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Designation: Assistant Professor in Botany
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Academic Qualification: M.Sc., Ph.D.

Thesis title- “Nutrient dynamics study of few selected tree species of Ramna forest, Burdwan, West Bengal”

Position held: Assistant Professor

Professional association: NA

Area of Research interest: Allelopathy, Forest Ecology & Stress physiology in plants

List of research project: NA

List of published paper in journals:

- ❖ **Das CR, Mondal NK (2018)** Temporal and Vertical Variation of Selected Extracellular Enzyme Activities on Tree Litter Degradation of a Subtropical Forest. *Journal of Agriculture Research*. <https://doi.org/10.1007/s40003-018-0353-3>, ISSN: 2249- 720X//2249- 7218 , **Publisher:** Springer (**National**), **IF-** data not available
- ❖ Debnath P, A Mondal, A Hajra, **CR Das**, NK Mondal (**2018**) Cytogenetic effects of silver and gold nanoparticles on *Allium cepa* roots. *Journal of Genetic Engineering and Biotechnology*, 16: 519-526, ISSN: 1687- 157X, **Publisher:** Elsevier (**International**), **IF=** data not available
- ❖ **Das CR, Mondal NK (2016)** Litterfall, decomposition and nutrient release of *Shorea robusta* and *Tectona grandis* in a sub-tropical forest of West Bengal, Eastern India. *Journal of Forestry Research*, 27(5):1055–1065, ISSN: 1007- 662X//1993-0607 , **Publisher:** Springer (**International**), **IF= 0.748**(2017)
- ❖ **Das CR, U Dey, D Chakraborty, JK Datta and NK Mondal (2015)** Fluoride toxicity effects in potato plant (*Solanum tuberosum* L.) grown in contaminated soils. *Octa Journal of Environmental Research*, 3(2): 111-119. ISSN 2321- 3655, **Publisher:** Scientific Planet Society, (**National**), **IF=0.654**(2015)
- ❖ Mondal NK, KC Pal, M Dey, S Ghosh, **CR Das**, JK Datta (**2015**) Seasonal variation of soil enzymes in areas of fluoride stress in Birbhum District, West Bengal, India. *Journal of Taibah University for Science*, 1–10, ISSN: 1658-3655, **Publisher:** Elsevier (**International**), **IF= 2.409**
- ❖ Mondal NK, **CR Das**, JK Datta (**2015**) Effect of mercury on seedling growth, nodulation and ultrastructural deformation of *Vigna radiata* (L) Wilczek. *Environmental Monitoring and Assessment*, 187:241, DOI 10.1007/s10661-015-4484-8, ISSN: 0167-6369, **Publisher:** Springer (**International**), **IF =1.804**(2018)
- ❖ Mondal NK, D Chakraborty, P Roy, TK Roy, **CR Das**, R Bhaumik, KC Pal, S Medda, JK Datta (**2014**) Correlation between arsenic intoxication and cognitive ability of primary school children of West Bengal. *Asian Pacific Journal of Tropical Disease*, 4(Suppl 2): S850, **Elsevier**, **IF=1.13**(2015)
- ❖ Mondal NK, D Panja, **CR Das**, U Dey, K Das (**2014**) Impacts of vehicle exhaust black soot on germination of gram seed (*Cicer arietinum* L.). *Communication in Plant Science*, 4(1-2): 01-09. ISSN 2237 – 4027, (**National**), **IF-** data not available.

- ❖ Mondal NK, R Bhaumik, U Dey, KC Pal, **CR Das**, A Maitra, JK Datta (2014) Fluoride remediation using floating macrophytes. *Communication in Plant Science*, 4(1-2): 23-33. ISSN 2237 – 4027, (National). **IF-** data not available.
- ❖ Mondal NK, U Dey, S Khatun, K Das, **CR Das** (2014) Toxic Effect of Cigarette Origin Tobacco Leaf (*Nicotiana tabaccum* L.) and Cigarette Smoke Extract on Germination and Bio-Chemical Changes of Bengal Gram (*Cicer arietinum* L.). *Journal of Stress Physiology & Biochemistry*, 10(1):135-144, ISSN: 1997-0838, **Publisher:** Siberian Institute of Plant Physiology & Biochemistry, Russia (International). **IF-** data not available.
- ❖ **Das CR**, P Aditya, JK Datta, NK Mondal (2014) Soil enzyme activities in dependence on tree litter and season of a social forest, Burdwan, India. *Archives of Agronomy and Soil Science*, 60 (3): 405–422. ISSN 0365-0340, **Publisher:** Taylor & Francis (International), **IF=1.76** (2015).
- ❖ Mondal NK, **CR Das**, S Roy, JK Datta, A Banerjee (2013) Effect of Varying Cadmium Stress on Chickpea (*Cicer arietinum* L.) Seedlings: An Ultrastructural Study. *Annals of Environmental Science*, 7:59-70. ISSN 1939-2621, **Publisher:** Northeastern University, Boston, Massachusetts (International). **IF-** data not available.
- ❖ Mondal NK, R. Bhaumik, **CR Das**, P Aditya, JK Datta, A Banerjee, K Das (2013) Assessment of indoor pollutants generated from bio and synthetic fuels in selected villages of Burdwan, West Bengal. *Journal of Environmental Biology*, 34 (5):963-966. ISSN: 0254-2704, **Publisher:** Triveni Enterprises, Lucknow, India (National), **IF =0.83** (2015)
- ❖ Das B, NK Mondal, R Bhaumik, P Roy, KC Pal, **CR Das** (2013) Removal of copper from aqueous solution using alluvial soil of Indian origin: Equilibrium, Kinetic and Thermodynamic study. *Journal of Materials and Environmental Science*, 4 (4): 392-408. ISSN : 2028-2508, **IF =0.76**(2015)
- ❖ **Das CR**, NK Mondal, P Aditya, JK Datta, A Banerjee, K Das (2012) Allelopathic Potentialities of Leachates of Leaf Litter of Some Selected Tree Species on Gram Seeds under Laboratory Conditions. *Asian Journal of Experimental Biological Science*, 3(1): 59-65. ISSN- 0975- 5845, **Publisher:** Society of applied sciences, Agra, India (National). **IF-**data not available.
- ❖ **Das CR**, Bhaumik R, Mondal NK (2012) Effect of iron dusts on physiological responses of gram seedlings (*Cicer arietinum* L.) under laboratory conditions. *Journal of Stress Physiology & Biochemistry*, 8 (3): 37-45. ISSN 1997-0838, **Publisher:** Siberian Institute of Plant Physiology & Biochemistry, Russia (International). **IF-**data not available
- ❖ Bhaumik R, NK Mondal, B Das, P Roy, KC Pal, **CR Das**, A. Banerjee, JK Datta (2012) Eggshell Powder as an Adsorbent for Removal of Fluoride from Aqueous Solution: Equilibrium, Kinetic and Thermodynamic Studies. *E-Journal of Chemistry*, 9(3):1457-1480. ISSN: 0973-4945, **Publisher:** Hindawi, **IF =1.726**(2017)

