**Department of Chemical Engineering**

1. Banerjee, D., Chowdhury, R. & Bhattacharya, P. The Prebiotic Influence of Inulin on Growth Rate and Antibiotic Sensitivity of Lactobacillus casei. Int. J. Pharm. Pharm. Sci.8, 181–184 (2016).
2. Behera, M., Dhali, D., Chityala, S., Mandal, T., Bhattacharya, P. & Mandal, D. D. Evaluation of performance of Planococcus sp. TRC1 an indigenous bacterial isolate monoculture as bioremediator for tannery effluent. Desalin. Water Treat.57, 13213–13224 (2016).
3. Bera, M., Chakraborty, R. & Bhattacharya, P. Optimization of Intensification of Freeze-Drying Rate of Banana: Combined Applications of IR Radiation and Cryogenic Freezing. Sep. Sci. Technol.48, 346–358 (2012).
4. Bhattacharjee, S. & Bhattacharjee, C. Recovery of lignosulphonates and medium quality water from pulp and paper effluent using membrane technology. Indian J. Environ. Prot.29, 214 – 223 (2009).
5. Bhattacharjee, S. Estimation of Mass Transfer Coefficient and Gel Concentration During Ultrafiltration of PEG Solution in A Tangential Flow Ultrafiltration Module. Int. J. Eng. Res. Technol.2, 1893–1895 (2013).
6. Bhattacharjee, S., Chakraborty, S., Mandol, K., Liu, L., Choi, H. & Bhattacharjee, C. Optimization of process parameters during photocatalytic degradation of phenol in UV annular reactor. Desalin. Water Treat.54, 2270–2279 (2015).
7. Bhattacharjee, S., Dutta, T. & Bhattacharjee, C. Removal of arsenic from contaminated water by coagulation followed by polyelectrolyte enhanced ultrafiltration. Desalin. Water Treat.57, 9756–9764 (2016).
8. Bhattacharjee, Sangita Moulik, S., Aich, P. & Bhattacharya, C. Studies on Adsorption of Reactive Red 120 on Bentonite. Indian J. Environ. Prot.33, 194–200 (2012).
9. Bhattacharya, P, Dutta, S., Ghosh, S., Vedajnananda, Swami and Bandyopadhyay, S. Crossflow microfiltration using ceramic membrane for treatment of sulphur black effluent from garment processing industry. Desalination, 261 (1-2). 67-72 (2010).
10. Bhunia, B., Basak, B., Bhattacharya, P. & Dey, A. Kinetic Studies of Alkaline Protease from Bacillus licheniformis NCIM-2042. J. Microbiol. Biotechnol.22, 1758–1766 (2012).
11. Bhunia, B., Basak, B., Bhattacharya, P. & Dey, A. Process engineering studies to investigate the effect of temperature and pH on kinetic parameters of alkaline protease production. J. Biosci. Bioeng.115, 86–89 (2013).
12. Bhunia, B., Basak, B., Mandal, T., Bhattacharya, P. & Dey, A. Effect of pH and temperature on stability and kinetics of novel extracellular serine alkaline protease (70 kDa). Int. J. Biol. Macromol.54, 1–8 (2013).
13. Chakraborty, R., Bera, M., Mukhopadhyay, P. & Bhattacharya, P. Prediction of optimal conditions of infrared assisted freeze-drying of aloe vera (Aloe barbadensis) using response surface methodology. Sep. Purif. Technol.80, 375–384 (2011).
14. Chatterjee, S., Sen, T. & Mitra, A. Numerical Analysis of Nonisothermal Viscous Jet with Peripheral Heat Transfer, International Journal of Modeling Simulation and Scientific Computing 7(3), 1650012-1-1650012-24 (2016).
15. Chaudhuri, S., Chakraborty, R. & Bhattacharya, P. Optimization of biodegradation of natural fiber (Chorchorus capsularis): HDPE composite using response surface methodology. Iran. Polym. J.22, 865–875 (2013).
16. Das, B., Bhattacharjee, S. & Bhattacharjee, C. Study on Conversion of Deproteinated Whey to Ethanol. World Res. J. Eng. Technol.2, 23–25 (2013).
