

CURRICULUM VITAE



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Highlights

- **Ph.D.** from Academy of Scientific and Innovative Research (AcSIR).
- Awarded **DST-INSPIRE Fellowship** from Govt. of India.
- Post Graduate (**Gold Medal**) in **Biotechnology**.
- **Impact factor** of Publications in **SCI Journals = 12.97** with **176 Citations** (Google Scholar).
- Papers in Journals = 11; Book chapters = 6; Papers in conferences = 5; Abstracts = 3.
- **6+ years research experience in Environmental Science.**
- Research Evaluator in Czech Academy of Sciences.
- **Other awards:** Kamala Mallick Prize (2012), GATE 2012 & 2018, R&D Dialogue Award, 2017), DST-INSPIRE SRF, 2016

Academic Qualifications:

Degree/ Major Subjects	Year	School/ Board/University	(Obtained/ Total Marks) Percentage or CGPA	Division
10 th (Six Matric School Subjects)	2003	DeNobili School CMRI Dhanbad ICSE (Council for the Indian School Certificate Examination)	(514/600) 85.7%	1st
12 th (Bioscience + Maths)	2005	DeNobili School CMRI Dhanbad ISC (Council for the Indian School Certificate Examination)	(367/500) 73.4%	1st
BSc. (Hons) Biotechnology	2010	The University of Burdwan, West Bengal, India	(1791/2400) 74.6%	1st
MSc. Biotechnology	2012	The University of Burdwan, West Bengal, India	(977/1200) 81.4%	1st in 1st Class
Ph.D. Chemical Sciences	2019	AcSIR-CSIR–Central Institute of Mining and Fuel Research, Dhanbad, Jharkhand, India	9.43 /10 (course work)	

Research experience:

Post	Time Period	Institute	Department	Remuneration
DST - INSPIRE Fellow (Ph.D.)	(4 years 7 months) 2014 – 2019	CSIR – CIMFR, Dhanbad, Jharkhand, India	Natural Resources and Environment Management	JRF/ SRF scale
Junior Research Fellow	(2 years) 2012 – 2014	Indian Institute of Technology (Indian School of Mines), Dhanbad, Jharkhand, India	Department of Environmental Science and Engineering	JRF scale

Awards received:

- **GATE (15.03.2012)** in Biotechnology; Registration No.: BT4011369; Score: 391; All India Rank: 881, from Ministry of Human Resource Development, Govt. of India.
- **ISM-JRF Fellowship (13.08.2012)** from IIT (ISM) Dhanbad, Jharkhand, India.
- **University Gold Medal Award (22.11.2013)** from The University of Burdwan, W.B., India, for first rank in MSc. Biotechnology of academic session 2010-2012.
- **Late Kamala Mallick Prize (22.11.2013)** from The University of Burdwan, W.B., India, for securing highest marks in MSc. Biotechnology of academic session 2010-2012.
- **GATE (17.03.2018)** in Biotechnology; Registration No.: BT18S44029442; Score: 482; All India Rank: 482, from MHRD, Govt. of India (Valid till March 16, 2021).
- **DST-INSPIRE Fellowship (27.10.2014)** from DST (Department of Science and Technology), Ministry of Science & Technology, Govt. of India.
- **SRF Up gradation (17.11.2016)** from Department of Science and Technology, Govt. of India.
- **R&D Dialogue Award (02.04.2017)** from CSIR- Central Institute of Mining and Fuel Research, Dhanbad, Jharkhand, India, for excellent presentation in lecture series of the year 2016.
- **Research Evaluator in Czech Academy of Sciences (2015 - 2019) 25.08.2020** - Earth and Environment Sciences.
- **Member of IAWEES** (International Association for Water, Environment, Energy and Society - Membership No. 5143, Year **2020**)
- **GATE (19.03.2021)** in Biotechnology; Registration No.: BT21S54014035; Score: 458; All India Rank: 892, from MHRD, Govt. of India (Valid till March 31, 2024).

