



Dharitri Moharatha, Ph.D.

Designation : Associate Professor

Department : Department of Basic Science and Humanities
(JOINED THE INSTITUTE IN 2011)

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RESEARCH INTERESTS

- ✓ Liquid Physics (experimental and theoretical)
- ✓ Physico-chemical properties of alkali metals

Academic Qualifications

Ph. D. (Physics), Utkal University, India

M.Phil. (Physics) Utkal University, India

M. Sc. (Physics) Utkal University, India

Specialisation: Electronics

Teaching Experience/Industrial Experience/Research Experience

Teaching Experience: 25 years

Research Experience: 15 years

PUBLICATIONS

JOURNAL & CONFERENCES

1. U.N. Dash, G.S. Roy, M. Tatulkdar & D. Moharatha "Acoustic and Viscosity studies of alkali metals and ammonium halides in aqueous dextran solutions at four different temperatures" **Indian journal of Pure & Applied Physics, Vol. 48, Sept.2010, pp. 651-657**
2. U.N. Dash, G.S. Roy, D. Moharatha & M Tatulkdar "Evaluation of Acoustic Parameters of Halides of Alkali Metals and Ammonium

in Aqueous and Aqueous Dextran Solution at 298.15K" **Researcher, Vol.2, March 2011, pp. 6-12**

3. D. Moharatha, , M Tatulkdar. G.S. Roy & U.N. Dash "Ion association and solvent interaction-conductance of alkali metals and ammonium halides in aqueous binary mixtures containing dextran at different Temperatures" **Physics and Chemistry of Liquids, 49: 4, July-Aug 2011, 421-429,**
4. M Tatulkdar, D. Moharatha, G.S. Roy, & U.N. Dash "Acoustic and ultrasonic studies of alkali metals and ammonium halides in chitosan solutions at four different temperatures" **Indian Journal of pure & Applied Physics, Vol. 51, March 2013, pp.202-206**
5. D. Moharatha, M Tatulkdar. G.S. Roy & U.N. Dash "Acoustical and Thermodynamical Properties of Potassium ferricyanide and Potassium ferrocyanide in chitosan solutions at 298.15K" **International Journal Pharma and Bio Sciences, 4(4), Oct 2013, (P) 437-444**
6. D. Moharatha, G.S. Roy & U.N. Dash "Viscometric and Thermodynamic studies of interaction in ternary solutions containing Chitosan and Potassium ferricyanide and Potassium ferrocyanide at four different temperatures." **Advanced Science letters, 20, 3-4 March 2014, 744-747**
7. D. Moharatha, G.S. Roy & U.N. Dash "Ion association and solvent interaction-conductance of alkali halides in chitosan solutions at four different temperatures" **International Journal of Research in Engineering and Applied Sciences (IJREAS), 6(12), Dec 2016, 93-102**