

Cellphone : 9444021946

e-Mail ID : mdkumar@annauniv.edu

Address : Anna University Staff Quarters, Gandhi mandapam  
road, Chennai -25.



## Present Position

Professor, Department of Applied Science and Technology, Alagappa College of Technology, Anna University, Chennai from August-2016.

## Present Additional Responsibility

- zonal officer zone - 3, Administrative Office, Anna University, Chennai from August-2008.

## Previous Additional Responsibility

- , , Anna University, Chennai.

## Other Employment

- , .

## Degree

- ❖ M.Sc. in CHEMISTRY , Bharathidasan University, Tiruchirapalli, Bharathidasan University, Tiruchirapalli (1993 - 1995).
- ❖ B.Sc. in CHEMISTRY , University of Madras, Chennai, University of Madras, Chennai (1989 - 1992).
- ❖ B.Ed ANNAMALAI UNIVERSITY, ANNAMALAI UNIVERSITY - 1996).

## Research Degree

- ❖ Ph.D. in Thermodynamics from Faculty of SCIENCE AND HUMANITIES, Alagappa College of Technology, Anna University, Chennai (1996).  
Title: Transport Properties-Thermodynamics of liquid mixtures: A Study on excess Enthalpy of mixing, vapour – liquid equilibrium in systems containing dissolved inorganic salts. .

## Research Guidance

## Papers Published in Journals

Research Papers Published in International Journals : 42  
Research Papers Published in National Journals : 9

1. "Effect of dissolved salts on the vapor liquid equilibrium relationships of the three miscible binary systems at the pressure of 101.3kPa", J. Chem. Engg. Japan, published by J. Chem. Engg. Japan. Vol. 31, Issue 5, pp. 749-757 (1998).
2. Dharmendira Kumar .M, Satyamurthy .N, "Effect of hydrotropes on Solubility and mass transfer coefficient of butyl acetate", J. Chem. Engg. Data, published by ACS PUBLICATIONS. Vol. 43, Issue 5, pp. 695-699 (1998).
3. Dharmendira Kumar .M, " Solubility and mass transfer coefficient enhancement of ethyl benzoate through hydro trophy", Hungarian J. of Ind. Chem., published by DE GRUYTER. Vol. 26, Issue 6, pp. 63-68 (1998).
4. " Salt Effect on the Enthalpy of mixing of Methanol + Water at 303.15k", J. Fluid Phase Equilibria, published by ELSEVIER. Vol. 16, pp. 217-224 (1999).
5. " Enthalpy of Mixing of Methanol + Benzene + Mercuric Chloride at 303.15 K", J. Chem. Eng. Data, published by ACS PUBLICATIONS. Vol. 44, Issue 2, pp. 248-250 (1999).
6. "Effect of hydro tropes on solubility and mass transfer coefficient of ethyl and possible mechanism of hydrotropic phenomena", Bioprocess and biosystems engineering , published by Springer. Vol. 23, Issue 1, pp. 31-36 (2000).
7. Nagendra Gandhi, "Effect of hydro tropes on solubility and mass transfer coefficient of amyl acetate", Bioprocess Engg. , published by Springer. Vol. 23, Issue 1, pp. 31-36 (2000).
8. " Effect of hydro tropes on solubility and mass transfer coefficient of methyl salicylate", J. Chem. Engg. Data, published by ACS PUBLICATION. Vol. 45, Issue 5, pp. 419-423 (2000).
9. "Salt Effect on the Enthalpy of mixing of Methanol + Ethyl acetate at 303.15k", J. Chem. Eng. Data, published by ACS PUBLICATION. Vol. 45, pp. 11-14 (2000).
10. Konguvel Thehazhnan, P, Umapathy, M., " Free Radical Polymerization of Methyl Methacrylate in the presence of Phase Transfer Catalyst", Int. J. Polym. Mater, published by Taylor & Francis . Vol. 53, Issue 1, pp. 95-103 (2004).
11. M.Muthukumar, Dharmendira Kumar .M, "Studies on performance of cellulose acetate and polyethylene glycol blend ultra filtration membranes using mixture design concept of design of experiments", Int. J. Polym. Mater, published by taylor & francis. Vol. 55, pp. 1133-1154 (2006).
12. K. Shankar, M. Dharmendira Kumar, "Biosorption of Congo Red dye using Tamarindus indica fruit shell: Batch Studies", Indian J. Environmental Protection., published by Indian J. Environmental Protection.. Vol. 28, Issue 11, pp. 1028-1033 (2008).

