Curriculum Vitae

About

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Education

Degree Name	Group/Major Subject	Board/Institute	Country	Passing Year
Ph.D.	Chemistry	Jadavpur University	India	1998
Masters	Analytical Chemistry	University of Chittagong	Bangladesh	1989
Bachelor	Chemistry	University of Chittagong	Bangladesh	1988

Publications:

1. **Chakraborty, D**., Arefin, P., Bhattacharjee, S. C., Hasan, M., Sarkar, R., Das, S., ... & Mostafa, M. (2023). Biological activity of Mesua ferrea (Nageswar) seed extracts: An in vitro and in silico study. *Informatics in Medicine Unlocked*, 101166. https://doi.org/10.1016/j.imu.2023.101166

2. Das, S., Uddin, M. N., Haque, M. S., **Chakraborty, D**., Mostafa, M., Hasnaine, A., ... & Uddin, M. (2022). Hydroxymethylfurfural Content and Sugar Profile of Honey Available

in Bangladesh Using Validated HPLC-PDA and HPLC-RID. *Journal of food quality and hazards control*.

3. Matin, P., Nayeem, S. M., Matin, M. M., Rahman, M. R., Das, S., & **Chakraborty, D**. (2022). Synthesis of Protected D-Glucopyranosides as Mucormycosis Inhibitors: DFT, Docking, ADMET, and SAR Studies. *Egyptian Journal of Chemistry*.

4. Paroma Arefin*, Md Shehan Habib, Nazim Uddin Ahmed, Md Abdur Rahim, Md Ibrahim, Sreebash Chandra Bhattacharjee, **Dipankar Chakraborty**, Sumon Das, Debabrata Karmakar, Dip Bhowmik, Shirmin Islam, Md Saidul Arefin (2022). Allergic rhinitis and importance of fexofenadine hcl sustained release microsphere as its treatment approach. *Int J App Pharm*, *14*(1), 13-17.

5. Arefin, P., Habib, M. S., Mostafa, M., **Chakraborty, D**., Bhattacharjee, S. C., & Arefin, M. S. (2021). Fexofenadine HCl Microspheres–Can it be the First Line Therapy for Allergic Disorders?. *Biosciences Biotechnology Research Asia*, *18*(4), 795-799.

6. Arefin, P., Habib, S., Mostafa, M., **Chakraborty, D.,** Bhattacharjee, S. C., & Arefin, M. S. (2021). Evaluation of the Influence of Stirring Speed on the Release Kinetics of Fexofenadine HCl Polymeric Microspheres. *Biosciences Biotechnology Research Asia*, *14*(4), 733-741.

7. Arefin, P., Habib, M. S., **Chakraborty, D.,** Bhattacharjee, S. C., Das, S., Karmakar, D., & Bhowmik, D. (2020). An overview of microcapsule dosage form. *Int J Pharm Chem Anal*, *7*(4), 155-160.

8. Ahmed, R., Habib, M. S., Bhattacharjee, S. C., **Chakraborty, D.,** Das, S., Karmakar, D., & Bhowmik, D. (2020). Evaluation of Critical Quality Attributes of Immediate Release Ciprofloxacin Tablets of Different Pharmaceutical Companies in Bangladesh. *Biosciences Biotechnology Research Asia, 17*(4), 781.

9. Paroma Arefin , Md Shehan Habib, Nazim Uddin Ahmed, MD Abdur rahim, MD Ibrahim, Sreebash Chandra Bhattacharjee, **Dipankar Chakraborty**, Suman Das, Debabrata Karmakar, Dip Bhowmik,Shirmin Islam, MD Saidul Arefin.(2020) Microspheres and Microcapsules: A Review of Manufacturing Techniques for Pharmaceutical Industries Indian Journal of Novel Drug Delivery 12(4), Oct-Dec, 2020, 177-185.

10. A. J. M. Morshed, Sujan Kanti Das, **Dipankar Chakraborty.** (2019).A Qualitative Analysis and Assessment of Heavy Metals in Some Poultry Feeds from Chattogram Division., Bangladesh. International journal of scientific & technology research. 8(10),2277-8616.

11. Das, S., kumar Das, P., Das, S. K., Sarkar, R., **Chakraborty, D.,** Islam, S., & Rahman, B. H. Quality Monitoring of Jar Water Collected from Different Spot of Chittagong Metropolitan City, Bangladesh.

12. Das, P. K., Das, S., Morshe, A. J. M., **Chakraborty, D**., Sabuj, M. R. H., Bhattacharj, S. C., & Bhuiyan, H. R. (2017). Toxic Metals and Essential Nutrients Concentration in Different Vegetables Collected from Market Sites of Chittagong Metropolitan City, Bangladesh. *Current World Environment*, *12*(2), 270.

13. **Chakraborty, D**., Das, J., Das, P. K., Bhattacharjee, S. C., & Das, S. (2017). Evaluation of the parameters affecting the extraction of sesame oil from sesame (Sesamum indicum L.) seed using soxhlet apparatus. *International Food Research Journal*, *24*(2).

