



Dr. Sourav Das

College Whole Time Faculty

Department of Chemistry

Contact Information

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Specialization

- Physical Chemistry



**THE BHAWANIPUR
EDUCATION SOCIETY COLLEGE**

Biographical Sketch

Sourav Das currently associated as College Whole Time Faculty. He obtained Ph.D. in the field of Surface Chemistry from Jadavpur University, Kolkata. His Ph.D. work includes different kind of Surfactants and their interaction with Biomacromolecules (Biopolymers, Proteins etc.) and Salts.

Academic Qualifications

| Abbreviation of the Degree | Name of the College / University | Area of Specialization | Year of Passing |
|----------------------------|---|------------------------|-----------------|
| Ph.D | Jadavpur University | Surface Chemistry | Ongoing |
| M.Sc | Presidency University, Kolkata | Physical Chemistry | 2013 |
| B.Sc (Honours) | University of Calcutta (Presidency college) | Chemistry | 2011 |

Position Holding (Full Time)

- College Part Time Faculty, Department of Chemistry, The Bhawanipur Education Society College, University of Calcutta, 12/04/2021 - 21/11/2021.
- College Whole Time Faculty, Department of Chemistry, The Bhawanipur Education Society College, University of Calcutta, 21/11/2021- Till date.



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College Whole Time Faculty

Department of Chemistry

Awards & Achievements

- Qualified in CSIR-UGC NET (Junior Research Fellow, JRF) conducted by Council of Scientific and Industrial Research (CSIR), Govt. of India on June 2015 (Rank 31, CSIR) and December 2015 (Rank 49 CSIR),.
- Qualified in Graduate Aptitude Test in Engineering (GATE) 2015 (All India Rank: 684), 2016 (All India Rank: 933), 2017 (All India Rank: 547).
- Awarded for the best paper presentation entitled “ Effect of Salts on the Self Aggregation of Surface Active Ionic Liquid and Determination of Aggregation Number” on December 5, 2017 at a National-Level Seminar conducted by Department of Chemistry, The Bhawanipur Education Society College (NAAC accredited), Kolkata.(POSTER PRESENTATION).
- Outstanding Paper Award on the topic: “Effect of Salts on the Self Aggregation.....of Aggregation Number” on December 14-15, 2017 in 2nd Regional Science and Technology Congress (Southern Region, 2017) organized by University of Kalyani and Department of Higher Education, Science and Technology and Biotechnology, Government of West Bengal.(ORAL PRESENTATION).

Association With Professional Body

- Life member of Indian Society for Surface Science and Technology (ISSST)

Subjects Taught

Surface Chemistry | Solution Chemistry | Hydrocarbon Chemistry | Reaction Mechanism | ‘d’ block chemistry | Biochemistry | Pharmaceutical Chemistry | Chemical Thermodynamics | Solid State Chemistry

Journal Publications

- A detailed assessment on the interaction of sodium alginate with a surface-active ionic liquid and a conventional surfactant: a multi technique approach; S. Das and S. Ghosh, Phys. Chem. Chem. Phys. 24 (2022) 13738-13762.





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Department of Chemistry

Journal Publications

- Addressing the Exigent Role of a Coumarin Fluorophore toward Finding the Suitable Microenvironment of Biomimicking and Biomolecular Systems: Steering to Project the Drug Designing and Drug Delivery Study; S. Paul, P. Roy, S. Das, S. Ghosh, P. Saha Sardar, and A. Majhi; ACS Omega 6 (2021) 11878-11896.
- Studies on the self-aggregation, interfacial and thermodynamic properties of a surface active imidazolium-based ionic liquid in aqueous solution: Effects of salt and temperature; S. Das, N. Patra, A. Banerjee, B. Das, S. Ghosh; J. Mol. Liq., 320 (2020) 114497.
- Theoretical Approaches on the Synergistic Interaction between Double-Headed Anionic Amino Acid-Based Surfactants and Hexadecyltrimethylammonium Bromide; M. Barai, M. K. Mandal, H. Sultana, E. Manna, S. Das, K. Nag, S. Ghosh, A. Patra, A. K. Panda; J Surfactants Deterg 23 (2020) 891-902.
- Formation of Mixed Micelle in an Aqueous Mixture of a Surface Active Ionic Liquid and a Conventional Surfactant: Experiment and Modeling; S. Das, S. Ghosh, B. Das; Journal of Chemical & Engineering Data 63 (2018) 3784-3800.
- Effect of an anionic surfactant (SDS) on the photoluminescence of graphene oxide (GO) in acidic and alkaline medium; P. Saha, D K. Pyne, S Ghosh, S. Banerjee, S. Das, S. Ghosh, P. Dutta, A. Halder ;RSC Advances 8 (2018) 584-595.
- Sodium carboxymethylcellulose induced aggregation of 1- decyl-3- methylimidazolium chloride in aqueous solutions; D. Ray, S. Das, R. De, B. Das; Carbohydrate Polymers 125 (2015) 255-264.
- Detailed Physicochemical Interaction of Inulin with Some Conventional Surfactants and Surface-Active Ionic Liquid, J. Mol. Liq., (MOLLIQ-D-20-00261, Just Accepted, Jun 25, 2021)