13. R.Venkatakrishnan, S.Venkataramana, M. Dharmendira Kumar, S.Deepak, Lima Rose Miranda, "Kinetic studies on sorption of basic dye using Eichhornia crassipes", J. Env. Sci. Engg. , published by ELSEVIER. Vol. 50, Issue 4, pp. 249-254 (2008).
14. R.Venkatakrishnan, M. Dharmendira kumar, "Kinetic studies on sorption of Basic Orange 14 and Brill Red 5B using Eichhornia crassipes parts of Rhizome and Root", Indian Journal of Engineering, Science and Technology, published by ELSEVIER. Vol. 2, Issue 1, pp. 11-16 (2008).
15. Anand Prabhu, " Salt Effect on the Enthalpy of mixing of 1,4 Dioxane + Formic acid at 303.15K", J. Chem. Engg.Data, published by ACS PUBLICATION. Vol. 53, pp. 969-969 (2008).
16. Ajit Balaji Kannavadi Devaraj, Dharmendira Kumar Mahendradas, Baskar Gurunathan, "Biosorption of Lignin Compounds using Biomass Derived from Eichhornia crassipes: Batch Studies", Inter. J. Chem. React. Engg, published by DE GRUYTER. Vol. 6, (2008).
17. M.RAJENDRAN, " Salt Effect on the Enthalpy of mixing of methanol + Ethyl acetate at 303.15K", Chem. Engg. World, published by Chem. Engg. World. Vol. 13, pp. 66-69 (2008).
18. R. Venkatakrishnan, M. Dharmendira Kumar,, " Kinetic studies on sorption Orange 14 and Brill Red 5B using Eichhornia crassipes parts of Rhizome and Root", Indian Journal of Engg, Science and Technology, published by Indian Journal of Science and Technology. Vol. 2, Issue 1, pp. 11-16 (2008).
19. M. Dharmendira Kumar, M. Velan, "Biosorption of Congo red dye using Tamarindus indica fruit sheel: Batch Studies", Indian J. Environemtal Protection, published by Indian J. Environemtal Protection. Vol. 28, pp. 1028-1033 (2008).
20. S. Renganathan , M. Dharmendira Kumar, M., "Biosorption of Acid Blue 5 by biomass derived from Eichhornia crassipes: Batch and Column Studies", Inter. J. Chem. React. Engg, published by DE GRUYTER. Vol. 6, pp. 671-674 (2008).
21. Mahendradas Dharmendirakumar, Venkataramana Shanmugasundaram, Kirubanandan Shanmugam, "Sorption of kinetic and equilibrium analysis for the removal of reactive red 2 and reactive blue 81 dyes from synthetic effluents using dried soya bean meal", Inter. J. Chem. React. Engg, published by DE GRUYTER. Vol. 7, pp. 33-37 (2009).
22. M.Velan, V.Karthik, Raajenthiren.M., "Antimicrobial Activity of Cicca Acida Against Various Environmental Pathogenic Bacterial and Fungal Species", Indian Journal of Environmental protection, published by Indian Journal of Environmental protection. Vol. 29, Issue 1, pp. 44-48 (2009).
23. C. Rajesh Kanna, G.Baskar, "Studies on antibacterial activity of Leucas aspera extracts", Research Journal of Biological Science, published by Research Journal of Biological Science. Vol. 4, Issue 1, pp. 236-241 (2009).
24. Jayabalan. Kalpana, Manickam Velan., "Equilibrium and Kinetic Studies on the Removal of Reactive Red 2 Dye from Aqueous Solution Using Positively Charged Functional Group of Nymphaea rubra Biosorbent", Clean-Soil, Air, Water, published by wiley. Vol. 37, Issue 11, pp. 901-907 (2009).

