Assistant Professor

UGC Centre for Advanced Study, Department of Botany
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Dr. Dibyendu Saha

Ph.D, M.Sc, B.Ed (Science)

Academic information links

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Google Scholar https://scholar.google.com/citations?user=hCE6MrMAAAAJ&hl=n

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Research interests

Environmental sustainability in Coal mining region,

Crop genetics, Sustainable breeding to enhance agricultural resilience,

Water footprint, Aquatic toxicity, Bioremediation, exploration, and conservation of aquatic environments,

Carbon footprint, carbon sequestration, and scopes for carbon market.

Publications

Research Articles

1. Nazir, M., Roy, K., Saha, A., and Saha D. (2024). A Sustainable Holistic Approach of Hydroponic Farming for Reclaiming, and Rehabilitating Wastewater: A Review. **Water, Air, & Soil Pollution**, Springer Nature. 235(2024): 1-30. https://doi.org/10.1007/s11270-024-07225-y (**Impact Factor: 3.8**).

2. Saha, D. and Saha, N.C. (2023). Impact of Coal Mining on Ambient Air in Respect of Global Warming: A Critical Approach. **Indonesian Journal of Social and Environmental Issues (IJSEI)**, 4(1): 12-24, https://doi.org/10.47540/ijsei.v4i1.707

3. Saha, D., Mal, J., Mondal, K., Keshri, J.P. and Saha, N.C. (2022). Study of the Phytoplankton Diversity with respect to Water Quality Index in Damalia abandoned coal mine pitlake, Raniganj coalfield, West Bengal, India. **Science and Culture**, 88(5-6): 185-196, https://doi.org/10.36094/sc.v88.2022

4. Saha, D., Keshri, J. P. and Saha, N.C. (2022). Analyses of abandoned coal mine pit water quality compared to the water of regular, conventional sources in respect of its utilitarian perspectives: a special reference to selected abandoned open cast mine pits of Satgram area, Raniganj coalfield, West Bengal. **Ecology, Environment and Conservation**, 28 (May Suppl. Issue): S403-S414. 10.53550/EEC.2022.v28i03s.054

5. Saha, D., Keshri, J.P. and Saha, N.C. (2022). Comprehensive Study on Raniganj Coalfield Area, India: A Review. **Ecology, Environment and Conservation**, 28 (February Suppl. Issue): S387-S398, http://doi.org/10.53550/EEC.2022.v28i02s.062

6. Saha, D., Keshri, J. P. and Saha, N.C. (2021). Sustainable improvement of abandoned open cast coal mine pit: A special reference to Ratibati O.C.P., Raniganj Coalfield, West Bengal, India. **Indian Hydrobiology**, 20(2): 183-193.

7. Saha, D., Keshri, J.P. and Saha, N.C. (2021). Identifying air pollution as a major threat to newly grown ecotourism spot in Baranti, Purulia, West Bengal, India. **Bioscience Biotechnology Research Communications**, 14(4): 1895-1900, http://dx.doi.org/10.21786/bbrc/14.4.76

8. Saha, D., Keshri, J. P. and Saha, N.C. (2021). Air pollution in opencast coal mine is dangerous for human health: A special case study to Kalipahari open cast project Patch-A, Kalipahari colliery, Sripur area, Raniganj Coalfield. **Indian Journal of Natural Sciences**, 12(69): 37133-37145.

9. Saha, D., Keshri, J.P. and Saha, N.C. (2021). Huge increase in Particulate Matter during harvesting of paddy in winter in rural area: A special reference to Murulia village, West Bengal, India. **Advance in Bioresearch**, 12(5): 219-228, 10.15515/abr.0976-4585.12.5.219228

10. Saha, D., Saha, A. and Saha, N.C. (2021). Seasonal variation of water quality and its impact on Fish Diversity in Harabhanga abandoned open cast pit, Raniganj Coalfield, West Bengal, India. **Advance in Bioresearch**, 12(2): 128-134, 10.15515/abr.0976-4585.12.2.128134

11. Saha, D., Keshri, J.P. and Saha, N.C. (2021). Sustainable improvement of air quality during COVID-19 phase: A special reference to Asansol industrial township, West Bengal, India. **International Journal of Biology, Pharmacy and Allied Sciences (IJBPAS)**, 10(7): a-m, https://doi.org/10.31032/IJBPAS/2021/10.6.5531

