

Swagata Pahari



Contact Information

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Polymer & Advance Material Laboratory
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Current Interests

- Polymer electrolyte membrane for PEMFC.
- Proton conduction mechanism through the PEM.

Education

- BSc in Chemistry from Jadavpur University, Kolkata, West Bengal.(2007).
- MSc in Physical Chemistry from Jadavpur University (2009).

Presentations

- Presented poster in Theoretical Chemistry Symposium (TCS) at Kanpur (2010).
- Presented poster in 'National Science Day' at NCL.

Experience

- July 2011 - current: JRF at NCL, Pune. Studying the proton conduction mechanism through a membrane of Polymer Electrolyte Membrane Fuel Cell (PEMFC).
- September 2009 - June 2010: Project Assistant at NCL, Pune. Worked on the structural and dynamical study of monomer of Polybenzimidazole mixed with phosphoric acid, a potential membrane for fuel cell.
- February 2009 - April 2009: Worked on MSc project "Effect of the interaction of gelatine with CTAB on the reactivity of Ascorbic Acid" at Jadavpur University, Kolkata

Publications

- Tapas Majumdar, Swagata Pahari, Harasit K Mandal, Ambikesh Mahapatra "Kinetic Studies on the reaction between $[\text{Co}(\text{NH}_3)_5\text{N}_3]\text{Cl}_2$ and ascorbic acid: Effect of surfactant, polymer and their mixture, *Journal of Molecular Liquids* 153(2010) 101-106