

# RESUME

**NAME: ARINDAM SARKAR**

**DESIGNATION: ASSISTANT PROFESSOR**

**CONTACTS:**

**1. OFFICIAL ADDRESS FOR CORRESPONDENCE:**

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**4. ORCID ID:** <https://orcid.org/0000-0001-8415-6472>

**5. GOOGLE SCHOLAR PROFILE:**

<https://scholar.google.com/citations?user=ENTUVe8AAAAJ&hl=en>

**6. RESEARCHGATE PROFILE:** <https://www.researchgate.net/profile/Arindam-Sarkar-6>

**7. DATE OF BIRTH:** 12/04/1988

**8. DATE OF JOINING TO THE UNIVERSITY:** 30/11/2015



## 9. ACADEMIC PROFILE

LEVEL	NAME OF THE DEGREE WITH DISCIPLINE/ DEPARTMENT	INSTITUTE	YEAR OF PASSING
MASTER'S	Agril. Chemistry and Soil Science	BCKV	2011
BACHELOR'S	B. Sc. Ag. (Hons.)	Visva Bharati	2009

## 10. EMPLOYMENT HISTORY: (Starting from present position)

POSITION	ORGANIZATION	PERIOD	
		From (Date)	To (Date)
Assistant Professor	BCKV	3.11.2015	Till date

## 11. AREA OF RESEARCH: (Bulleted list)

- ❖ Nutrient Management
- ❖ Soil Physics
- ❖ Soil chemistry
- ❖ Trace/toxic metal pollution
- ❖ Stable isotope
- ❖ Environmental geochemistry
- ❖ Carbon sequestration

## 12. COURSES ASSOCIATED WITH

LEVEL	COURSE NO.	COURSE TITLE	CREDIT
UNDERGRADUATE	EC-362	Deficiency and toxicity of elements in soil, plant and water	2+1
	ES 360	Environmental Studies and Disaster Management	1+1

## 13. LIFE MEMBERSHIP OF ACADEMIC SOCIETIES

1. Indian Society of Soil Survey and Land Use Planning
2. Indian Association of Soil and Water Conservationists
3. Society for Fertilizers and Environment
4. Crop and Weed Science Society

## 14. PROJECT ACTIVITIES

SL. NO.	TITLE OF THE PROJECT	FUNDING AGENCY	ONGOING/ COMPLETED	PI/ Co-PI
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1.	Infrastructural support for establishment of laboratory for testing soil and water quality	Rastriya Krishi Vikash Yojona, Govt. of West Bengal	Completed (2015-2018)	Co-PI
2.	Transfer of Innovative Fruit Based Agroforestry Models for Crop Production & Poverty Alleviation of Farming Community in Red & Laterite Zone of West Bengal	Rural Infrastructure Development Fund	Completed (2015-2018)	Co-PI
3.	Towards Sustainable Livelihood Development in the Command Areas of Check Dams in Paschimanchal, West Bengal Through Promotion of Farmers' Organization and Building Capacities of Stakeholders- A Journey to Assisted Self Reliance	Paschimanchal Unnayan Parshad, Govt. of West Bengal	Completed (2016-2019)	Co-PI
4.	Exploring the possibility of growing millets in red and laterite zone of West Bengal with an emphasis to market linkages	Department of Science and Technology and Biotechnology, Govt. of West Bengal	Completed (2019-2021)	Co-PI

## 15. CAPACITY BUILDING/FACULTY DEVELOPMENT PROGRAMME

### A. ORGANIZED: Nil

## B. ATTENDED

SL. NO.	NAME OF THE PROGRAMME	DURATION	PLACE	ROLE
1.	ICAR sponsored “Analytical tools and techniques for development of soil health card (SHC) and its interpretations”	10 days	ICAR-National Bureau of Soil Survey and Land Use Planning	Trainee
2.	ICAR sponsored “Recent advances in processing technologies for value addition of jute and allied fibers”	10 days	ICAR- National Institute of Research on Jute & Allied Fiber Technology, Kolkata	Trainee
3.	ICAR sponsored “Advance microbial technologies to improve nutrient use efficiency and mitigation of greenhouse gas emission from agriculture”	21 days	ICAR-Indian Institute of Soil Science (IISS), Bhopal	Trainee
4.	ICAR sponsored “Current challenges and strategies for management of soil health and sustainable productivity”	21 days	Jawaharlal Nehru Krishi Viswavidyalaya (JNKVV), Jabalpur	Trainee