Skills gained:

- Wet Chemistry and Instrumentation skills @ Research level: atomic absorption spectrophotometer, Elemental CHNS analyzer, Flame photometer, UV-Vis Spectrophotometers, Parameters related to soil and water analysis, plant analysis
- Computer knowledge - Statistical analysis of Data using SPSS, Report writing, Scientific writing skills, Usage of MS Office
- Graduation and Post-graduation level: Microbiological Techniques, Plant tissue culture, Gel electrophoresis systems, Centrifuges

Academic projects completed:

- **Ph.D. Thesis:** “*Studies on Eco restoration of Fly Ash Filled Area with Grass-Legume Mixtures, Bioaccumulation of Heavy Metals and Nutrient cycling*”. [August 2014 – May 2019]
- **CSIR-800 Societal Project:** “*Evaluation of Groundwater Quality for Drinking Purpose in Ratanpur village panchayat, Dhanbad – A societal project*”. [August – September 2017]
- **MSc. Project:** “*Comparative computational approach to genes & proteins involved in P uptake and metabolism by bacteria*”. [July – December 2011]
- **BSc. Project:** “*Environmental microbial flora of a tertiary care hospital*”. [Aug – Sep 2009]

Other certificates:

- **Participation certificate (5th June 2021)** Webinar on “**Innovation and Environmental Sustainability**” Organized by AIC GUSEC, GUSEC, Dept. of Botany, Gujarat University.
- **Participation certificate (4th June 2021)** Online National Seminar on “**Only One Earth**” Organized by Indian Institute of Management Sirmaur.
- **Participation certificate (22nd Mar 2021)** Online National Webinar on “**The Path towards Sustainable Water Management**” Organized by Indian Institute of Management Sirmaur.
- **Participation certificate (1st – 3rd Dec 2020)** International Workshop on Application of Remote Sensing and GIS in Water, Environment, Land and Society Organized by IAWEEES & IHE Delft
- **Bentham Ambassador (2019-2020)** from Bentham Science Publishers, Sharjah, U.A.E.
- **Participation certificate (June 2019)** for attending 3-day “INSPIRE Fellowship Review Meet” sponsored by DST, Govt. of India organized at KIIT, Bhubaneswar, India.
- **Certificate of Recognition (13.11.2018)** for contribution as a reviewer in Current world Environment Journal, indexed in Clarivate Analytics Master Journal list.
- **Participation certificate (15 - 17th February 2017)** **International Conference** on “*NexGen Technologies for Mining & Fuel Industries*” Organized by CSIR–Central Institute of Mining and Fuel Research, Dhanbad at Vigyan Bhawan, New Delhi, India.
- **Participation certificate (24 - 26th January 2017)** **International Conference** on “Deep Excavation, Energy Resources & Production (DEEP16)” Organized by IIT Kharagpur, West Bengal.
- **Participation certificate (22nd March 2015)** **National Workshop** on “Action Plan to Meet the Challenges of Water Crisis in Present Scenario” Organized by The Institution of Engineers and Bharat Coking Coal Limited, Dhanbad.
- **Presentation certificate (24 - 27th February 2015)** **International Conference** on “Plants & Environmental Pollution (ICPEP-5)” Organized by ISEB & CSIR-National Botanical Research Institute.
- **Presentation certificate (23 - 24th January 2014)** **International Conference** on “Emerging Challenges and Issues in Environment Protection” Organized by Raipur Institute of Technology Chhatauna, Raipur, Chattisgarh.
- **Certificate of Excellence (13.02.2011)** for securing 1st Position in BSc. Biotechnology Exam, 2010 from R.I.C.I.S, College affiliated to The University of Burdwan, W.B., India.

