

Name : Dr. Dibyendu Mukhopadhyay

2. **Designation** : Professor and Ex-Head

3. **Department** : Soil Science and Agricultural Chemistry

4. **Contact Details** : Phone No: +91 9434197891(M)

Email ID : dibsm107@gmail.com

5. **Educational qualification**: MSc (Ag), Ph.D.

6. **Professional Experience**: Fifteen years

7. **Area of specialization**: Soil Chemistry, Soil Fertility and Plant nutrition

8. **Area of Interest** : Secondary and micronutrients; heavy metal pollution in soil water-plant systems.

9. **List of publications**: Research Paper : 30



PUBLICATIONS :

1. **Mukhopadhyay, D.** and Das, D.K. (2000). Influence of organic matter, liming materials and zinc in two acid soils of West Bengal. *Research on Crop* **1**(3) : 394-403.
2. **Mukhopadhyay, D.** and Das, D.K. (2001). Effect of organic matter, lime and zinc application on the availability of iron and manganese in acid soils under submergence. *Journal Indian Society of Soil Science* **49** (1) : 80-84.
3. **Mukhopadhyay, D.**, Mani, P.K. and Sanyal, S.K. (2002). Effect of phosphorus, arsenic and farm yard manure on arsenic availability in some soils of West Bengal. *Journal Indian Society of Soil Science* **50** (1) : 56-62.
4. **Mukhopadhyay, D.** and Sanyal, S.K. (2002). Studies on arsenic transport across and down some soils of West Bengal. *Journal Indian Society of Soil Science* **50** (4) : 456-463.
5. Ghosh, A.K., Sarkar, D., Sanyal, S.K. and **Mukhopadhyay, D.** (2003). Distribution of different inorganic fractions of arsenic in some soils of West Bengal. *Journal Indian Society of Soil Science* **51** (2) : 174-178.
6. Ghosal, S.K., **Mukhopadhyay, D.** and Ghosh, T.K. (2003). Effect of arsenic contaminated irrigation water on the uptake of arsenic and phosphorus by rice (c.v. IET – 4094). *Crop Research* **26** (2) : 243-248.
7. **Mukhopadhyay, D.** and Sanyal, S.K. (2004). Complexation and release isotherm of arsenic in arsenic-humic/fulvic equilibrium study. *Australian Journal of Soil Research*. **42** (7) : 815-824.
8. Bhattacharya, A., **Mukhopadhyay, D.** and Sinha, A.K. (2005) . Quantity/Intensity (Q/I) relationship of potassium in some soil series of Terai Agro-ecological region of West Bengal. *Crop Research*. **30** (2) 162-166.

