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<b>Academics Qualification</b>	M.Sc., M.Phil.,NET, Ph.D. (Environmental Science) M.Sc. (Botany)
<b>Area of Specialization</b>	Non-clinical Epidemiology,
<b>Research Interest</b>	<ul style="list-style-type: none"> <li>▪ Metal toxicity and nutrient intake interaction and disease susceptibility in human,</li> <li>▪ Plant-Metal interaction-uptake kinetics,</li> <li>▪ VOCs release and microclimatic changes</li> </ul>  <a href="https://scholar.google.com/citations?hl=en-US&amp;user=LMP3u6gAAAAJ">https://scholar.google.com/citations?hl=en-US&amp;user=LMP3u6gAAAAJ</a>  <a href="https://www.researchgate.net/profile/Anirban_Biswas6">https://www.researchgate.net/profile/Anirban_Biswas6</a>
<b>Publications</b>	<p><b><i>Journals(* corresponding author)</i></b></p> <ol style="list-style-type: none"> <li>1. [2021] Biswas S, Biswas A*. Anxiety level among students of different college and universities in India during lock down in connection to COVID-19 pandemic. <i>Journal of Public Health</i>, ISSN: 2198-1833 (Print)/ 1613-2238 (Online) [Springer, IF-2.41, UGC Journal No. 23417]. DOI: 10.1007/s10389-020-01431-8</li> <li>2. [2020] Biswas S, <u>Biswas A</u>, Das A, Banerjee S. Biomass model development for carbon stock estimation in the tropical forest of Eastern India: an allometric approach. <i>Tropical Ecology</i>. ISSN:0564-3295(Print)/2661-8982(Online)[Springer, IF-0.736, UGC Journal No. 35114]. DOI: 10.1007/s42965-020-00098-2</li> <li>3. [2020] <u>Biswas A*</u>, Biswas S, Bhowmik A. Psychological Impact of Medical Professionals Handling COVID-19 Patients in Hospitals. <i>Journal of Toxicology and Risk Assessment</i>. [Clinmed Int, UGC Journal No. 05643295]DOI: 10.23937/2572-</li> </ol>

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4. [2020] Biswas S, Biswas A, Das A, Banerjee S. Phytosociological assessment and carbon stock estimation in the tropical dry deciduous forest of Bihar. *Ecofeminism and Climate Change*. ISSN: 2633-4062.[Emerald Publishing]. Accepted
5. [2019] Biswas A\*. A systematic review on arsenic bioavailability in human and animals. *Reviews of Environmental Contamination and Toxicology*. ISSN: 0179-5953,398:1-29. [Springer, IF-7.563, UGC Journal No.34102, PMID:31032526] DOI: [10.1007/398\\_2019\\_28](https://doi.org/10.1007/398_2019_28)
6. [2019] Biswas A, Swain S, Chowdhury NR, Joardar M, Das A, Mukherjee M, Roychowdhury T. Arsenic contamination in Kolkata metropolitan city: perspective of transportation of agricultural products from arsenic-endemic areas. *Environmental Science and Pollution Research*. ISSN:0944-1344(Print)/1614-7499(Online), 26(22):22929-22944 [Springer, IF-3.306, UGC Journal No.19836]
7. [2018] Biswas A\*, Biswas S, Das A, Roychowdhury T. Spatial variability and competing dynamics of arsenic, selenium, iron and bioavailable phosphate from ground water and soil to paddy plant parts. *Groundwater for Sustainable Development*. ISSN:2352-801X, 7:328-335. [Elsevier, IF-1.802, UGC Journal No.28121]
8. [2018] Biswas S, Biswas A, Mishra TK. Ethnobotanical study at Bachel Iron Ore Mines of Dantewada, South Bastar, Chhattisgarh, India. *International Research Journal of Biological Sciences*,7(4):7-12. ISSN 2278-3202 [ISCA, UGC Journal No. 42769].
9. [2018] Biswas A\*, Das A, Guha Mazumder DN. Non-cancer risk assessment of arsenic safe and unsafe water uses: bayesian estimation on cohort study. *Human and Ecological Risk Assessment*. ISSN: 1080-7039 (print)/1549-7860 (online); 25:835-850.[Taylor & Francis, IF-2.300, UGC Journal No. 29553].
10. [2018] Biswas A\*, Das A, Deb D, Ghose A , Guha Mazumder DN. Cancer risk estimation from dietary arsenic, a new approach from longitudinal cohort study. *Stochastic Environmental Research and Risk Assessment*.ISSN:1436-3240(print)/436-3259(online), 32(4):1035-1050. [Springer, IF-2.807, UGC Journal No.33768]
11. [2018] Das A, Biswas A, Guha Mazumder DN. Association between skin lesion and arsenic concentration in hair by mixed bivariate model in chronic arsenic exposure. *Environmental Geochemistry and Health*. ISSN: 0269-4042(print)/1573-2983(online), 40(6):2359-2369 [Springer, IF-3.662, UGC Journal No.19780, PMID:29582264]

