



ALIPURDUAR UNIVERSITY

ESTD: 2020

Established as per West Bengal Act Vxii of 2018

The Alipurduar University Act 2018, Dated 01.10.2018



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Subject Specialization: Organic Chemistry

Areas of Research Interest: Solution Chemistry, Single Crystal MOF, POMS.

No. of Ph.D. students: (a) Supervised: Nil (b) Ongoing: 01

No. of M.Phil. students: (a) Supervised: Nil (b) Ongoing: Nil

No. of Publications: (a) Scientific Papers: 12 (b) Books/Book Chapter: Nil

Achievement & Awards:

- Awardee of JRF by CSIR, New Delhi in 2004.

Administrative Experiences:

- In-Charge, Development Officer (Additional Charge) of the Alipurduar University, Alipurduar Court, Alipurduar-736122, West Bengal, India.
- Head of The Department, Department of Chemistry, Alipurduar University, Alipurduar Court, Alipurduar-736122, West Bengal, India.

Professional Experiences:

- 2006-2014 : Assistant Professor (Stage-I)
- 2014- till date : Assistant Professor (Stage-II)

List of Selected Publications:

1. B. Sinha, **V. K. Dakua** and M. N. Roy*, Apparent Molar Volumes and Viscosity B-Coefficients of Some Amino Acids in Aqueous Tetramethylammonium Iodide Solutions at 298.15 K, *Journal of Chemical & Engineering Data* **2007**, *52(5):1768-1772 (ACS Publisher)*.
2. M. N. Roy*, B. Sinha, **V. K. Dakua**, Partial Molar Volumes, Viscosity B-Coefficients, and Adiabatic Compressibilities of Sodium Molybdate in Aqueous 1,3-Dioxolane Mixtures from 303.15 to 323.15 K, *International Journal of Thermophysics* **2007**, *28(4):1275-1284 (Springer Publisher)*.
3. M. N. Roy*, B. Sinha, **V. K. Dakua**, Excess molar volumes, viscosity deviations and ultrasonic speeds of sound of binary mixtures of 2-butanone with some alkoxyethanols and amines at 298.15 K, *Journal of Molecular Liquids* **2007**, *136(1-2):128-137 (Elsevier Publisher)*.
4. M. N. Roy*, B. Sinha, **V. K. Dakua**, Excess Molar Volumes and Viscosity Deviations of Binary Liquid Mixtures of 1,3-Dioxolane and 1,4-Dioxane with Butyl Acetate, Butyric Acid, Butylamine, and 2Butanone at 298.15 K, *Journal of Chemical & Engineering Data* **2006**, *51(2):590-594 (ACS Publisher)*.
5. M. N. Roy*, B. B. Gurung, **V. K. Dakua**, Conductometric Study of Some Metal Halides in Glycerol + Water Mixtures, *International Journal of Thermophysics* **2006**, *27(5):1539-1550 (Springer Publisher)*.
6. B. Sinha, **V. K. Dakua** and M.N. Roy*, Electrical Conductances of Some Ammonium and Tetraalkylammonium Halides in Aqueous Binary Mixtures of 1,4-Dioxane at 298.15 K, *Pakistan Journal of Scientific and Industrial Research* **2006**, *49(3):153-159*.
7. **V. K. Dakua**, B. Sinha and M.N. Roy*, Studies on Excess Molar Volumes and Deviations of Binary Mixtures of Butalamine and N, N-Dimethylformamide with Some Alkyl Acetates at 298.15 K, *Indian Journal of Chemistry Section a* **2006**, *45:1381*.

8. **V. K. Dakua**, B. Sinha and M.N. Roy*, Studies on Excess Molar Volumes and Deviations of Binary Mixtures of Butalamine and N, N-Dimethylformamide with Some Alkyl Acetates at 298.15 K, *Indian Journal of Chemistry Section a* **2006**, *45*:1381.
9. **V. K. Dakua**, B. Sinha and M.N. Roy*, Ion-Solvent and Ion-Ion Interactions of Sodium Molybdate Salt in Aqueous Binary Mixtures of 1, 4-Dioxane at Different Temperatures, *Physics and Chemistry of Liquids* **2007**, *45(1)*:67-77. (Springer Publisher).
10. **V. K. Dakua**, D. Mishra, B. Sinha*, Volumetric, Acoustic, and Fourier Transform infrared Spectroscopic study of potassium Thiocyanate in Cyclohexanone, N, N-Dimethylformamide and Dimethyl sulfoxide, *IJACS* **2016**, *4(2)*:180.
11. S. Majumder, **V. K. Dakua** and M.N. Roy*, Exploration of Solvation Consequences of Some Biologically potent molecules in aqueous ionic liquid solutions with the manifestation of molecular interactions, *JCBPS*, **2020**, *2(1)*:91.
12. A. Das, **V. K. Dakua**, D. Mishra, B. Sinha*, DNA Binding and DNA Cleavage activities of newly synthesized Co(II) and Cu(II) complexes of Cyclodextrin based azo functionalized Schiff base , *Australian Journal of Chemistry* , Just Accepted in 2020.

List of Seminar/Symposium/Conference Attended:

	Seminar/Symposium/ Conference Attended	Date	Organizer and Venue
1.	International Conference on Modern Trends in social and Basic Sciences(MTSBS).	March 27-28, 2015	Organized by Alipurduar College, Alipurduar Court, Alipurduar-736122, West Bengal, India.
2.	National Conference on Need and Prospect of Environmental Education.	November 16-18, 2016	Jointly organized by Alipurduar College and Alipurduar Mahila Mahavidyala, Alipurduar Court, Alipurduar-736122, West Bengal, India.
3.	National Seminar on Frontiers in Chemistry 2017-18.	September 14, 2017.	Organized by Department of Chemistry, University of North Bengal, Darjeeling-734013, W.B, India.
4.	4th Regional DST Congress-2019, West Bengal (Northern Region).	December 18-19, 2019	Organized by DST, Govt. of West Bengal, West Bengal State Council of Science and Technology and Alipurduar College.

5. International Seminar on August 27,
Frontiers in Chemistry-2018 **2018.** Organized by CRSI North Bengal Local Chapter,
and Department of Chemistry, University of
North Bengal, Darjeeling-734013, W.B, India.
6. International Conference on January 10-12,
Environmentalism, Globalism
and Morality 2018 Organized by Alipurduar College Maynaguri
College and Cooch Behar Panchanan Barma
University, at Alipurduar College, Alipurduar-
736122, West Bengal, India.