9. Dutta,S. and **Mukhopadhyay,D.**(2006). Effect of liming on phosphorus translocation to rice yield. *Crop Research*. **32**(3):286-288.
10. S.Dutta and **D.Mukhopadhyay (2006)**.Effect of farm yard manure ,lime and phosphorus on different P-fractions in some acid soils of West Bengal. *Indian Agriculturist*.50(3 & 4):143-148
11. Saha, P., Chatterjee R. and **Mukhopadhyay,D.**(2006).Effect of boron and molybdenum on yield and quality of sprouting broccoli under *terai* agroecological region of West Bengal. *Crop Research*. **32** (3) :396-400.
12. Bhattacharya, A and **Mukhopadhyay, D.** (2006). Characterization on Soil-Humic and Fulvic Substances of the Terai Agroecological Region of West Bengal. *Journal Indian Society of Soil Science* . 54(3):265-276
13. Bhattacharya A. and **Mukhopadhyay, D.** (2007). Complexation of Zinc with soil organics in Terai region of West Bengal . *Journal of Interacadimicia* 11(2):186-195
14. Dutta S.and **Mukhopadhyay, D.** (2007) Fractionation Of Inorganic Phosphorus In Some Acid Soils Of West Bengal (India) . *Asian Journal of Soil Science*. **2**(1):18-23
15. Dutta S.and **Mukhopadhyay, D.** (2007) Dynamics of Phosphorus Sorption In Some Acid Soils of West Bengal (India) . *Asian Journal of Soil Science*. **2**(2): 118-127
16. Pati, R. and **Mukhopadhyay, D.** (2008) Inorganic Phosphorus Fractions In Some Acid Soils Under *Terai* Situations Of West Bengal. *Research on Crops* .**9**(1): 57-60
17. **Mukhopadhyay,D.**, Majumdar,K., Pati, R. and Mandal, M.K. (2008) Response of rainfed rice to soil test-based nutrient application in Terai alluvial soils. *Better Crops* .92(4):13-15
18. Mandal, M. K., Pati, R., **Mukhopadhyay, D.** and Majumdar K (2009).Maximization of lentil (*Lens culinaris*) yield through management of nutrients.*Indian Journal of Agricultural Sciences* (ICAR). 79(8):645-7.
19. Pati,R. and **Mukhopadhyay,D.** (2009). Effects of organics influencing the arsenic transport in soil-plant systems. *Indian Journal of Agricultural Sciences* (ICAR). 79(12):996-9.
20. Mandal, M. K., Pati, R., **Mukhopadhyay, D** and Majumdar K (2009). Maximising yield of cowpea through soil test based nutrient application in Terai alluvial soils. *Better Crops-India* **3**(1) , 28-30.
21. Rahman, S., Sinha,A.C. and **Mukhopadhyay,D.** (2011). Effect of water regimes and organic matters on transport of arsenic in summer Rice (*Oryza sativa* L.). *Journal of Environmental Sciences(Elsevier)* 23(4): 633-639
22. Pati,R. and **Mukhopadhyay,D.**(2011). Distribution of Cationic Micronutrients in Some Acid Soils of West Bengal . *Journal Indian Society of Soil Science* 59(2) 125-133.

23. Rahman, S., Sinha,A.C., Pati, R. and **Mukhopadhyay,D.** (2013). Arsenic contamination: a potential hazard to the affected areas of West Bengal, India. *Environmental Geochemistry and Health (Springer)* 35(1)119-132.
24. Ray, S.K. and **Mukhopadhyay, D.** (2012).A study on physicochemical properties of soils under different tea growing regions of West Bengal (India). *International Journal of Agriculture Sciences* 4(8)325-329.
25. Ray, S.K. and **Mukhopadhyay, D.** (2013). Effects of inorganic and organic inputs on yield of Kharif rice (*Oryza sativa*) in West Bengal (India) *Crop Research* 45(1,2& 3) 13-19.
26. Panda, R. and **Mukhopadhyay, D.** (2015). Integrated effect of inorganic nutrients and biofertilizers on yield of rice (*Oryza sativa* L.) and Mungbean (*Vigna radita* L.) under rice-mungbean sequence in an acid soil of West Bengal (India) . *Journal of Agriculture and Technology* ,2(1): 68-73.
27. Biswas,A., **Mukhopadhyay,D** and Biswas,A. (2015). Effect of soil zinc and boron on the yield and uptake of wheat in an acid soil of West Bengal, India. *International Journal of Plant & Soil Science* , 6(4): 203-217 .
- 28 . Pal,D., Patra,P.K. and **Mukhopadhyay, D.** (2015). Characterizing soils under different land use patterns in *Terai* region of West Bengal. *Asian Journal of Soil Science* .10:142-148.
29. Bhanu Sree,M.R., Ghosh, S.K., Chakravarty, S., Pandit,G.K., **Mukhopadhyay, D.**,Medda,P.S. and Ravi Kumar,K. (2015). Effect of pre harvest bunch spray of mineral nutrients on yield and quality of banana (*Musa paradisiaca*) var. Grand naine. *Progressive Research* .10 (Special –IV) : 2153-2155.
30. Kumar ,S.S., Deb, S. ,Bhadoria, P.B.S. , **Mukhopadhyay,D.**, Choudhury,A. and Rakshit,A (2016). Impacts of *Pseudomonas putida* on available soil phosphorus dynamics and crop productivity under lowland rice ecology. *Nature Environment and Pollution Technology*. 15(1) : 227-232.

