, India (2018)
- M.Sc. (Soil Science and Agricultural Chemistry): Banaras Hindu University (2012)
- B.Sc. Ag. (Hons): Bidhan Chandra Krishi Viswavidyalaya (2010)

Professional Experience

- Scientist (Sr. Scale) at ICAR-NBSS&LUP, RS, Jorhat, Assam from 17/09/2022 to till date
- Scientist (Sr. Scale) at ICAR-CSSRI, Karnal, Haryana from 1/1/2020 to 16/09/ 2022
- Scientist at ICAR-CSSRI, Karnal, Haryana from 1/4/2016 to 31/12/ 2019
- Scientist at ICAR-NAARM, Hyderabad from 1/1/2016 to 31/3/ 2016

Research Areas

- Remote Sensing (Hyperspectral) and GIS
- Soil Survey and Mapping
- Digital Soil Mapping
- Chemistry and behaviour of Manganese and other nutrients
- Crop simulation modelling of Nitrogen (SOILN)

International Experience

Nominated by ICAR and contributed National soil salinity map to Global Soil Salinity Map of Global Soil Partnership of FAO.

Awards

- Merit Medal of Banaras Hindu University for standing first in Soil Science & Agricultural Chemistry at M.Sc. (Ag.).
- Zonal Awards (from north zone) of Indian Society of Soil Science for best presentation of M.Sc. dissertation.
- Best Poster presentation Award of Indian Society of Soil Survey and Land Use Planning at the International Conference (ICILUPSA-2016)

Honours/Recognitions

- INSPIRE Fellowship – 2013, Department of Science and Technology, New Delhi.
- CSIR Junior Research Fellowship – 2012, Council of Scientific and Industrial Research, New Delhi, India.
- Junior and Senior Research Fellowship – 2010 and 2014, ICAR, New Delhi, India.

Ten Best Research Papers along with NAAS Rating-2022

SNo.	Publication	NAAS Rating
1	Sheoran, P., Sharma, R., Kumar, A., Singh, R.K., Barman, A. , Prajapat, K., Kumar, S. and Sharma, P.C. 2022. Climate resilient integrated soil–crop management (CRISCM) for salt affected wheat agri–food production systems. <i>Science of The Total Environment</i> , 837 , p.155843.	13.96
2	Barman, A. , Sheoran, P., et al. 2021. Soil spatial variability characterization: Delineating index-based management zones in salt-affected agroecosystem of India. <i>Journal of Environmental Management</i> , 296 , p.113243.	12.79
3	Sheoran, P., Kumar, A., Sharma, R., Barman, A. , et al. 2021. Managing sodic soils for better productivity and farmers' income by integrating use of salt tolerant rice varieties and matching agronomic practices. <i>Field Crops Research</i> , 270 , p.108192.	11.22
4	Mukhopadhyay, R., Sarkar, B., Barman, A. , Datta, S.C. and Manjaiah, K.M. 2021. Arsenic adsorption on modified clay minerals in contaminated soil and water: Impact of pH and competitive anions. <i>CLEAN–Soil, Air, Water</i> , 49 (4), p.2000259.	7.77
5	Mondal, B.P., Sekhon, B.S., Paul, P. Barman, A. , Chattopadhyay, A. and Mridha, N., 2020. Vis-nir reflectance spectroscopy as an alternative method for rapid estimation of soil available potassium. <i>Journal of the Indian Society of Soil Science</i> , 68 (3), pp.322-329.	5.31
6	Chattopadhyay, A., Singh, A.P., Singh, S.K., Barman, A. , Patra, A., Mondal, B.P. and Banerjee, K. 2020. Spatial variability of arsenic in Indo-Gangetic basin of Varanasi and its cancer risk assessment. <i>Chemosphere</i> , 238 , p.124623.	13.09
7	Mukhopadhyay, R., Adhikari, T., Sarkar, B., Barman, A. , et al. 2019. Fe-exchanged nano-bentonite outperforms Fe ₃ O ₄ nanoparticles in removing nitrate and bicarbonate from wastewater. <i>Journal of hazardous materials</i> , 376 , pp.141-152.	16.59
8	Barman, A. and Srivastava, R. 2019. Diffused Reflectance Spectroscopy for Characterization of Salt-Affected Soil (SAS) Attributes. <i>Agropedology</i> 29 (01): 11-20.	4.16
9	Mondal, B., Sekhon, B., Sharma, S., Singh, M., Sahoo, R., Barman, A. , Sinha, Y., Chattopadhyay, A. and Banerjee, K., 2017. VIS-NIR Reflectance Spectroscopy for Assessment of Soil Microbiological Properties. <i>International Journal of Current Microbiology and Applied Sciences</i> , 6 , pp.719-728.	5.38
10	Barman, A. , Pandey, R.N., Singh, B. and Das, B. 2017. Manganese deficiency in wheat genotypes: Physiological responses and manganese deficiency tolerance index. <i>Journal of Plant Nutrition</i> , 40 (19), pp.2691-2708.	7.71

Total Publications (Peer-reviewed journals only)

International:12

National:7

Google Scholar link:[Arijit Barman - Google Scholar](#)

Research Gate link: [Arijit Barman \(researchgate.net\)](#)