List of books written/edited: NA

List of paper Presentation in Seminar/Conference/workshops etc.:

- ❖ State level “3rd Regional (WR) Science and Technology Congress- 2018” organized by Sidho Kanho Birsha University, Purulia, West Bengal held on 20-21th December 2018. Title of the Paper- “An enzymatic approach to plant nutrient transformations in soils during litter decomposition of forest species, Bardhaman, West Bengal”

- ❖ National seminar on “*Biodiversity conservation and Bio-resource management benefitting man and nature*” organized by department of Botany and Zoology, Bankura Sammilani College, Bankura, West Bengal held on 11th December 2018. Title of the Paper: “Leaf litter decomposition of five plant species in a sub-tropical forest of Bardhaman, West Bengal”.
- ❖ International seminar on “*Frontiers in Biological Environmental and Medical sciences*” organized by The University of Burdwan, West Bengal held on 8-10th March 2018. Title of the Paper- “Leaf litterfall and degradation pattern of selected tree species in a sub-tropical forest of Purba Bardhaman, West Bengal”.
- ❖ International seminar on “*Science past, present and future*” organized by Shyamsundar College, Purba Bardhaman, West Bengal held on 12th Dec 2017. Title of the Paper- “Leaf litter decomposition and nutrient release of selected tree species in a sub-tropical forest of Purba Bardhaman, West Bengal”.
- ❖ State level “*2nd Regional (WR) Science and Technology and Biotechnology Congress- 2017*” organized by The University of Burdwan, West Bengal held on 16-17th Nov. 2017. Title of the Paper- “A comparative study of leaf litter degradation through kinetic modelling of few selected tree species of a sub-tropical forest, Burdwan, West Bengal”.
- ❖ International seminar on “*International Science Seminar*” organized by Burdwan Raj College, Purba Bardhaman, West Bengal held on 16-17th Nov. 2017. Title of the Paper- “Leaf litter production, chemistry and temporal decomposition dynamics of few selected tree species of Ramna forest, Burdwan, West Bengal”.
- ❖ ISMPP (east zone) and National seminar on “*Impact of changing environment on plants, microbes and their interactions*” organized by Department of Botany, Visva- Bharati University, Santiniketan, Birbhum, West Bengal held on 13-14th Sept. 2017. Title of the Paper- “A study of multifold ecological benefits of leaf litter as an ecosystem service with particular reference to nutrient dynamics”.
- ❖ State level “*1st Regional Science and Technology Congress- 2016*” organized by Bankura Christian College, Bankura, West Bengal held on 7-8th November 2016. Title of the Paper- “Impact of litter substrate quality and soil nutrients on leaf litter decomposition dynamics in a subtropical reserve forest in Eastern India”.
- ❖ UGC sponsored National seminar on “*Challenges of Biology in the 21th century*” organized by Department of Botany, MUC College, Burdwan, West Bengal held on 1- 2nd Dec 2011. Title of the Paper- “Spatial and temporal variation of soil exocellular enzymes influence by litter types of a social forest in Burdwan”.
- ❖ UGC sponsored (National) on “*Pollution: Disbalancing the global environment: threats and prevention*” organized by Department of Botany, Bolpur College, Birbhum, West Bengal held on 5-6th March 2011. Title of the Paper- “Biochemical nature of mature leaf, leaf litter, and leaf leachate of few selected tree species and allelopathic effects of leaf leachate on seed germination of gram seed (*Cicer aurietinum*)”.

List of participation in seminar/workshops etc.:

- State level science seminar on “*21st West Bengal Science and Technology Congress- 2014*” organized by Burdwan University held on 20- 21th February 2014.
- Workshop on “*health and social awareness camp*” for teachers held on 14 -15th February 2015 organized by Indian Red Cross society at Burdwan Municipal high school, Burdwan, West Bengal.

List of participation in orientation/refresher/winter or summer school/STC etc. courses: NA

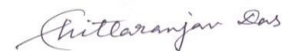
List of special training courses/camp attended as NSS/NCC programme/cadet officer: NA

Any other information:

- Administrative experiences: Answer scripts Evaluator and Practical Examiner of Botany and Environmental Studies of Undergraduate Examination of KNU & BU.

List of journals where acts as reviewer:

- Environmental Nanotechnology, Monitoring & Management (Elsevier)
- Applied Water Science (Springer)



Signature