

Name: **Dr. Jayasree Nath**

Designation: Guest Teacher, M.B.B. University

Address of communication: SBI Quarter, C 2/5, Badharghat, West Tripura, 799003.

Mobile Number: 9089479221

Email: [message2jayasree@yahoo.co.in](mailto:message2jayasree@yahoo.co.in)

Area of Specialization: Physical Chemistry

Research Area: Thin film (Langmuir –Blodgett and Spin coating) Bio-Organic substance.

Courses Taught: Polymer Chemistry, Colloid and Surface Chemistry, Quantam Chemistry, Physical Chemistry Practical.

Publication Details:

1. J. Nath, S. Deb, D. Bhattacharjee, R. K. Nath, *Molecular Crystals and Liquid Crystals*, **2011**, 548, 96-106.
2. S. Glutinosa, N. Das, J. Nath, A. Saha, B. dinda. *Journal of Pharmacy Research*, **2012**, 5, 4845-4848.
3. J. Nath, S.A.Hussian , A. Pal, S. Deb, R. K. Nath, I. Ghosh. *American international Journal of Research in Formal Applied & Natural Science*. **2013**, 3, 70-77.
4. I. Ghosh, A. Pal, J. Nath, B. K. Mishra & R. K. Nath. *Macromolecular Science, Part A: Pure and Applied Chemistry*, **2014**, 51, 49-54.
5. I. Ghosh, A. Pal, J. Nath, B. K. Mishra & R. K. Nath. *Surface Review and Letters*, **2014**, 21, 1450030.
6. J. Nath, S. Deb, A. Chakrabarty, A. Pal, R. K. Nath. *International Journal of Modern Physics B*, **2014**, 28, 1450020.
7. J. Nath, A. Pal, S. Deb, B. K. Mishra, R. K. Nath. *International Journal of Modern Physics B*. **2014**, 28, 1450073.
8. J. Nath, A. Chakraborty, R. K. Nath, S. A. Hussain, *Surface Review and Letters*, **2014**, 21, 1450049.

9. P. Debnath, S. Chakraborty, S. Deb, J. Nath, D. Bhattacharjee, S. A. Hussain *Journal of Physical Chemistry C*, **2015**, 11, 9429-9441.
10. P. Debnath, S. Chakraborty, S. Deb, J. Nath, B. Dey, D. Bhattacharjee, S. A. Hussain. *Journal of Luminescence*, **2016**, 179, 287-296.
11. P. Debnath, S. Chakraborty, S. Deb, J. Nath, B. Dey, D. Bhattacharjee, H. Soda, M. Tominaga, Y. Suzuki, J. Kawamata, S. A. Hussain. *Applied Clay Science*, **2017**, 147 105-116.
12. J. Saha, A. D. Roy, D. Dey, J. Nath, D. Bhattacharjee, S. A. Hussain. *Spectrochimica Acta Part A: Molecular and Biomolecular spectroscopy*, **2017**, 175, 110-116.

Seminar/ Conference/ Workshops Participated:

1. Formation and Characterisation of Layer-by-Layer films of Organic Molecules by Electrostatic Adsorption Process. **Jayasree Nath**, S. Deb, R.K.Nath (*State Level Seminar on Frontier Areas of Chemistry, 3<sup>rd</sup> September 2010. Best Presentation*)
2. Formation of Complex Langmuir monolayer of Water Soluble DTAB molecules **Jayasree Nath**, Subrata Deb, R.K.Nath (*National Seminar on Membranes, micro emulsion and Self-Assembled Systems [MMSAS-2010]*) Formation and Characterisation of Langmuir-Blodgett Films of Bathophenanthroline.
3. **Jayasree.Nath**, S. Deb, A. Pal, R.K.Nath (*International Conference on Emerging Areas of Chemistry ICEAC -2011*)
4. Miscibility of Two Components in a Binary Mixture of p-Quarterphenyl in Mixed Langmuir and Langmuir-Blodgett (LB) Films. **Jayasree.Nath**, Subrata Deb, R.K.Nath. (*Fifth National Conference on Surfactants, Emulsions and Biocolloids-2011 [Best presentation, J.K.Mittal Award]*)
5. Miscibility of Non-amphiphilic Coronene in Langmuir-Blodgett Films Mixed with Stearic Acid I. Ghosh, **J.Nath**, S. Biswas, S. Deb, R.K.Nath (*National Seminar On Green Chemistry & Nanoscience: Theory and Applications, 20-21 July, 2012.*)
6. Monolayer Characteristics of Chitosan assembled in Langmuir Films mixed with Arachidic acid. **Jayasree Nath**, Subrata Deb, Adrita Chakraborty, R.K.Nath. (*100<sup>th</sup> Indian Science Congress, 2013, Kolkata*)
7. Miscibility of Nonamphiphilic 2-aminoanthracene and behenic acid in monolayer at the air-water interface: A spectroscopic study. **Jayasree Nath**, Indra Ghosh, A. Pal, Subrata Deb, Ranendu Kumar Nath (*International conference on material science (ICMS-2013)*)

8. Antioxidant Activity of Isolated Phytochemicals from *Sida Glutinosa*. Niranjana Das, **Jayasree Nath**, Amitabha Saha, Biswanath dinda. (*National Seminar On Green Chemistry & Nanoscience: Theory and Applications, 20-21 July, 2012.*)

#### **Participation at Symposium / Seminar / Conference**

1. **Regional Seminar on Recent Trends in Chemistry**, 12-13<sup>th</sup> Sep 2009, Government Degree College, Dharmanagar, North Tripura.
2. **Frontier Lecture Series**, Tezpur University 20-22 Nov. 2009
3. **One Day Awareness Programme on Chemical Weapons Convention, Indian Chemical Council**. 13<sup>th</sup> March, 2011.
4. Seminar on **MAKE IN INDIA: SCIENCE AND TECHNOLOGY DRIVEN INNOVATION**. Catalysed and supported by Tripura State Council for Science and technology, Government Degree College, Teliamura. (**As a Chief Speaker**)

Seminar/ Conference/ Workshops Conducted: NIL

Membership in Academic Bodies: N/A

Involvement beyond Academic Activities:

- 1) Cultural Convenor
- 2) Member of certain administrative bodies
- 3) Resource person in a seminar