Dr. Sudipta Tripathi

Assistant Professor
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https://scholar.google.co.in/citations?user=nxz9hiYAAAAJ&hl=en
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Education:

1999	B.Sc. (Hons.) in Chemistry**; Ramakrishna Mission Residential College, Narendrapur**, **University of Calcutta**.
2001	M.Sc. in Agricultural Chemistry and Soil Science**; University of Calcutta**
2007	Ph.D. in Agricultural Chemistry and Soil Science**; University of Calcutta**

Awards and Achievements:

2001	**University Gold Medal** in **Agricultural Chemistry and Soil Science** during MSc**;** University of Calcutta
2001	**Qualified National Eligibility Test (NET) (LS)** in Soil Science/Soil Chemistry/ Fertility/ Microbiology; Agricultural Scientist Recruitment Board (ICAR)
2013	**Elected as fellow of the Institution of Chemist (India)**

Employment Detail:

- **Assistant Professor**, School of Environment and Disaster Management, RKMVERI, Narendrapur campus (**17.12.2022 – Present**)
- **Farm Manager,** Agricultural Experimental Farm, Institute of Agricultural Science, University of Calcutta (**15.12.2004-16.12.2022**)

Research Interests:

Soil quality, Soil fertility, Soil Enzyme, Soil microbes, Saline soil, Bioremediation, Metal microbe interaction, Area specific bio-fertilizer, Organic farming, Waste Management, Vermicomposting.

Research Experience:

2002–2004	**Research Associate,** ICAR-Central Soil Salinity Research Institute, Regional Research Station, Canning Town, Doctoral Research Programme, University of Calcutta, (1st May 2002 to 14th December 2004)

Mentors: **Dr. B.K. Bandyopadhyay**, ICAR-CSSRI, Canning Town; and **Prof. Kalyan Chakraborty**, Calcutta University
Topic: **Studies on physic-chemical, microbiological and biochemical aspects of coastal saline soil under rice-based cropping system.**

Research Guidance:

Degree/Training	Institute	Subject	Guidance	Completed	In progress
Ph.D.	CU	Ag. Chem. & Soil Science	Singly	1	0
	CU	Ag. Chem. & Soil Science	Joint	1	0
	CU	Horticulture	Joint	0	1
M.Sc.	RKMVRI	Agricultural Biotechnology	Singly	12	0
M.Sc.	CU	Ag. Chem. & Soil Science	Singly	13	0
M.Sc.	CU	Environmental Science	Singly	1	0
M.Sc.	Asutosh College, PG	Environmental Science	Singly	2	0

Publications:

Total: 58

International Journals: **27;** National Journals: **25;** Book chapter: **3**(International) and **3** (National)

Google Scholar: Total Citations – 1231, h-index - 15

Ten best publications:

1. **Tripathi, S.,** Kumari, S., Chakraborty, A., Gupta, A., Chakrabarti, K. and Bandyopadhyay, B.K. (2006). Microbial biomass and its activities in salt-affected coastal soils. *Biol. Fertil*. Soils.42: 273-277. **(Citation: 283) (Impact factor: 5.521)**
2. **Tripathi, S.,**Chakraborty, A., Chakrabarti, K. and Bandyopadhyay, B.K. (2007). Enzyme activities and microbial biomass in coastal soils of India. *Soil Biol. Biochem.* 39:2840-2848. **(Citation: 181) (Impact factor: 7.17)**
3. Barua, S.,**Tripathi, S.,**Chakraborty, A., Ghosh, S., andChakrabarti, K. (2012). Characterization and crop production efficiency of diazotrophic bacterial isolates from coastal saline soils. *Microbiological Research*. 167:95-102. **(Citation: 52) (Impact factor: 3.970)**
4. Das, B., Chakrabarti, K., Ghosh, S., Majumdar, B., **Tripathi, S**. and Chakraborty, A. (2012). Effect of efficient pectinolytic bacterial isolates on retting and fibre quality of jute. *Industrial Crops and Product*. 36:415-419. **(Citation: 41) (Impact factor: 5.645)**
5. Khatua, C, Sengupta, S, Balla, V.K., Kundu, B., Chakraborti, A. and **Tripathi, S.** (2018). Dynamics of organic matter decomposition during vermicomposting of banana stem waste using *Eiseniafetida. Waste Management*. 79: 287-295. **Corresponding author (Citation: 37)** (**Impact factor: 7.145)**
6. Gorain, P.C., Sengupta, S., Satpati, G.G., Paul, I. **Tripathi, S.,** Pal. R. (2018). Carbon sequestration in macroalgal mats of brackish-water habitats in Indian Sundarbans:

Potential as renewable organic resource. *Science of the Total Environment*. 626:689-702. **(Citation: 9) (Impact factor: 7.963)**