12. Saha, D., Saha, A. and Saha, N.C. (2021). Seasonal variation of water quality and its sustainable approach in local livelihood in Harabhanga abandoned ocp in Raniganj coalfield, West Bengal, India. **International Journal of Biology, Pharmacy and Allied Sciences (IJBPAS)**, 10(3): a-l, https://doi.org/10.31032/IJBPAS/2021/10.3.5413

13. Saha, D., Saha, A. and Saha, N.C. (2021). Analysis of pollutants in abandoned ocp water and its impact: special reference to Damalia ocp in Raniganj coalfield, West Bengal.

International Journal of Biology, Pharmacy and Allied Sciences (IJBPAS), 10(3): a-J, https://doi.org/10.31032/IJBPAS/2021/10.3.5412

14. Saha, D., Saha, A. and Saha, N.C. (2020). Seasonal variation of Heavy Metals and Fish Diversity on different open cast coal mine pits of Satgram and Kajora areas Raniganj, West Bengal, India. **Bioscience Biotechnology Research Communications**, 13(4): 2226-2232, http://dx.doi.org/10.21786/bbrc/13.4/90

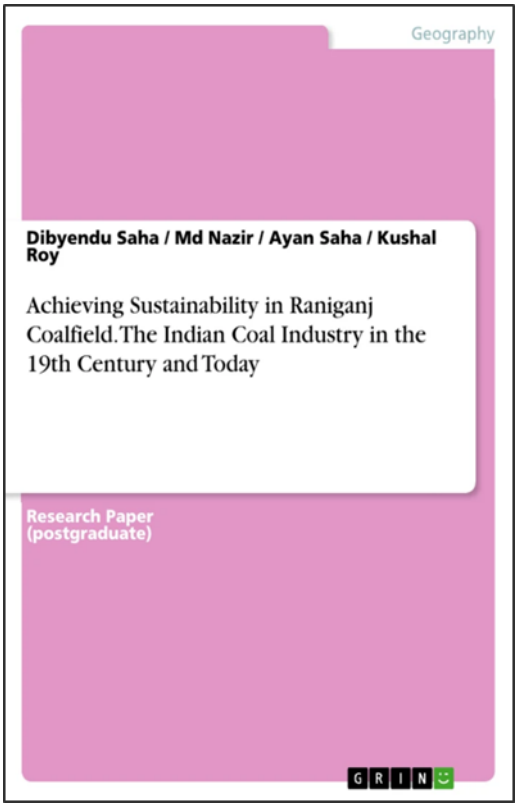
15. Saha, D., Keshri, J.P. and Saha, N.C. (2020). Assessment of seasonal Phytoplankton Diversity of abandoned coal pits in Harabhanga village, Raniganj, West Bengal with reference to pollution status caused by heavy metals. **International Journal of Ecology and Environmental Sciences**, 2(4): 59-66.

16. Saha, D., Keshri, J. P. and Saha, N.C. (2020). Open cast coal mines pit unique habitat of biodiversity: A review. **Indian Journal of Natural Sciences**, 10(62): 27887-27898.

17. Saha, D., Saha, A. and Saha, N.C. (2020). Study on Heavy Metals and Physicochemical properties of water of abandoned open cast coal mine pit: Special reference to Damalia OCP, Raniganj, West Bengal. **Indian Journal of Natural Sciences**, 10(62): 28057-28063.

18. Saha, D., Saha, A. and Saha, N.C. (2020). Analysis of water parameter and its impact in abandoned open cast coal mine pit: special reference to Damalia OCP, Raniganj, West Bengal. **Indian Journal of Natural Sciences**, 10(61): 27533-27540.

Book



1. Saha, D. Nazir, Md, Saha, A., Roy, K. (2024). Achieving Sustainability in Raniganj Coalfield. The Indian Coal Industry in the 19th Century and Today, **GRIN Publishing**, Germany, Pp 1-294, **https://www.grin.com/document/1478213** [**ISBN (eBook): 9783389063989**].

2. Saha, D. (2006). Short Question & Answer Series Botany. **New Central Book Agency (P) Ltd.**, Pp 1-152 (**ISBN: 81-7381-528-3**).