12. [2017] Biswas A\*, Das A, Roychowdhury T, Guha Mazumder DN. Low arsenic exposure risk in endemic population, cohort study for consecutive years. *Exposure and Health*. ISSN:2451-9766(print)/2451-9685(online), 10(4):273-286. [Springer, IF-6.232, UGC Journal No.29162].
13. [2017] Mitra S, Biswas A, Bhowmick S, Roy Chowdhury N, Roychowdhury T. A short communication on groundwater scenario in India: past, present and future. *Indian Groundwater*, 8: 7-19, [ISSN: 2347-8063, UGC Journal No. 40864].
14. [2017] Bhattacharya R, Biswas A, Bhattacharjee S, Bhattacharjee P. Occupational Lung Diseases: Causes, consequences and Challenges. *Current World Environment*, 12(2):1-10. [ISSN: 0973-4929, NAAS - 4.98]
15. [2017] Biswas S, Biswas A. Assessment of supporting ecosystem services in mixed humid subtropical forest of West Bengal, India. *Indian Journal of Tropical Biodiversity*, 25(1): 82-86. [ISSN:0971-4642, NAAS - 4.02, UGC Journal No.20895]
16. [2014] Biswas A\*, Deb D, Ghose A, Du Laing G, De Neve], Santra SC, Guha Mazumder DN. Dietary arsenic consumption and urine arsenic in an endemic population: response to improvement of drinking water quality in a 2-year consecutive study. *Environmental Science and Pollution Research*. ISSN:0944-1344(Print)/1614-7499(Online), 21:609-619. [Springer, IF-3.306, UGC Journal No.19836, PMID:23818078]
17. [2014] Biswas A\*, Deb D, Ghose A, Santra SC, Guha Mazumder DN. Seasonal perspective of dietary arsenic consumption and urine arsenic in an endemic population. *Environmental Monitoring and Assessment*. ISSN:0167-6369(Print)/1573-2959(Online), 186: 4543-4551. [Springer, IF-2.273, UGC Journal No.19807, PMID:24676993]
18. [2014] Majumdar KK, Ghose A, Ghose N, Biswas A, Guha Mazumder DN. Effect of Safe Water on Arsenicosis: A Follow-up Study. *Journal of Family Medicine and Primary Care*. 3(2):124-128. [ISSN: 2249-4863, UGC Journal No.7547, PMID:25161968]
19. [2014] Biswas S, Biswas A, Khan DK. Impact of forest fragmentation and species loss on nutrient cycling in the tropical dry deciduous forests of West Bengal. *Indian Forester*, [ISSN: 0019-4816]. 140(8):812-819. NAAS-4.27
20. [2013] Biswas A\*, Biswas S, Santra SC. Arsenic in irrigated water, soil, and rice: perspective of the cropping seasons. *Paddy and Water Environment*. ISSN:1611-2490(Print)/1611-2504(Online); 12:407-412. [Springer, IF-1.394, UGC Journal No.36817]
21. [2013] Biswas A\*, Biswas S, Lavu RVS, Gupta PC, Santra SC. Arsenic prone rice cultivars-a study in endemic region. *Paddy and Water Environment*, ISSN:1611-