PUBLICATION LIST

Cumulative Impact Factor: 12.97; Citations = 176

International Journal (full paper)

1. **Deblina Maiti**, Vimal Chandra Pandey (Published online **2020**, July 31), Metal remediation potential of naturally occurring plants growing on barren fly ash dumps. *Environmental Geochemistry and Health*, 43(4):1415-1426 [Springer Nature, Netherlands; **Science Citation Index**, Q1, Scopus indexed, IF: **3.472**; NAAS ID: E079; NAAS Rating: 8.99; Citations: 13]. <https://doi.org/10.1007/s10653-020-00679-z>; ISSN 1573-2983
2. **Deblina Maiti** (*corresponding author*), Iqbal Ansari, Mohd Ashraf Rather, Arukula Deepa (**2019**, June 11), Comprehensive review on wastewater characteristics discharged from the coal related industries along with their treatment strategies. *Water Science & Technology*, 79(11):2023-2035 [IWA Publishing, UK; **Science Citation Index**, Q2, Scopus indexed, IF: **1.624**; NAAS ID: W012; NAAS Rating: 7.25; Citations: 17]. <https://doi.org/10.2166/wst.2019.195>; ISSN 0273-1223
3. Iqbal Ansari, **Deblina Maiti** (*corresponding author*), Mohammad Imran Khan, Arukula Deepa (**2020**, January), Investigation on Algal Biomass Progression in Polluted Pond Water – The Way Forward *Environmental Engineering and Management Journal*, 19(1):43-53 [“Gheorghe Asachi” Technical University of Iasi, Romania, **Science Citation Index**, Q3, Scopus indexed; IF: **1.186**; NAAS ID: E077; NAAS Rating: 7.33]; ISSN 1582-9596
4. Bably Prasad, **Deblina Maiti**, Krishna Kant Kumar Singh (**2019**, January 05), Impact of Fly Ash Placement in an Abandoned Opencast Mine on Surface and Ground Water Quality: A Case Study. *Mine Water and the Environment*, 38(1):72–80 [Springer-Verlag, Germany; **Science Citation Index**, Q1, Scopus indexed; IF: **1.521**; Citations: 3]. <https://doi.org/10.1007/s10230-018-00577-y>; ISSN: 1025-9112
5. Iqbal Ansari, Ritesh Kumar, Muniyan Sundararajan, **Deblina Maiti**, Mohd Ashraf Rather, Meemshad Ali (**2018**, December 26), Investigation on growth of oil degrading thermophilic bacteria isolated from hot spring. *Biosciences Biotechnology Research Asia* [Oriental Scientific Publishing Company, India], 15(4):805-815 [Thomson Reuters, **Scopus indexed**, Q4, SJR IF: **0.14**; NAAS ID: B121; NAAS Rating: 4.93; Citations: 2]. <http://dx.doi.org/10.13005/bbra/2689>; ISSN: 0973-1245
6. **Deblina Maiti** (*corresponding author*), Bably Prasad (**2017**, September 20), Studies on colonization of fly ash disposal sites using invasive species and aromatic grasses. *Journal of Environmental Engineering and Landscape Management*, 25(3):251-263 [Taylor & Francis; Vilnius Gediminas Technical University, Lithuania, **Science Citation Index**, Q2, Scopus indexed, IF: **0.732**; Citations: 6]. <https://doi.org/10.3846/16486897.2016.1231114>; ISSN: 1648-6897
7. Bably Prasad, **Deblina Maiti**, Adarsh Kumar (**2017**, September 23), Ground water quality evaluation in the lean period of a mining township. *Applied water science*, 7(7):3553–3560 [Springer-Verlag, Germany, **Emerging Sources Citation Index**; Citations: 4]. <https://doi.org/10.1007/s13201-017-0626-1>; ISSN: 2190-5487
8. **Deblina Maiti** (*corresponding author*), Bably Prasad (**2016**, February 16), Revegetation of fly ash - a review with emphasis on grass-legume plantation and bioaccumulation of metals. *Applied Ecology and Environmental Research* 14(2):185-212 [Corvinus University of Budapest, Hungary, **Science Citation Index**, Q3, Scopus indexed, IF: **0.681**; Citations: 32; NAAS ID: A230; NAAS Rating: 6.72]. http://dx.doi.org/10.15666/aeer/1402_185212; ISSN: 1589-1623
9. Bably Prasad, **Deblina Maiti** (**2016**, March 22), A Comparative Study of Metal Uptake by *Eichhornia Crassipes* Growing in Ponds from Mining and Non-Mining Area- A Field Study. *Bioremediation Journal*

