

Name: **Monohar Hossain Mondal**

Designation: Assistant Professor in Chemistry (W.B.E.S.)

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Academic background: **M.Sc., Ph.D. (Thesis Submitted)**

Work Experience: 2+ years.

Past Experience: Worked as a Proctor in association with the Waterloo University, Canada.

Research Interest: Inorganic Catalysis: Natural and chemical surfactants and their chemistry, Bio-Inorganic Chemistry of metals, Green Chemistry.

List of Publications: **1.** Modernization of surfactant chemistry in the age of gemini and bio-surfactants: a review, **M H Mondal**, S Malik, A Roy, R Saha, B Saha. RSC Advances, 2015, 5 (112), 92707-92718.

2. Combination of Sodium Dodecylsulfate and 2, 2'-Bipyridine for Hundred Fold Rate Enhancement of Chromium (VI) Oxidation of Malonic Acid at Room Temperature: A Greener Approach, S Malik, **M H Mondal**, A Ghosh, S De, K Mahali, SS Bhattacharyya, B Saha Journal of Solution Chemistry, 2016, 45 (7), 1043-1060.

3. Micellar effect on hetero-aromatic nitrogen base promoted chromic acid oxidation of 1,3-propanediol in aqueous media at room temperature, S Malik, D Saha, **M H Mondal**, P Sar, A Ghosh, K Mahali, B Saha Journal of Molecular Liquids, 2017, 225, 207-216.

4. Review on chemically bonded geminis with cationic heads: second-generation interfactants. **M H Mondal**, A Roy, S Malik, A Ghosh, B Saha Research on Chemical Intermediates, 2016, 42 (3), 1913-1928.

5. Employment and resurrection of surfactants in bipyridine promoted oxidation of butanal using bivalent copper at NTP, **M H Mondal**, S Malik, S De, S S Bhattacharyya and B Saha, Research on Chemical Intermediates, 2017, 43(3), 1651-1670.

6. Extraction of natural surfactant saponin from soapnut (*Sapindus mukorossi*) and its utilization in the remediation of hexavalent chromium from contaminated water, **M H Mondal**, S Malik, A Garain, S Mandal and B Saha, Tenside Surfactants Detergents (In Press), 2017.

7. Characterization of pyrene solubilization in selective micellar media of novel bio-degradable natural surfactant saponin (extracted from soap nut) and conventional surfactant SDBS in presence and absence of common salt NaCl, **M H Mondal**, S Malik and B Saha, 2017, Tenside surfactants and detergents (In Press).

8. ACC deaminase producing halotolerant *Enterobacter* sp. promoted plant growth under salt stress by reducing ROS and stress ethylene. A. Sarkar, P. K. Ghosh, K. Pramanik, S. Mitra, T. Soren, S. Pandey, **M. H Mondal** T.K. Maiti (Manuscript under revision), 2017.

9. Employment of Different Spectroscopic tools for the investigation of Chromium (VI) Oxidation of Acetaldehyde in Aqueous Micellar medium, S. Malik, A. Ghosh, P. Sar, **M H Mondal**, K. Mahali, B. Saha, J. Chem. Sci. 129, 2017, 637-645. DOI: 10.1007/s12039-017-1276-4.

10. Microbial assisted (*Pseudomonas* sp.) Production of novel bio-surfactant rhamnolipids and its characterisation by different spectral studies, **M H Mondal**, A Sarkar, T K Maiti and B Saha, J. Mol. Liq. 242, 2017, 873-878.

11. Accounts on surfactant chemistry: Researches, Applications and Adverse effects on environment, **M H Mondal** and B Saha (Manuscript Submitted), J.Ind. Eng. Chem. 2017.