2490(Print)/1611-2504(Online); 12:379-386. [Springer, IF-1.394, UGC Journal No.36817]

22. [2013] Biswas A\*, Basu B, Bhattacharya K, Guha Mazumder DN, Santra SC. Species level study on arsenic availability from dietary components. *Toxicological and Environmental Chemistry*. ISSN:0277-2248 (Print)/1029-0486 (Online), 95 (3):529–540. [Taylor&Francis, IF- 1.149; UGC Journal No.2187]
23. [2013] Deb D, Biswas A, Ghose A, Das A, Majumdar KK, Guha Mazumder DN. Nutritional deficiency and arsenical manifestations: a perspective study in arsenic endemic region of West Bengal, India. *Public Health Nutrition*, ISSN:1368-9800 (Print)/1475-2727 (Online),16(9):1644-1655. [Cambridge, IF-3.182, UGC Journal No.32261, PMID:23182268]
24. [2013] Guha Mazumder DN, Deb D, Biswas A, Saha C, Nandy A, Ganguly B, Ghose A, Bhattacharya K, Majumdar KK. Evaluation of dietary arsenic exposure and its biomarkers: a case study of West Bengal, India. *Journal of Environmental Science & Health Part- A*, ISSN:1093-4529(Print)/ 1532-4117 (Online),48:1-9. [Taylor&Francis, IF-1.724, UGC Journal No.7417, PMID:23485239]
25. [2013] Guha Mazumder DN, Deb D, Biswas A, Saha C, Nandy A, Das A, Ghose A, Bhattacharya K, Mazumdar KK. Dietary arsenic exposure with low level of arsenic in drinking water and biomarker: A study in West Bengal. *Journal of Environmental Science & Health Part- A*, ISSN:1093-4529(Print)/ 1532-4117 (Online), 49: 1-10. [Taylor&Francis, IF-1.724, UGC Journal No.7417, PMID:24410686]
26. [2013] Paul S, Bhattacharjee P, Mishra PK, Chatterjee D, Biswas A, Deb D, Ghose A ,Guha Mazumder DN, Giri AK. Human urothelial micronucleus assay to assess genotoxic recovery by reduction of arsenic in drinking water: A cohort study in West Bengal, India. *Bio Metals*,ISSN:0966-0844(print)/1572-8773(online),26:855-862. [Springer, IF-2.653, UGC Journal No.14814]
27. [2013] Biswas S, Biswas A, Sinha S, Khan DK. Major nutrient cycling of two different tropical dry deciduous forest of West Bengal, India. *Journal of Ecology and Environmental Sciences*, ISSN: 0976-9900,3(3):77-81. [CI=4.53, Bioinfo Publication]
28. [2013] Biswas S, Biswas A, Khan DK. Vulnerability of species in fragmented forest habitats at Matha Protected Forest, Purulia, India. *The Journal of Biodiversity*. 112:166-175 [Photon Publication, ISJN 8359-6193]
29. [2012] Biswas A\*, Biswas S, Santra SC. Risk from winter vegetables and pulses produced in arsenic endemic areas of Nadia District: field study comparison with market basket survey. *Bulletin of Environmental Contamination and Toxicology*, ISSN:0007-4861(Print)/1432-0800(Online),88(6): 909-914.

[Springer, IF-1.707, UGC Journal No.9552, PMID:22392004]

30. [2012] Biswas A\*, Santra SC. Arsenic distribution in winter rice and vegetable crops –in vivo micro level study in a contaminated region. *International Research Journal of Agricultural Science and Soil Science*. 1(6):205-210,[ISSN:2251-0044]
31. [2011] Biswas A\*, Majumdar J, Santra SC. Potential arsenic enrichment problems of rice and vegetable crops. *International Journal of Research in Chemistry and Environment*, ISSN: 2248-9649, I (1): 29-34 [IF-0.423]
32. [2011] Biswas A\*, Samal AC, Santra SC. Arsenic in relation to protein content of rice and vegetables. *Research Journal of Agricultural Science*. 3(1): 80-83. [ISSN: 0976-1675, NAAS-4.54, UGC Journal No.45737]