## 16. SEMINAR/ SYMPOSIUM/ WORKSHOP etc.

### A. ORGANIZED: Nil

### B. ATTENDED

SL. NO.	NAME OF THE PROGRAMME	DURATION	PLACE	ROLE
1.	International conference on “Agriculture, Food Science, Natural Resource Management and Environmental	2016		

	Dynamics: The Technology, People and Sustainable Development”			
2.	International Symposium on “Eco – Efficiency in Agriculture and Allied Research”	2017		
3.	International conference on “Contemporary Issues in Integrating Climate-The Emerging Areas of Agriculture, Horticulture, Biodiversity, Forestry; Engineering Technology, Fundamental/Applied Science and Business Management for Sustainable Development”	2017		
4.	National conference on “Innovative Farming for Food and Livelihood Security in Changing Climate”	2018		
5.	National workshop on “Current Strategies and Emerging Issues of Soil-Water-Environmental Management in Agriculture System”	2019		
6.	International Seminar on “Agriskills for convergence in research, industry& livelihood”	2019		

## 17. PATENTS/ HONOURS/ AWARDS/ RECOGNITION (Bulleted list)

- Review Editor of Frontiers in Marine Science
- Reviewer of Journals of national and international repute viz., Environmental Monitoring and Assessment; Journal of Paleolimnology; Frontiers in Environmental Science; Cogent Food & Agriculture; Journal of the Indian Society of Soil Science; Indian Journal of Agricultural Sciences; Journal of Soil Salinity and Water Quality; Frontiers in Microbiology; Marine Pollution Bulletin; Frontiers in Marine Science; Journal of Sedimentary Research etc.

## 18. INTERNATIONAL COLLABORATIONS/ INVOLVEMENT, IF ANY (Bulleted list)

Nil

## 19. PUBLICATIONS

### A. BOOKS: Nil

### B. BOOK CHAPTERS (Best 10)

1. Arup Sen, Kaushik Batabyal, Sanchita Mondal, **Arindam Sarkar** and Dibyendu Sarkar (2021). Use of Biofertilizers for Sustainable Agriculture. In *Agriculturally Important Microorganisms: Mechanisms and Applications for Sustainable Agriculture*. Eds. Bibhuti Bhusan Mishra, Suraja Kumar Vinayak and Avishek Pahari. pp 119-136. New India Publishing Agency, New Delhi.
2. Ratneswar Poddar, Arup Sen, **Arindam Sarkar**, Sanmay Kumar Patra, Akbar Hossain (2023). Rehabilitation and Management of Multiple Stresses in Saline and Sodic Soils for Agriculture Sustainability. In *Multiple Abiotic Stress Tolerances in Higher Plants*. Eds. N.K. Gupta, Yuri Shavrukov, R.K. Singhal, Nikolai Borisjuk, pp. 91-105. CRC Press. <https://doi.org/10.1201/9781003300564-7>.
3. Ratneswar Poddar, Arup Sen, **Arindam Sarkar**, Sanmay Kumar Patra, Akbar Hossain. Climate-Smart Advanced Technological Interventions in Field Crop Production Under Problematic Soil for Sustainable Agricultural Development. In: Chakraborty, R., Mathur, P., Roy, S. (eds) *Food Production, Diversity, and Safety Under Climate Change. Advances in Science, Technology & Innovation*. Springer, Cham. [https://doi.org/10.1007/978-3-031-51647-4\\_17](https://doi.org/10.1007/978-3-031-51647-4_17).