25. P. B. Sree Parthan, G. Vijayakumar, M. Dharmendra Kumar, "Bio sorption of residual oil using biomass derived from *Pistia stratiotes*: Batch studies", *Indian J. Environmental Protection*, published by Indian J. Environmental Protection. Vol. 29, pp. 890-895 (2009).
26. Sahadevan Renganathan, Subramania Sivanesan, Gurunathan Baskar, Kuppanagounder P. Elango., "Removal of Congo Red from aqueous solutions by Perlite", *Clean-Soil, Air, Water*, published by wiley. Vol. 37, pp. 355-364 (2009).
27. Anand Prabu Arun, Raajenthiren Muniswamy, Chang Kyoo Yoo, "Determination and Correlation of Excess Enthalpies of Mixing of Ethyl Acetate / Benzene Mixtures Containing Dissolved Inorganic Salts at 303.15 K". ", *J. Chem. Engg. Japan*, published by Society of Chemical Engineers Japan. Vol. 42, Issue 7, pp. 485-487 (2009).
28. ,Sunil G. Baffna, A. Anand-Prabu., "Salt effect on the enthalpy of mixing of 2-propanol + acetic acid at 303.15 K", *Polish Journal of Chemical Technology*, published by DE GRUYTER. Vol. 11, Issue 4, pp. 20-23 (2009).
29. M. Velan, M. Dharmendira Kumar, "Removal of brill red 5b from an aqueous solution using cicca acida biomass", *Can. J. Chem. Engg*, published by wiley. Vol. 87, pp. 554-561 (2009).
30. A. Anand Prabu, M. Raajenthiren, Chang Kyoo Yoo., "Effect of Dissolved Salts on the Enthalpy of Mixing of the Methanol + Formic Acid System at 303.15 K", *J. Chem. Engg. Data*, published by ACS PUBLICATION. Vol. 54, Issue 1, pp. 4-7 (2009).
31. Anand Prabu, S. Renganathan and Chang Kyoo Yoo., "Optimization of Carbon and Nitrogen sources for L-asperginase Production by *Enterobactor aerogenes* using Response surface Methodology", *Chemical and Biochemical Engg Quarterly*, published by Yugoslav Committee for Chemical Engineering;. Vol. 23, Issue 3, pp. 393-397 (2009).
32. "Determination and Correlation of Salt Effect on the Enthalpy of Mixing of 1,4-Dioxane + Formic Acid at 303.15 K". ", *J. Chem. Engg. Japan*., published by Kagaku Ko&#772;kai . Vol. 42, Issue 7, pp. 485-489 (2009).
33. Subramanian, A, "Optimization of Enzymatic Hydrolysis of Rice Starch by Immobilized &#945;-Amylase using Response Surface Methodology", *International Journal of Biosciences and Technology*, published by International Journal of Biosciences and Technolog. Vol. 3, pp. 61-67 (2010).
34. Ashok, A., Abinandan, S, "Optimization of Operating Variables for Corn Flour Starch Hydrolysis using Immobilized &#945;-amylase by Response Surface Methodology", *International Journal of Biotechnology and Biochemistry*, published by taylor & francis. Vol. 6, pp. 841-850 (2010).
35. Chang Kyoo Yoo, Kuppana Gounder P. Elango, "Adsorption Characteristics of Rhodamine B from Aqueous Solution onto Baryte", *Clean-Soil, Air, Water*, published by wiley. Vol. 38, Issue 2, pp. 202-207 (2010).
36. , P. Ramalingam, Min Jung Kim, Chang Kyoo Yoo., "Removal of acid dye (violet 54) and adsorption kinetics model of using *musa spp.* waste: A low-cost natural sorbent material", *Korean J. Chem. Eng*, published by Springer. Vol. 27, Issue 5, pp. 1469-1475 (2010).

