KAWSAR AHMED

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CONTACT DETAILS

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ACADEMIC QUALIFICATION

- B.Sc. & M.Sc. in Chemistry (NU)
- Masters in Materials Science (BUET), Ongoing

PROFESSIONAL MEMBERSHIP

- BCSIR Scientist Association, Bangladesh Council of Scientific and Industrial Research, Dhanmondi, Dhaka.
- Bangladesh Chemical Society, Bangladesh

AREA OF RESEARCH CONCENTRATION

- Hydrogen Production from Biomass Gasification
- Gasification and Pyrolysis
- Biocomposite Materials
- Polymer Science

AFFILIATION

Scientific Officer, Hydrogen Energy Laboratory, BCSIR Laboratories, Chattogram

BIOGRAPHY

Kawsar Ahmed is a devoted researcher in Hydrogen Production and Composite Materials. He has acquired his B.Sc (hons) & M.Sc Degree in Chemistry from National University of Bangladesh (Dhaka College). Before that he has completed his SSC (2004) and HSC (2006) in Science group from Roypur K. C High School and Dr. Mosharraf Foundation College under Comilla Board consecutively. He is

also continuing second Masters in Materials Science from Bangladesh University of Engineering and Technology (BUET) where he is doing research on biocomposite. After completing bachelor degree (B.Sc, hons) in chemistry, He joined to Bangladesh Council of Scientific and Industrial Research (BCSIR) as Research Chemist (RC) in October, 2016. On October, 2018, He resigned from Research Chemist and then joined as Scientific Officer (SO) on to same institution.

He has been doing rigorous research on low cost and environment friendly way of hydrogen production through biomass gasification. Optimization of all related steps to separate pure hydrogen from producer gas obtained from biomass gasification is the focal point of his present research. His efforts will contribute to implement Hydrogen Economy in Bangladesh. He has also been serving as Lab Coordinator in Hydrogen Energy Laboratory since August, 2019.

He **has three journal articles published** in international journals. He is the proud member of BCSIR Scientist Association and Bangladesh Chemical Society.

SELECTED PUBLICATIONS

2018

Journal papers

1. Abdus Salam*, **Kawsar Ahmed**, Nazma Akter, Tareq Hossain, Bawadi Abdullah (2018) A review of hydrogen production via biomass gasification and its prospect in Bangladesh. *Int J Hydrogen Energy* 43 (2018) 14944-14973. https://doi.org/10.1016/j.ijhydene.2018.06.043.
2. Kowsar A, Uddin Farhad SF, Nasifa A, **Kawsar A,** Yesmin S, (2018) Design, Construction and Performance Studies of a Nonelectric Refrigerator Using Eco-friendly Refrigerant Materials. *J Fundam Renewable Energy Appl* 8: 264. doi:10.4172/2090-4541.1000264.
3. M. Abdus Salam, **Kawsar Ahmed**, Tareq Hossain, Md. Shehan Habib, Md. Sahab Uddin, Nasrin Papri, (2019) Prospect of Molecular Sieves Production using Rice Husk in Bangladesh: A Review. *Int j of Chemistry*, Mathematics and Physics (IJCMP), Vol-3, Issue-6, Nov-Dec, 2019, https://dx.doi.org/10.22161/ijcmp.3.6.2

Scientific presentation

1. Scientific presentation on "**Development of molecular sieve from domestic biomass for petrochemical refinery industry**", MMD D Laboratory, BCSIR Laboratories, Chattogram, Bangladesh Council of Scientific and Industrial Research, Ref: 39.360.029.03.00.001.2016/1601 and 03/10/2018, 3:00pm.