17. Das, B., Roy, A. P., Bhattacharjee, S., Chakraborty, S. & Bhattacharjee, C. Lactose ***hydrolysis by β***-galactosidase enzyme: optimization using response surfacemethodology. Ecotoxicol. Environ. Saf.121, 244–252 (2015).
18. Das, B., Sarkar, S., Sarkar, A., Bhattacharjee, S. & Bhattacharjee, C. Recovery of whey proteins and lactose from dairy waste: A step towards green waste management. Process Saf. Environ. Prot.101, 27–33 (2016).
19. Das, D., Bakshi, S. & Bhattacharya, P. Dyeing of EDTA-Modified Cotton With Reactive Dyes. Cloth. Text. Res. J. 34 , 196–206 (2016).
20. Das, D., Bakshi, S. & Bhattacharya, P. Dyeing of sericin-modified cotton with reactive dyes. J. Text. Inst.105, 314–320 (2014).
21. Das, S., Banerjee, A., Chowdhury, R., Bhattacharya, P. & Calay, R. K. Parametric sensitivity of pH and steady state multiplicity in a continuous stirred tank bioreactor (CSTBR) using a lactic acid bacterium (LAB), Pediococcus acidilactici. J. Chem. Technol. Biotechnol.91, 1431–1442 (2016).
22. Datta, D. & Banerjee, P. K. Studies on the Effectiveness of Physico-chemical and Aerobic Biological Treatment Methods of Industrial Waste-water. Int. J. Adv. Technol. Eng. Res. 254–258 (2014).
23. Datta, D. & Biswas, S. Study on Phenol Adsorption by Activated Carbon Derived from Coconut Shell. Int. J. Latest Technol. Eng. Manag. Appl. Sci.4, 39–46 (2015).
24. Datta, D., Banejee, P. K. & Datta, S. Evaluation of Water Quality along the Bank of River Hoogly (Kolkata Metropolitan Area) Using the Physico-Chemical Parameter and Water Quality Index. Asian J. Water, Environ. Pollut.6, 19–26 (2009).
25. Datta, D., Bhattacharjee, C. & Datta, S. Whey protein fractionation using membrane filtration – a review. Inst. Eng.89, 45–50 (2008).
26. Datta, D., Datta, S. & Banerjee, P. K. Analysis of Seasonal Variation of Water Quality and Bottom Sediment Parameters of Stagnant Surface Water Body. Inst. Eng.88, 7–13 (2008).
27. Datta, D., Sarkar, A., Sarkar, D., Bhattacharjee, C. & Mukherjee, D. C. Characterization of Bovine Serum Albumin Adsorption on Polyethersulfone Ultrafiltration Membrane. Indian Chem. Soc.88, 1305–1318 (2011).
28. Datta, D.,Bhattacharjee, S., Nath, A., Das, R., Bhattacharjee, C. & Datta, S. Separation of ovalbumin from chicken egg white using two-stage ultrafiltration technique. Sep. Purif. Technol.66, 353–361 (2009).
29. Ghosh, A. & Verma, A. Carbon-Polymer Composite Bipolar Plate for HT-PEMFC. Fuel Cells14, 259–265 (2014).
30. Ghosh, A., Goswami, P., Mahanta, P. & Verma, A. Effect of carbon fiber length and graphene on carbon-polymer composite bipolar plate for PEMFC. J. Solid State Electrochem.18, 3427–3436 (2014)
31. Ghosh, S., Chowdhury, R. & Bhattacharya, P. Mixed consortia in bioprocesses: role of microbial interactions. Appl. Microbiol. Biotechnol.100, 4283–4295 (2016).
32. Ghosh, S., Chowdhury, R. & Bhattacharya, P. Sustainability of Cereal Straws for the Fermentative Production of Second Generation Biofuels: A Review of the Efficiency and Economics of Biochemical Pretreatment Processes, Applied Energy (accepted for publication) (2016).