Popular articles

1. Paschimbanger labanackto mrittika o tar durikaran by **D.Mukhopadhyay**. Annadata, October,2008,Hyderabad (**India**).
2. Technical Bulletin (Arsenic)No.1-2009
3. Technical Bulletin (Arsenic)No.2-2010
4. Technical Bulletin No.1-2010
5. Soil Management and livelihood security by **D. Mukhopadhyay**.pp (58-61),2014 ,Souvenir published by NBSS & LUP (ICAR), Kolkata Chapter,Kolkata-700091 (India).

Conference Proceedings :

1. Comprehensive overview of mitigation options on arsenic entry in food-chain by S. Sarkar,K. Bhattacharya,S. Bhattacharya, S.Mondal,S.C.Kole, C.K.Kundu, P.K.Patra,A.Mukherjee and **D.Mukhopadhyay**. pp.103-113. (2012). Published by DNGM Research Foundation, Kolkata,West Bengal. (India)

2. Transport of arsenic in soil-water-plant systems by R. Pati, A.Sarkar, **D.Mukhopadhyay** and K. Bhattacharya pp.114-118(2012). Published by DNGM Research Foundation, Kolkata, West Bengal.(India).

Book Chapter:

1. Tree borne oilseeds in the context of wasteland management by **D. Mukhopadhyay** pp-75-81.(2012). Lap Lambert Academic Publishing, Germany
2. Weathering and soil development by **D.Mukhopadhyay**, pp136-148 (2015) published by Kalyani Publishers
3. Ion retention and release in soils by **D.Mukhopadhyay**, pp 149-164 (2015). published by Kalyani Publishers

Review Article:

Soil Conservation Issues in India

Ranjan Bhattacharyya , Birendra Nath Ghosh , Pradeep Dogra , Prasanta Kumar Mishra , Priyabrata Santra , Suresh Kumar , Michael Augustine Fullen , Uttam Kumar Mandal , Kokkuvayil Sankaranarayanan Anil , Manickam Lalitha , Dibyendu Sarkar , **Dibyendu Mukhopadhyay** , Krishnendu Das , Madan Pal , Rajbir Yadav , Ved Prakash Chaudhary and Brajendra Parmar ; *Sustainability (2016)*, 8, 565; 1-37, doi:10.3390/su8060565. Impact Factor: 1.343

Research Activities

1. Research experience in ICAR (Indian Council Of Agricultural Research, New Delhi) sponsored project entitled, **“Status, causes and impacts of arsenic contamination in groundwater in parts of West Bengal vis-a-vis management of agricultural systems”(1998-2001).**
2. As a **Principal investigator** in a **PPIC/IPNI -India** sponsored project (2005-2008) entitled, **“Maximizing productivity ,farmer profit of West Bengal”.**
3. As a Co-investigator in a **DBT(Govt. of India)** sponsored project (2005-2008) entitled, **“Productivity improvement of Mungbean.....Terai Agroclimatic Zone of West Bengal”.**
4. As a Consortium Centre **Principal Investigator** of the project(2007-2012) entitled, **“Arsenic in food-chain : Cause, effect and mitigation”**, under **NAIP (ICAR) and funded by the World Bank.**
5. As a Co-investigator in **RKVY(Rastriya Krishi Vikash Yojona)** on **Promotion of Bengal aromatic rice through improved production and processing system** (2008-2012) ,Department of Agriculture, Govt of West Bengal

6. Was involved in Rice Improvement Programme in Terai Region of West Bengal as outlined by the Directorate of Rice Research (DRR), Hyderabad.,India.

7. Involved in **RFWE (Rural Field Work Experience)** programme of the University since 2002.

8. Involved as Co-PI of the QCL, **MOFPI, Govt. of India** from 2007 till date

9. Working on the distribution and transformations of **micro and secondary nutrients** in soil-plant systems under *Terai* situations of West Bengal (India)

- **Member of the Scientific Societies: 3**
- **National Seminar/Symposium : 20**
- **International Seminar/Symposium in abroad: 2**