37. K. Sangeetha, M. Dharmendra Kumar, " Biosorption of chromium (VI) from an aqueous solution using *Adathoda vasica*", Indian J. Environmental Protection, , published by Indian J. Environmental Protection, . Vol. 30, Issue 1, pp. 46-51 (2010).
38. P. Saravanan, M. , N. Nagendra Gandhi, S. Renganathan, " Biosorption of Reactive Red 198 from an aqueous solution using *Acalypha indica*", Asia-Pacific Journal of Chemical Engineering , published by wiley. Vol. 7, pp. 761-768 (2011).
39. "Composition Monitoring of Batch Distillation Column using Adaptive Neuro Fuzzy Inference System Estimator' ", International Journal of Computer Science and Technology, published by Springer. Vol. 2, Issue 1, pp. 104-107 (2011).
40. R.Tamilarasan, V.Sivakumar, "Kinetic, Equilibrium and Sorption studies of reactive orange -16 from aqueous solution using nut shell of *arachis hypogaea*", Elixir Pollution , published by Elixir Pollution . Vol. 38, pp. 4302-4307 (2011).
41. "Optimization of medium components and operating conditions for the production of solvent-tolerant lipase by *Bacillus sphaericus* MTCC 7542", African Journal of Biotechnology, published by Academic Journals. Vol. 10, pp. 15051-15057 (2011).
42. Saranya, R., Rajamaniccam, L. Sai, "Production, purification and characterization of lipase enzyme from *Bacillus* species", International Journal of Biosciences and Technology, published by International Journal of Biosciences and Technolog. Vol. 4, pp. 18-22 (2011).
43. Peatciyammal, N., Rajamaniccam, L. Sai, " Statistical Optimization of Lipase Production from *Bacillus* spp by Response Surface Methodology", Research J. Engineering and Tech, published by Research J. Engineering and Tech. Vol. 1, pp. 31-35 (2011).
44. Saravanan Panneerselvam, Sahadevan Renganathan, "Equilibrium Uptake and Bioaccumulation of Basic violet 14 Using Submerged Macrophyte *Hydrilla verticillata*", Clean-Soil, Air, Water , published by wiley. Vol. 39, Issue 3, pp. 283-288 (2011).
45. P. Saravanan, "Accumulation of Methylene Blue dye by Growing *Lemna minor*", Separation Science and Technology, published by taylor & francis. Vol. 46, Issue 6, (2011).
46. "Bacillus Subtilis on Pb<sup>2+</sup> ions removal from aqueous solution by Biosorption", Research Journal of Pharmaceutical, Biological and Chemical Sciences, published by Research Journal of Pharmaceutical, Biological and. Vol. 2, Issue 5, pp. 247-257 (2011).
47. "Application of Bacteria to Remove Ni(II) Ions from Aqueous Solution", European Journal of Scientific Research, published by EuroJournals. Vol. 52, Issue 3, pp. 345-358 (2011).
48. "Biosorption Kinetics of Cu (II) Ions Removal from Aqueous Solution using Bacteria", Pakistan Journal of Biological Sciences, published by Asian Network for Scientific Information. Vol. 14, pp. 327-335 (2011).
49. R.Tamilarasan, "Adsorption, Kinetic, Equilibrium and Thermodynamic studies on the removal of basic dye Rhodamine-B from aqueous solution by the use of natural adsorbent perlite", J. Mater. Environ. Sci. , published by J. Mater. Environ. Sci. . Vol. 3, Issue 1, pp. 157-170 (2012).

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51. Heecheul Kim, Sun-Kuk Kim, Arun Anand Prabu, "Effect of Cadmium Chloride and Ammonium Chloride Salts on the Enthalpy of Mixing of Pyridine + Water at 303.15 K", J. Chem. Eng. Data, published by ACS PUBLICATION. Vol. 57, pp. 1-6 (2012).