### ***Book Chapters/ Book Reviews***

1. [2022] Shibam Mitra, Riccardo Campo, Subhojit Bhowmick, Anirban Biswas. Membrane bioreactors for the treatment of oily wastewater: pros and cons in *Advances in Oil-Water Separation*, [Ed] Papita Das, Suvendu Manna and Jitendra Kumar Pandey <https://doi.org/10.1016/B978-0-323-89978-9.00007-0>.
2. [2020] Manna S, Roy U, Biswas A\*, Sengupta S, Basak P, Das P. Review on Trends in the Removal of Pharmaceuticals and Personal Care Products (PPCPs) from Water and Wastewater, In 'Contaminants in Drinking and Wastewater Sources', Springer Transactions in Civil and Environmental Engineering, (Ed) M. Kumar et al. [Springer] [https://doi.org/10.1007/978-981-15-4599-3\\_10](https://doi.org/10.1007/978-981-15-4599-3_10), eISBN978-981-15-4599-3.
3. [2019] Biswas A, Manna S, Das P. Application of Nano materials in CO<sub>2</sub> sequestration, In 'Chemo-enzymatic systems for CO<sub>2</sub> utilization', (Eds) Nanda AK, et al. [CRC Press, Taylor and Francis] [10.1201/9780429317187-8](https://doi.org/10.1201/9780429317187-8), eBook ISBN9780429317187.
4. [2018] Biswas A, Sarkar, A, Singh P, Mohapatra S, Singh RP. Biofuels: perspective of Environment, Economy and Society, In *Biofuels: Advances and Future Perspective*. Eds.: G Kaushik, S.S. Patil, S. Chaturvedi, A. Chel. [Studium Press, LLC, USA. ISBN-978-93-85046-22-3], pp 18-35.
5. [2018] Bhowmick S, Biswas A, Roy Chowdhury N, Roychowdhury T. Arsenic phytoavailability in Okra (*Abelmoschus esculentus* (L) Moench), role of microorganisms' consortium, In *Defining Modern Biology: Plants and Microbes*, Eds.: A. Sarkar, V. Mandal, S.K. Sil, S. Majumdar and C. Barman. [Binary Banyan

	<p>Publisher, ISBN-978-93-86564-02-3], pp 135-143.</p> <ol style="list-style-type: none"> <li>6. [2017] Das S, <u>Biswas A*</u>, Sarkar A. Air pollution toxicity and global agricultural perspective–A brief review. <i>In Emerging Issues in Environmental Science: Concerns and Management</i>, Eds.: PK Padhy, PK Patra. And UK Singh. [New Delhi Publishers, New Delhi, ISBN-978-93-85503-77-1], pp 91-105.</li> <li>7. [2017] <u>Biswas A</u>, Biswas S, Sarkar A. Correlating photosynthesis with crop productivity: perspectives from major climate variables. <i>In Environment and Photosynthesis: A Future Prospect</i>. Eds.: VP Singh, S Singh, R Singh, S M Prasad. [Studium Press, USA, ISBN: 978-93-85046-20-9], pp 356-368.</li> <li>8. [2017] <u>Biswas A*</u>. Book review of ‘Waste management challenges, threats and opportunities’. Eds.: Rajeev Pratap Singh, Ph.D. and Abhijit Sarkar, Ph.D., NOVA, New York, USA; pp-285. <i>In U G B Journal of Plant Biology and Biotechnology</i>, pp 1-2. <ul style="list-style-type: none"> <li>▪ [2015] <u>Biswas A*</u>, Biswas S. e-Waste, Science, Society, Management. <i>In Waste Management: Challenges, Threats and Opportunities</i>, Nova Publication, USA, [ISBN-978-1-63482-150-6], pp 257-267.</li> </ul> </li> </ol>
<b>Awards/Prizes/ Certificates</b>	<ol style="list-style-type: none"> <li>1. Belgium Government Fellowship, 2012 for research in Ghent University , Belgium.</li> </ol>