Publications In Edited Conference Volumes

- Interaction of Poly Acrylic Acid with Surfactants and Exploring the Role of β -CD; Conference: International Conference on Emerging Technologies for Sustainable Development (ICETSD'19); N. Patra, A. Mal, S. Das, S. Ghosh. (Conference Paper)
- Participated at TSSRA on July 24, 2014, jointly organized by Department of Chemistry, Presidency University, Kolkata, ISSST and Centre for Surface Science, Jadavpur University, Kolkata.





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College Whole Time Faculty

Department of Chemistry

Participation In Conferences / Webinars

- Participated at TSSRA on July 24, 2014, jointly organized by Department of Chemistry, Presidency University, Kolkata, ISSST and Centre for Surface Science, Jadavpur University, Kolkata.
- Participated at UGC sponsored State- Level Seminar on April 25, 2015, organized by The Bhawanipur Education Society College, Kolkata in collaboration with Indian Association for Productivity, Quality and Reliability, Kolkata.
- Participated at the National Seminar on Emerging Trends in Chemistry (ETC)- 2017 on February 15, 2017 under CAS II program organized by Department of Chemistry, Jadavpur University.
- Participated at the National Workshop on Electron Microscopy and Its Applications in Material Science and Biological Science on January 29-30, 2018 organized by Department of Instrumentation Science, Jadavpur University.
- Participated at the National Workshop on Current Trends in Cryogenic Technologies (CRYO- 2018) on March 13, 2018 organized under Centre for Rural and Cryogenic Technologies, Jadavpur University.
- Participated Webinar at National Science Day Celebration & National Seminar on Material Chemistry- Today & Tomorrow” February 28 and March 1, 2021 jointly organized by Indian Chemical Society and Department of Chemistry, Jadavpur University, Kolkata.
- Participated Students’ Webinar “Chem Voice’21” held on June 26, 2021, organised by Department of Chemistry in collaboration with IQAC, The Bhawanipur Education Society College.

Poster / Paper Presentations At Conferences

- Presented paper at national seminar “One Day National Seminar on Chemistry Behind Phytochemicals and Medicinal importance in curing various Disease of Human Being” on 30th March, 2023, jointly organised by Department of Chemistry, The Bhawanipur Education Society College in collaboration with RSC, Chemistry and Indian Chemical Society, Kolkata associated with seminar/FDP/Workshop Committee, science section and approved by IQAC [Topic: Potential Importance of Turmeric in phytochemistry and Herbal Medicine]
- Participated and presented a poster at the 23rd West Bengal State Science and Technology Congress, 2016 on 28-29th February, 2016. (Topic: Effect of Salts on the Self-Aggregation Behavior of Surface Active Ionic Liquids (SAILs) and the Determination of Aggregation Number)