Book Chapters

1. Bhattacharyya, S., Roy, K., Bhattacharyya, R., Nazir, M., Saha, A., and Saha, D. (2024). Sustainable Treatment of Biomass of Aquatic Plants for the Development of Novel Products Especially Bioenergy: Prospects and Constraints. In Agro-waste to Microbe Assisted Value

Added Product: Challenges and Future Prospects: Recent Developments in Agro-waste Valorization Research (pp. 229-245). Cham: Springer Nature Switzerland. Science and Engineering, https://doi.org/10.1007/978-3-031-58025-3_11 (**ISBN: 978-3-031-58024-6**)

2. Nazir, M., Roy, K, Saha, A, & Saha, D. (2024). A novel approach to explore new means of depletion of potable water crisis by phytoremediation of Abandoned Coalmine PL and generate alternate livelihood: A case study of Raniganj Coalfield, West Bengal, India. In Hydrology-Current Research and Future Directions (pp. 1-14). IntechOpen Ltd. London, UK. https://doi.org/10.5772/intechopen.1003927 (**ISBN: 978-0-85466-055-1**).

3. Saha, D., Saha, A. Saha, A. and Saha, N.C. (2020). Air quality change and sustainable development in context to Covid 19 situation at Burdwan town, West Bengal. Impact of Globalization on Higher Education Issues Opportunities Challenges & Future, ISSMWA Publisher, pp 108-115.

4. Saha, D., Keshri, J. P. and Saha, N.C. (2020). Particulate Matter, the Major Cause of Air Contamination and Adverse Impact on Human Health: A Special Reference to Burnpur Industrial Town, West Bengal, India. Research Methodology & ICT Tools for Ph.D Scholars – 2020, organised by Social Science & Management welfare Association & Bharati Vidyapeeth (deemed to be University) New Law College, Pune (India). ISSMWA Publisher, pp 92-104.

Presentation

Delivered in 9 International and National Seminars.

Important participations

- NEP 2020 Orientation & Sensitization Programme-1 under Malaviya Mission Teacher Training Programme (MM-TTP) of University Grants Commission (UGC) organized by The University of Burdwan from 18th April 2024 to 29th April 2024.

- 3 days International Workshop on Research Methodology for Faculties & Research Scholar, organized by Bharati Vidyapeeth (Deemed to be University). New Law College, Pune (Maharashtra), India, and Social Science & Management Welfare Association, July 28-30 2023.

- 5 days National Workshop on "Technological Emergence for Clean Water and Air" (Hybrid Mode), organised by Department of Civil Engineering, National Institute of Technology, Rourkela, May 29 – June 02 2023.

- One-day Workshop on "Intellectual Property, Rights and Protection" sponsored by Dept. of Science & Technology and Biotechnology, Govt. of West Bengal, Organised by Intellectual Property Right Cell, The University of Burdwan, May 18, 2023.

- 5 days "Faculty Development Programme: Teachers' on Disaster Management", organised by National Institute of Disaster Management, Ministry of Home Affairs, Govt. of India in collaboration with Pondicherry University, Pondicherry University, September 2020.

- 5 days International Faculty Development Program cum Workshop on Sustainable Environmental Engineering Practices (SEEP 2020), organised by Dept. of Civil Engineering, NIT Rourkela, India, September 2020.

- 3 days International Conference on Research Methodology & ICT Tools for Ph.D. Scholars organised by Social Science & Management Welfare Association & Bharati Vidyapeeth, New Law College, Pune, India, November, 2020.

Recognitions

State Eligibility Test (SET) conducted by The West Bengal College Service Commission.
Regional Level Selection Test conducted by The West Bengal Regional School Service Commission (Eastern Region).

Education

Ph.D: 2022 UGC Centre for Advanced Studies in Botany, The University of Burdwan, Burdwan, West Bengal, India.

Master of Science (M.Sc): 2002 Botany, Specialization - Cytogenetics from University of North Bengal, West Bengal, India, 1st class.

Degree of Bachelor of Education (B.Ed): 2012. Indira Gandhi National Open University, 1st Class.

Particulars of other activities

DISHA 2000 Course from WEBEL Informatics Ltd.

Dr. Dibyendu Saha

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Updated on dated: 12.09.2024