33. Ghosh, S., Dairkee, U. K., Chowdhury, R. & Bhattacharya, P. Hydrogen from food processing wastes via photofermentation using Purple Non-sulfur Bacteria (PNSB) – A review. Energy Convers. Manag. (2016).
34. Haldar, D., Sen, D. & Gayen, K. A Review on the Production of Fermentable Sugars from Lignocellulosic Biomass through Conventional and Enzymatic Route – A Comparison. Int. J. Green Energy (2016). doi:10.1080/15435075.2016.1181075
35. Haldar, D., Sen, D. & Gayen, K. Development of spectrophotometric method for the analysis of multi-component carbohydrate mixture of different moiety, Applied Biochemistry and Biotechnology (2016) doi: 10.1007/s12010-016-2293-3
36. Halder, D., Mondal, S., Mukherjee, A. & Ghosh, A. Overview on The Treatment of Waste Water Using Renewable Energy. Int. J. Res. Eng. Technol.5, 78–83 (2016).
37. Kakati, B. K., Ghosh, A. & Verma, A. Efficient composite bipolar plate reinforced with carbon fiber and graphene for proton exchange membrane fuel cell. Int. J. Hydrogen Energy38, 9362–9369 (2013).
38. Mallick, A., Ash, S. N. & Mahapatra, D. K. Pretreatment of Acacia nilotica Sawdust by Catalytic Delignification and Its Fractal Kinetic Modeling. J. Inst. Eng. Ser. E97, 39–45 (2016).
39. Mondal, S., Datta, S., Mukhopadhay, A. & Bhattacharya, P. Studies on Isolation, Optimization and Bioprocess Engineering Behaviour of Entomopathogenic Fungi, Beauveria bassiana. Indian Chem. Eng. 1–16 (2015). doi:10.1080/00194506.2015.1075439
40. Panja, J., Sarkar, S., Raybarman, U. & Bhattacharjee, S. Removal of Reactive Black 5 Dye from Aqueous Solution using Photocatalysis. Int. J. Innov. Res. Sci. Technol.2, 284–289 (2016).
41. Ranjan Roy, S., Bhattacharya, P. & Sirkar, A. Studies on Solvent Extraction of Ethanol during Fermentation under Agitated Condition. Indian Chem. Eng.54, 245–261 (2012).
42. Roy, S. R., Bhattacharya, P. & Sirkar, A. Studies on Toxicity Effect of Solvents on Growth of Saccharomyces cerevisiae (NCIM 3186). Indian Chem. Eng.55, 247–257 (2013).
43. Samanta Koruri, S., Chowdhury, R. & Bhattacharya, P. Analysis of cell growth dynamics of Pediococcus acidilactici in the presence of inulin in an optimized microenvironment. Arch. Microbiol.197, 955–963 (2015).
44. Samanta, S., Gupta, P. K., Sardar, P. & Ghosh, A. Electro-Osmosis Dewatering of Coal Sludge. Int. J. Res. Eng. Technol.5, 84–87 (2016).
45. Sarkar, D., Datta, D., Sen, D. & Bhattacharjee, C. Simulation of continuous stirred rotating disk-membrane module: An approach based on surface renewal theory. Chem. Eng. Sci.66, 2554–2567 (2011).
46. Sen, P., Bhattacharjee, C. & Bhattacharya, P. Experimental studies and two-dimensional modelling of a packed bed bioreactor used for production of galacto-oligosaccharides (GOS) from milk whey. Bioprocess Biosyst. Eng.39, 361–380 (2016).
47. Sen, P., Nath, A., Bhattacharjee, C., Chowdhury, R. & Bhattacharya, P. Process engineering studies of free and micro-***encapsulated β***-galactosidase in batch and packed bed bioreactors for production of galactooligosaccharides. Biochem. Eng. J.90, 59–72 (2014).
48. Sharma, S., Saha, GR, Thakur, S & Vedajnananda, S. Studies on Production of Lactic Acid using Fermentation Route. International Journal of Latest Technology in Engg. Mgt. &amp; Applied Science, IV (IV) 13-16 (2015).

**Department of Chemical Engineering**