20(2):144-152 [Taylor & Francis, UK; **Science Citation Index**, Q2, Scopus indexed, IF: **1.018**; Citations: 29; NAAS ID: B114; NAAS Rating: 7.02]. <https://doi.org/10.1080/10889868.2015.1113924>; ISSN: 1088-9868

10. Subodh Kumar Maiti, **Deblina Maiti** (2015, January 14), Ecological restoration of waste dumps by topsoil blanketing, coir-matting and seeding with grass–legume mixture. *Ecological Engineering* 77:74–84 [Elsevier, Netherlands; **Science Citation Index**, Q1, Scopus indexed, IF: **2.74**; Citations: 55; NAAS ID: E012; NAAS Rating: 9.02]. <https://doi.org/10.1016/j.ecoleng.2015.01.003>; ISSN: 0925-8574
11. **Deblina Maiti**, Subodh Kumar Maiti (2014, March), Ecorestoration of Waste Dump by the Establishment of Grass-Legume Cover. *International Journal of Scientific & Technology Research*. 3(3):37-41 [**Scopus Indexed**, Q3, Citations: 12]; ISSN: 2277-8616.

Book chapter

12. Iqbal Ansari, Maha M. El-Kady, Charu Arora, Muniyan Sundararajan, **Deblina Maiti**, Aarif Khan (March 2021), A review on the fatal impact of pesticide toxicity on environment and human health, In [ed] Suruchi Singh, Pardeep Singh, S. Rangabhashiyam, K.K. Srivastava, *Global Climate Change*, **ISBN: 978-0-12-822928-6**, Chapter 16, Page no. 361-383, Elsevier, Netherlands; Citations: 2. <https://doi.org/10.1016/B978-0-12-822928-6.00017-4>
13. Vimal Chandra Pandey, **Deblina Maiti** (April 2020), Perennial grasses in phytoremediation – challenges and opportunities, In [ed] Vimal Chandra Pandey, Devendra Pratap Singh, *Phytoremediation Potential of Perennial Grasses*, **ISBN: 978-0-12-817732-7**, Chapter 1, Page no. 1-22, Elsevier, Netherlands, <https://dx.doi.org/10.1016/B978-0-12-817732-7.00001-8>.
14. Vimal Chandra Pandey, **Deblina Maiti** (April 2020), Phragmites species – promising perennial grasses for phytoremediation and biofuel production, In [ed] Vimal Chandra Pandey, Devendra Pratap Singh, *Phytoremediation Potential of Perennial Grasses*, **ISBN: 978-0-12-817732-7**, Chapter 5, Page no. 97-110, Elsevier, Netherlands, <https://dx.doi.org/10.1016/B978-0-12-817732-7.00005-5>.
15. Vimal Chandra Pandey, Divya Patel, **Deblina Maiti**, Devendra Pratap Singh (April 2020), Case studies of perennial grasses – phytoremediation (holistic approach), In [ed] Vimal Chandra Pandey, Devendra Pratap Singh, *Phytoremediation Potential of Perennial Grasses*, **ISBN: 978-0-12-817732-7**, Chapter 16, Page no. 337-349, Elsevier, Netherlands. [Citations: 1]. <https://dx.doi.org/10.1016/B978-0-12-817732-7.00016-X>.
16. Iqbal Ansari, **Deblina Maiti**, Raj Shekhar Singh, Muniyan Sundararajan (June 2019), Environmental Issues of Wastewater Contagion in Aquaculture and its Remedial Process, In [ed] J. K. Sundaray, Mohd A. Rather. *Next Generation Research in Aquaculture*. **ISBN 978-93-88668-76-7**, Chapter 10, Page No. 219-246. Narendra Publishing House, Delhi, India.
17. Iqbal Ansari, **Deblina Maiti**, M. Sundararajan, S. K. Singh (March 2018), Utilization of algae for Remediation of Metals from Wastewater, In [ed] Ashok K. Yadav, R.S. Mishra, Manju Tiwari, Vivek Mishra, R.R. Mishra. *Sustainable Technologies for Better Environment*. **ISBN 978-93-86608-51-2**, Chapter 3, Page No. 42-52. Bharti Publications, New Delhi, India.