### C. RESEARCH PAPERS (Best 10)

1. Parthasarathi Chakraborty, **Arindam Sarkar**, Krushna Vudamala, Richita Naik and B. Nagender Nath (2015). Organic matter — A key factor in controlling mercury distribution in estuarine sediment. *Marine Chemistry*. 173: 302–309. <https://doi.org/10.1016/j.marchem.2014.10.005> (IF: 3.81)
2. Benukar Biswas, Debashis Chakraborty, Jagadish Timsina, Dhurjjoti Prasad Das Roy, Saju Adhikary, Indranil Das, **Arindam Sarkar**, Bikash Ranjan Ray, Supradip Sarkar, Mousumi Mondal, Sahely Kanthal, Udayan Rudra Bhowmick (2021). Replacing winter rice in non-traditional areas by strawberry reduces arsenic bioaccumulation, and improves water productivity and profitability. *Science of the Total Environment*. 788: 147810. <https://doi.org/10.1016/j.scitotenv.2021.147810> (IF: 7.96)
3. Benukar Biswas, Debashis Chakraborty, Jagadish Timsina, Udayan Rudra Bhowmick, Pratap Kumar Dhara, Dipak Kumar Ghosh, **Arindam Sarkar**, Mousumi Mondal, Saju Adhikary, Sahely Kanthal, Kiranmay Patra, Sukamal Sarkar, Rajender Parsad, Bikash Ranjan Ray (2022). Agroforestry offers multiple ecosystem services in degraded lateritic soils. *Journal of Cleaner Production*. <https://doi.org/10.1016/j.jclepro.2022.132768> (IF: 9.30)
4. Kundu, Rajib, **Arindam Sarkar**, Golam Moinuddin, Subhendu Jash, Ratneswar Poddar, and Arup Dey (2023). Response of groundnut to phosphorus and bio-organics in Alfisols of

Red and Laterite zone of India. Journal of Plant Nutrition. 46: 2016-2030.  
<https://doi.org/10.1080/01904167.2022.2155540> (IF: 2.10)

5. Rajib Kundu, **Arindam Sarkar**, Ratneswar Poddar, Subhendu Jash, Golam Moinuddin and Arup Sen (2023). Bio-formulation in combination with inorganic fertilizer improves crop growth, productivity and economics of kharif groundnut (*Arachis hypogaea* L.) in Red and Laterite soils. Archives of Agronomy and Soil Science. 69(15):3438-3454.  
<https://doi.org/10.1080/03650340.2023.2241828> (IF: 2.40)
6. Sanmay Kumar Patra, Ratneswar Poddar, Ranajit Panda, **Arindam Sarkar**, Ahmed Gaber, and Akbar Hossain (2024). Response of cabbage (*Brassica oleracea* var. capitata L.) to different frequencies of irrigation and levels of soil fertilization in a non-saline coastal Typic Endoaquept. Journal of Coastal Conservation, 28(6), pp.1-15.  
<https://doi.org/10.1007/s11852-023-01011-4> (IF: 2.10)
7. Arup Sen, Sk Md Asif, **Arindam Sarkar**, and Himadri Saha (2024). Sorption of sulfur in highly leached humid soils of north east India. Communications in Soil Science and Plant Analysis, <https://doi.org/10.1080/00103624.2024.2321922> (IF: 1.80)
8. Sanmay Kumar Patra, Ratneswar Poddar, **Arindam Sarkar**, Arup Sen, Sudip Sengupta, Rajib Kundu, Sushanta Saha (2024). Irrigation scheduling and nutrient management in green gram cultivation: An evaluation of yield and water productivity, soil water-nutrient dynamics, energy budgeting and profitability. International Journal of Plant Production. <https://doi.org/10.1007/s42106-024-00295-2> (IF: 2.50).
9. Mondal, Udit, Sanmay Kumar Patra, Ratneswar Poddar, **Arindam Sarkar**, Nitai Charan Das, Laila A. Al-Shuraym, Samy Sayed, Ahmed Gaber, and Akbar Hossain (2024). The microsprinkler irrigation system influences the growth, yield, and water productivity and nutrient uptake of aerobic rice under humid subtropical climatic conditions. Paddy and Water Environment: 1-18.
10. Lepcha, Rodrick, Sanmay Kumar Patra, Ratneswar Poddar, **Arindam Sarkar**, Ratneswar Ray, Sulaiman Ali Alharbi, Mohammad Javed Ansari, and Akbar Hossain. "Microsprinkler irrigation in combination with nutrient management influences crop and water productivity and water-nutrient dynamics in large cardamom-growing soils in the hilly sub-Himalayan region of India." Journal of Water and Climate Change (2024): jwc2024683.



31.07.2024

Signature with Date