Dr. Sourav Das

College Whole Time Faculty

Department of Chemistry

Poster / Paper Presentations At Conferences

- Participated and presented a paper at TSSRA on August 20, 2016, jointly organized by ISSST and Department of Chemistry, Sree Chaitanya College, Habra. (Topic: Mixed micelle formation).
- Participated and presented poster at the National Seminar on Recent Trends in Chemistry Research on 25-25 March, 2017 organized by Department of Chemistry, Visva-Bharati, Shantiniketan. (Topic: Mixed Micelle formation in an aqueous mixture of Surfactants: A Thermodynamic and Theoretical Study).
- Participated and presented a poster at the International Conference on Emerging Materials (ICEM -2017) on April 20-21, 2017 organized by Department of Chemistry and Chemical Technology, Vidyasagar University. (Topic: Mixed Micelle formation in an aqueous mixture of Surfactants: A Thermodynamic and Theoretical Study).
- Participated and presented poster at TSSRA on July 28, 2017, jointly organized by ISSST and Department of Chemistry, RMVC, Rahara. (Topic: Mixed Micelle formation in an aqueous mixture of Surfactants: A Thermodynamic and Theoretical Study).
- Participated and presented poster at NATCOSEB- 2017 on November 10-12, 2017, jointly organized by ISSST and School of Chemistry, Sambalpur University, Odisha. (Topic: Mixed Micelle formation in an aqueous mixture of Surfactants: A Thermodynamic and Theoretical Study).
- Participated and presented poster at the National-Level Seminar on Nurturing Chemistry: Bonding and Beyond organized by Department of Chemistry, BESC, Kolkata on December 5, 2017. (Topic: Effect of Salts on the Self-Aggregation of Surface Active Ionic Liquids (SAILs) and the Determination of Aggregation Number).
- Participated and presented a poster at the National Seminar on Current Developments in Chemical Sciences (CDCS-2018) on March 7, 2018 under CAS II program organized by Department of Chemistry, Jadavpur University. (Topic: Aggregation of Surface Active Imidazolium Ionic Liquids in presence of Salts and Different Temperatures).
- Participated and presented poster at TSSRA on October 6, 2018, jointly organized by ISSST and Sarojini Naidu College for Women, Kolkata. (Topic: Interaction of a SAIL with a conventional surfactant).
- Participated and presented a paper at the International Conference on Emerging Technologies for Sustainable Development (ICETSD -2019) on March 5-6, 2019 organized by Government College of Engineering and Leather Technology, Kolkata, India. (Topic: Interaction of Poly Acrylic Acid with surfactants and exploring the role of β -CD).





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Department of Chemistry

Poster / Paper Presentations At Conferences

- Participated and presented a poster at the National Seminar on Chemical Sciences: Today and Tomorrow (CSTT-2019) on March 14, 2019 under CAS II program organized by Department of Chemistry, Jadavpur University. (Topic: Interaction of Bromelain with Surfactants: A UV-Vis and resonance Study).
- Participated and presented poster at NATCOSEB- 2019 on October 18-20, 2019, jointly organized by ISSST and Department of Chemistry, Amity University Kolkata (Topic: Interaction of Bromelain with anionic surfactants).
- Participated and presented poster at International Symposium on Current Trends in Chemistry (ISCTC-2020), January 10, 2020, jointly organized by Indian Chemical Society and Department of Chemistry, DHWU (Topic: Exploring The Interaction of Stem Bromelain with Bile Salt Surfactants & Conventional Anionic Surfactants at Phosphate Buffer Medium of pH 7.0).

Oral Presentations / Invited Speaker At Conferences

- Delivered an oral presentation in the 2nd Regional Science and Technology Congress (Southern Region, 2017) organized by University of Kalyani and Department of Higher Education, Science and Technology and Biotechnology, Government of West Bengal on December 14-15, 2017. (Topic: Effect of Salts on the Self-Aggregation Behavior of Surface Active Ionic Liquids (SAILs) and the Determination of Aggregation Number).
- Presented oral in the 25th West Bengal State Science and Technology Congress, 2018 held on 4-5th March, 2018 at the Science City, Kolkata, organized by Department of Higher Education, Science and Technology and Biotechnology, Government of West Bengal. (Topic: Effect of Salts on the Self-Aggregation Behavior of Surface Active Ionic Liquids (SAILs) and the Determination of Aggregation Number).
- Participated as invited speaker at TSSRA on September 12, 2019, organized by Department of Chemistry and Chemical Technology, Vidyasagar University and ISSST, Kolkata (Topic: Aggregation of Surface Active Imidazolium Ionic Liquid in Aqueous Solution: Effect of Temperature and Salts).





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Departmental Activities

- Acting as a Coordinator of “Chem Voice’22” held on November 24, 2022 organised by Department of Chemistry in collaboration with IQAC, associated with Seminar/FDP/Workshop Committee of the science section.
- Acting as a departmental member in ‘Cultural and Education Trip Committee’ of science section.
- Acting as a member of the organizing committee of the departmental Students’ Webinar “Chem Voice’21” held on June 26, 2021, organised by Department of Chemistry in collaboration with IQAC, The Bhawanipur Education Society College.

Vision Statement

- Encourage students to embrace enterprise, self-confidence, creativity and in all their endeavors.
- Inspiring free thinking among students, and teach them to be game changers in their chosen professions.
- Promote the virtues of research and scholarly inquiry, so that students can bring important critical thinking skills to their pursuits, both inside and outside the college.

Signature of the
Faculty Member

Date: 01st September, 2022



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