7. Yuvaraj, A., Karmegam, N., **Tripathi, S.,**Kannan, S., Thangaraj, R. (2020). Environment-friendly management of textile mill wastewater sludge using epigeic earthworms: Bioaccumulation of heavy metals and metallothionein production. *Journal of Environmental Management*. 254: 1-10 **(Citation: 25) (Impact Factor: 4.175)**
8. Paul,K., Saha, C., Nag, M., Mandal, D., Naiya, H., Sen, D.,Mitra, S., Kumar, M., Bose, D., Mukherjee, G.,Naskar, N., Lahiri, S., DasGhosh, U., **Tripathi, S.**, Poddar Sarkar, M., Banerjee, M., Kleinert, A., Valentine, A.J., Tripathy, S., Sinharoy, S. and Seal, A. (2020). A Tripartite Interaction among the Basidiomycete *Rhodotorula mucilaginosa*, N_2-Fixing Endobacteria, and Rice Improves Plant Nitrogen Nutrition. *The Plant Cell*. 32(2): 486-507. **(Citation: 12) (Impact Factor: 11.277)**
9. Khatua, S., Sen Gupta, S., Ghosh, M., **Tripathi, S.** and Acharya, K. (2020). Exploration of nutritional, antioxidative, antibacterial and anticancer status of *Russulaalatoreticula*: towards valorization of a traditionally preferred unique myco-food. J*ournal of Food Science and Technology*. 58(6):2133-2147 (Citation: 5) **(Impact Factor: 2.701)**
10. Yuvaraj, A., Govarthanan, M., Karmegam, N., Biruntha, M., Kumar, D., Arthanari, M., Govindarajan, R., **Tripathi, S.,** Ghosh, S., Kumar, P., Kanna, S. and Thangaraj, R. (2021). Metallothionein dependent-detoxification of heavy metals in the agricultural field soil of industrial area: earthworm as field experimental model system. *Chemosphere*.267: 129240 **(Citation: 6) (Impact Factor: 7.086)**

Selected Book Chapter:

1. Paul, S. K., Dey, S., Dhar, A., Tripathi, S., Bera, M., Ghosh, S., Jana, S., Garai, S., Sarkar, S., Hossain, A., Moulick, D. (2024). Potentials of enzyme biotechnology in urban solid waste management: An assessment. In P. Dahiya, J. Singh, A. Kumar (eds.), *Enzyme Biotechnology for Environmental Sustainability* (pp. 383-414). Academic Press (Elsevier). https://doi.org/10.1016/B978-0-443-22072-2.00010-3.
2. **Tripathi, S.,**Barua, S. and Chakrabarti, K. (2015). Site specific bioinoculants for sustainable agriculture in coastal saline soil. In: Biodiversity and Sustainable Exploitation. Maheshwari, D.K and Saraf, M. (eds.). Springer. Pp 209-234 ISSN 2352-474X ISSN 2352-4758 (electronic). **(International)**
3. **Tripathi, S.** (2014). Study of Soil Quality by Microbial and Biochemical Techniques. Das, C. (ed.- as a book chapter). In: Current Perspectives in Natural Resource Management. Progressive Publications, Kolkata. pp. 268-278. ISBN: 978-81-8064-207-4. **(National)**

Professional Membership:

2007	Life member of the Indian Society of Coastal Agricultural Research.
2013	Fellow of the Institution of Chemists (India)

Professional Training Received:

2020	Participated and successfully completed nine months UNESCO-supported course on "**International Understanding for Human Unity**" organized by The Ramakrishna Mission Institute of Culture, Gol Park, Kolkata in the session 2019-2020.
2018	Participated in one day workshop on "**ISRO outreach programme for eastern region**" organized by Regional Remote Sensing Centre-East, held at New Town, Kolkata on 27/04/2018.

2015 Participated and successfully completed 21 days training programme on "**Advances in Land Resource Inventory for Enhancing Productivity through Agro-Technology Transfer"** organized by ICAR-National Bureau of Soil Survey and Land Use Planning, Regional Centre, Kolkata from 7th January to 27th January, 2015.

2007 Participated and successfully completed two days training programme on "**Operation, Interpretation of sophisticated equipment for evaluation and quality monitoring in the field of Agriculture/Horticulture and Environment"** organized by the "Centre for testing and training for beneficiaries of Agri/Horti development" held at Institute of Agricultural Science, University of Calcutta on 13 and 14th January, 2007.

Social Responsibilities:

- **Skill development on laboratory soil analysis**: Trained up local educated youth to act as soil testing laboratory technician.
- **Skill development on vermicompost production:** Trained up rural youth on technical knowhow of vermicomposting. Few of them have started their own business on vermiculture.

Invited talk/Conferences/Symposium Attended:

- Presented more than 28 invited lectures in SAMETI, ATC University of Calcutta, Jadavpur University, Indian Statistical Institute, Lalbaba College, Netaji Nagar College, Indian Science Congress, Joygopalpur Gram Vikash Kendra, Ramakrishna Mission Ashrama Nimpth etc.