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Sk. Yasir Arafat Siddiki

Assistant Professor

Research Area Alternative fuels, energy management, refinery and petrochemicals, process simulation and optimization, environmental pollution, process safety etc.

Education

Bachelor of Science in Chemical Engineering

Bangladesh University of Engineering and Technology (BUET), (2010-2016)

Higher Secondary Certificate (HSC)

Govt. M.M. City College, Khulna, (2008-2010)

Secondary School Certificate (SSC)

Khulna Zilla School, Khulna, (2006-2008)

Service Records

- **Assistant Professor**
Department/Section: Chemical Engineering
Khulna University of Engineering & Technology From 01-01-1970 to 01-01-1970
- **Engineer (Chemical)**
Department/Section: R & D
Bashundhara Oil & Gas Company Ltd. From 01-01-1970 to 01-01-1970
Working Area: Refinery Project
- **Prob. Engr. (Chemical)**
Department/Section: Process
Eastern Refinery Ltd. From 01-01-1970 to 01-01-1970
Working Area: SPM Project
- **Lecturer**
Department/Section: Chemical Engineering
Khulna University of Engineering & Technology From 01-01-1970 to 01-01-1970

Research Interest

Alternative fuels, energy management, refinery and petrochemicals, process simulation and optimization, environmental pollution, process safety etc.

Publication

Books

Journals

7. (2021), " Bioenergy recovery potential through the treatment of the meat processing industry waste in Australia.," **Journal of Environmental Chemical Engineering**, Elsevier, vol9, no.4
6. (2021), " Source, distribution and emerging threat of micro- and nanoplastics to marine organism and human health: Socio-economic impact and management strategies.," **Environmental Research**, Elsevier, vol195
5. (2021), " Estimation of Sustainable Bioenergy Production from Olive Mill Solid Waste.," **Energies**, MDPI, vol14, no.22
4. (2021), " Prospects of Bioenergy Production From Organic Waste Using Anaerobic Digestion Technology: A Mini Review.," **Frontiers in Energy Research**, Frontiers, vol9, no.33
3. (2021), " Effect of nanocatalysts on the transesterification reaction of first, second and third generation biodiesel sources- A mini-review.," **Chemosphere**, Elsevier, vol270
2. (2021), " Theoretical calculation of biogas production and greenhouse gas emission reduction potential of livestock, poultry and slaughterhouse waste in Bangladesh.," **Journal of Environmental Chemical Engineering**, Elsevier, vol9, no.3
1. (2022), " Microalgae biomass as a sustainable source for biofuel, biochemical and biobased value-added products: An integrated biorefinery concept.," **Fuel**, Elsevier, vol307

Conference

5. Siddiki, S., Afroz, S. Y. A., Munib, M. M., Amin, G. M. A. and R.A., R. (26-29 November, 2015.), "Simulation of Production of Nitric Acid.," **International Conference on Mechanical Engineering and Renewable Energy (ICMERE2015)**

4. Islam, I. , Siddiki, M. M. , Kabir, S. Y. A. and B., K. (13 – 15 January, 2017.) , "Dehydration of Methanol to Dimethyl Ether over Alumina Catalyst.," **International Conference on Engineering Research, Innovation and Education (ICERIE2017)**
3. Siddiki, S. , Kabir, S. Y. A. a. and (2019), K. B.). (11 – 13 December, 2019.) , "Impact of a 100,000 barrel per day oil refinery in the context of Bangladesh. ," **International Conference on Mechanical Engineering and Renewable Energy (ICMERE2019)**
2. Siddiki, S. , Ahmed, S. Y. A. , Kirtania, M. G. T. , Kabir, K. and B., K. (December 20-22, 2020.) , "Environmental sustainability of cooking fuels in Bangladesh: a life-cycle assessment of fuels in use and their potential alternatives. ," **International Conference on Chemical Engineering (ICChE2020)**
1. Siddiki, S. , Ahmed, S. Y. A. a. and T., M. G. (19 – 21 December, 2020.) , "Simulation and Risk Analysis of the Accidental Release of Toxic Gas from an Industrial Complex. ," **International Conference on Mechanical, Industrial and Energy Engineering (ICMIEE2020)**