

Bio-data

Name: Dr. Monohar Hossain Mondal

Official Designation: Assistant Professor in Chemistry, WBES

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Educational qualification: MSc., PhD

Area of Specialization: Inorganic Chemistry

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

Work Experience:

- Working as Assistant Professor of Chemistry in WBES for 3+ years
- Worked as a Proctor in association with the Waterloo University, Canada.

List of Publications:

Visit : <https://scholar.google.co.in/citations?user=9iOpZ8cAAAAJ&hl=en> for detailed publications.

Recent Articles are-

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. 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 J. Mol. Liq. 2017, 225, 207-216.

3. 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, Res. Chem. Intermed. 2017, 43(3), 1651-1670.

4. 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 Surf. Det. 2017, 54(6), 519-529.

5. 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, Tenside surf. det. 2017, 54 (5), 378-384.

Special Awards and Achievements:

(1) 52nd rank in Madhyamik examination 2006.

(2) AIR 76 in GATE-2013, AIR-31 in CSIR-NET 2013, WBCSC-SET in June 2013.

(3) Award in West Bengal State Science Congress 2011 for discovering new pattern in Modern Periodic table.