Conference with ISBN (full paper)

18. **Deblina Maiti**, Bably Prasad (15 - 17th February 2017), Reclamation of fly ash waste dumps by biological means—a scientific approach, In [ed] P.K. Singh, V.K. Singh, A.K. Singh, D. Kumbhakar, M.P. Roy. *NexGen Technologies for Mining & Fuel Industries*. **ISBN 978-93-85926-40-2**. Vol. 2, pp.1011-1022, Allied Publishers, New Delhi, India, Presented in **International Conference NxGnMiFu** organized by CSIR–Central Institute of Mining and Fuel Research, Dhanbad at Vigyan Bhawan, New Delhi, India.

19. Subodh K. Maiti, **Deblina Maiti**, S.P. Rana, M.L. Sahu (25 - 26th October **2014**), Stabilization of Integrated Sponge Iron Plant Waste Dump through Ecological Restoration Approach-A Field Study, Proceedings of **International Conference-** Advances In Civil, Structural and Environmental Engineering (ACSEE) organised by Institute of Research Engineers and Doctors, USA, held in Zurich, Switzerland, **ISBN 978-1-63248-030-9**, DOI: 10.15224/978-1-63248-030-9-05, pp. 21-25.

Other International/National Conference/Workshop/Seminar (full paper)

20. Bably Prasad, **Deblina Maiti**, Krishna K. K. Singh, Kalendra B. Singh (24 - 26th January **2017**), Impact on Water Environment due to fly ash filling in deep abandoned opencast mines: A case Study, In Proceedings: **International Conference** on Deep Excavation, Energy Resources & Production (DEEP16), organized by and held in IIT Kharagpur, West Bengal, India. pp 1-7.
21. **Deblina Maiti**, Bably Prasad (22nd March **2015**), Environmental issues related to mine water: an appraisal Proceeding: Water and Sustainable Development. **National Workshop** on Action Plan to Meet the Challenges of Water Crisis in Present Scenario, organized by The Institution of Engineers and Bharat Coking Coal Limited, Dhanbad, held in BCCL, Dhanbad, Jharkhand, India.
22. **Deblina Maiti**, Iqbal Ansari, Bably Prasad (22nd March **2015**), Treatment of wastewater discharged from different coal-based industries with emphasis on biotechnological approaches, Proceeding: Water and Sustainable Development. **National Workshop** on Action Plan to Meet the Challenges of Water Crisis in Present Scenario, organized by The Institution of Engineers & BCCL, Dhanbad, held in BCCL, Dhanbad, Jharkhand, India.

Abstract in International/National Conference/Seminar proceeding

23. Bably Prasad, **Deblina Maiti** (24 - 27th February **2015**) A Comparative Study of Metal Uptake by *E. Crassipes* Growing in Ponds from Mining & Non-Mining Area-A Field Study, In Abstract Book: 5th **International Conference** on Plants & Environmental Pollution (ICPEP-5), organized by ISEB & CSIR-National Botanical Research Institute, held in CSIR-NBRI, Lucknow, India, pp: 204.
24. **Deblina Maiti**, Subodh K. Maiti (30th January - 1st February **2014**). Ecorestoration of Waste Dump by the Establishment of Grass-Legume Cover. In Volume of Abstracts, (ed.) A. Adhikari, S. Choudhuri, S.Dutta, N. R. Saha, **National Conference** on Environment: Pollution & Protection organized by & held in National Institute of Technology, Durgapur, West Bengal, India, pp: 47.
25. **Deblina Maiti**, Subodh K. Maiti (23 - 24th January **2014**) Grass-Legume Cover Establishment for Ecorestoration of a Waste Dump, Proceedings: **International Conference** on Emerging Challenges and Issues in Environment Protection organized by & held by Raipur Institute of Technology Chhatauna, Raipur, Chattisgarh, India, pp: 18.