14. Adnan, S. M., Bhattacharjee, S. C., Akter, S., **Chakraborty, D.,** & Ahmad, M. (2017). Development and Quality Evaluation of Canned Pineapple. *Journal of Environmental Science and Natural Resources*, *10*(2), 183-187.

15. Das, J., **Chakraborty, D.,** Das, S., Bhattacharjee, S. C., & Das, P. K. (2016). Physicochemical parameters and heavy metal content in soybean oil from Bangladesh. *Pakistan Journal of Nutrition*, *15*(6), 565.

16. **Chakraborty, D**., Quadery, A. H., & Azad, M. A. K. (2008). Studies on the tanning with glutaraldehyde as an alternative to traditional chrome tanning system for the production of chrome free leather. *Bangladesh Journal of Scientific and Industrial Research*, *43*(4), 553-558. https://doi.org/10.3329/bjsir.v43i4.2246

17. **Dipankar Chakraborty**,Md. Parvez Ahmed,Md.Abul Kashem Azad and Md. Safiqul Islam Chowdhury .(2004)Use of magnesium sulphate and boric acid to reduce ecologically unfavoured ammonium sulphate as deliming agent in leather processing Bangladesh J. Sci. Ind. Res. 39(1-2), 71 – 76.

18. Saha, M. S., Shahid Hossain, M., & **Chakraborty, D.** (2003). Minimizing the environmental impact of chrome tanning by recovering and reusing of basic chromium sulphate from chrome liquor. *Bangladesh journal of scientific and industrial research*, *38*(1-2), 55-60.

19. Pal, B. K., **Chakraborty, D.,** & Dey, G. (1997). Indirect spectrofluorimetric determination of arsenic at nanotrace levels in alloys, underground water, industrial waters and sewage sludge. *Microchimica Acta*, *127*, 203-210. https://doi.org/10.1007/BF01242723

20. Pal, B. K., Ahmed, M. J. U., Chakrabarti, A. K., & **Chakraborty, D**. (1997). Spectrofluorimetric determinations of chromium, selenium and manganese in their mixtures and their application to environmental and biological samples.

21. Pal, B. K., Dey, G., & **Chakraborty, D.** (1997). Nonextractive, quenchofluorimetric and ultratrace method of determination of vanadium in some real and environmental samples. *Proceedings of the Indian National Science Academy, Part A, 63*.

22. Pal, B. K., Singh, K. A., & **Chakraborty, D.** (1997). Rapid quenchofluorimetric determination of nickel (II) in some real and environmental samples. *Microchimica Acta, 126*, 39-44. https://doi.org/10.1007/BF01242658

23. Pal, B. K., Ahmed, M. J. U., Chakrabarti, A. K., & **Chakraborty, D**. (1997). Spectrofluorimetric determinations of chromium, selenium and manganese in their mixtures and their application to environmental and biological samples.

24. M. Jamaluddin Ahmed and **D. Chakraborty**.(1994)Trace determination of total phosphorus and its application in chemical, environmental, biological and soil samples. Journal of Bangladesh Academy of Sciences, 18(2), 127 – 135.

25. M. Jamaluddin Ahmed and **D. Chakraborty.(**1992) Spectrophotometric determination of trace amounts of copper in industrial, environmental and biological samples using 2 – (α – pyridyl) thioquinaldinamide(PTQA). Chem. Environ.Res. 1(4), 397 – 404.

Process accepted

Following processes was accepted by Bangladesh Council of Scientific &Industrial Research (BCSIR):

1. Recovery of useable basic chromium sulphate from spent chrome liquor. Dr. Madhusudan Saha, Dr. Dipankar Chakraborty And Ariful Hai Quadery, Ref. সচি/গউবি/62-363/2004/540, Date 23.05.2005

2. A process for the preparation of protein filler as a retanning agent for leather processing. Ariful Hai Quadery, Akhtar Hossain, Dr.Dipankar Chakraborty, Md.Abul Kashem Azad and Sujit Kumar Banik. Ref. সচি/গউবি/62-631/07/1346, Date 20.08.2008 (This process is leased out to an entrepreneur and now is in commercial production)

3. A process for the preparation of ammonium chrome alum from chrome shaving dust and Spent Chrome liquor. Dr. Madhusudan Saha, Dr.Dipankar Chakraborty, Md. Abul Kashem Azad and Sujit Kumar Banik. Ref. সচি/গউবি/62-646/08/998, Date 29.07.2008

4. Manufacture of anti-wrinkle agent and its application in leather processing. Akhtar Hossain, Ariful Hai Quadery, Dr. Dipankar Chakraborty, Md. Abul Kashem Azad and Sujit Kumar Banik. Ref. সচি/গউবি/62-535/2005/914 Dated. 15.05.2006
   (This process is also leased out to an entrepreneur and now is in commercial production).

5. A process for the preparation of tanning agent based on glutaraldehyde and its application in leather processing. Ariful Hai Quadery, Dr.Dipankar Chakraborty, Md. Abul Kashem Azad. Ref. সচি/গউবি/62-745/09/1160, date 01.03.2010