



Dr. Abdullah Al-Faruk

Professor

Research Area

Education

Biography

Research Interest

Publication

Books

Journals

11. Islam, J. and Al-Faruk, A. A. (2020), " Numerical Study on the Effects of Total Solid Concentration on Mixing Quality of Non-Newtonian Fluid in Cylindrical Anaerobic Digesters," **Journal of Mechanical and Manufacturing Process**, Helics Group LLC, vol1, no.1, pp.1-10
10. Sakib, S. and Al-Faruk, A. A. (2018), " Flow and Thermal Characteristics Analysis of Plate Finned Tube and Annular-Finned Tube Heat Exchangers for In-Line and Staggered Configurations," **Mechanics and Mechanical Engineering**, Lodz University of Technology, vol22, no.4, pp.1407-141
9. Rahi, K. H., Mortuza, G. M. and Al-Faruk, A. A. (2018), " Development of a source code to analyze the effect of Reynolds number on a square lid driven cavity," **Journal of Mechanical and Energy Engineering**, Koszalin University of Technology, vol2(42), no.2, pp.147-154
8. Khan, M. M. I. and Al-Faruk, A. A. (2018), " Comparative Analysis of Aerodynamic Characteristics of Rectangular and Curved Leading Edge Wing Planforms," **American Journal of Engineering Research**, vol7, no.5, pp.281-291
7. Al-Faruk, A. A. and Sharifian, A. (2017), " Flow field and performance study of vertical axis Savonius type SST wind turbine," **Energy Procedia**, Elsevier, vol110, pp.235-242
6. Al-Faruk, A. A. and Sharifian, A. (2016), " Geometrical optimization of a swirling Savonius wind turbine using an open jet wind tunnel," **Alexandria Engineering Journal**, Elsevier, vol55, no.3, pp.2055-206
5. Al-Faruk, A. A. and Sharifian, A. S. (2015), " Effects of flow parameters on the performance of vertical axis swirling type Savonius wind turbine," **International Journal of Automotive and Mechanical Engineering**, UMP Publisher, vol12, pp.2929-2943
4. Halder, M. R., Al-Faruk, A. A. and Nabi, M. H. (2011), " Effects of Flow and Atomizer Parameters on the Spray Cone Angle in a Hollow Cone Swirl Atomizer," **Journal of Engineering Science**, Faculty of Civil Engineering, KUET, vol2, no.1 & 2, pp.1-9
3. Al-Faruk, A. A., Ahmed, N., Haque, M. A. and Mahmud, S. A. (2011), " Design of a Knowledge-Based Manufacturing Flow Shop Sequencing System using Fuzzy Logic," **International Journal of Engineering & Applied Sciences**, Akdeniz University, vol3, no.3, pp.1-14
2. Al-Faruk, A. A., Hasib, M. A., Ahmed, N. and Das, U. K. (2010), " Prediction of Weld Bead Geometry and Penetration in Electric Arc Welding using Artificial Neural Networks," **International Journal of Mechanical & Mechatronics Engineering**, IJENS, vol10, no.4, pp.19-24
1. Hasib, M. A., Al-Faruk, A. A. and Ahmed, N. (2010), " Mist Application of Cutting Fluid," **International Journal of Mechanical & Mechatronics Engineering**, IJENS, vol10, no.1, pp.13-18

Conference

20. (25 February 2021), "Numerical Simulation of an Oscillating Water Column Device and Investigating the Effects of Lip Submergence on Velocity and Pressure," **13th International Conference on Mechanical Engineering**, AIP Conference Proceedings, pp.040004-1-6
19. (19-21 December 2020), "Effect of Cant Angles on the Aerodynamic Performances of an Airplane Wing with Blended Type Winglet: Numerical Analysis," **6th International Conference on Mechanical, Industrial and Energy Engineering**, Faculty of Mechanical Engineering, KUET
18. Khan, M. T., Islam, S. M. and Al-Faruk, M. I. I. a. A. (19-21 December 2020), "Effect of Dynamic Stall on the Flow Characteristics of a Darrieus Wind Turbine Blade at Low Wind Speed: A Numerical Approach," **6th International Conference on Mechanical, Industrial and Energy Engineering**, Faculty of Mechanical Engineering, KUET
17. Paul, R. D. and Karua, A. A. P. (19-21 December 2020), "A Numerical Study on the Drag Reduction of Sedan Car using Vortex Generator," **6th International Conference on Mechanical, Industrial and Energy Engineering**, Faculty of Mechanical Engineering, KUET
16. Hasan, M. M. and Al-Faruk, A. A., "Numerical Study on the effect of Mach Number and Angle of Attack on Shock Wave Formation in Transonic Regime," **International Conference Mechanical Engineering and Renewable Energy**, CUET
15. Mohsin, S. I. and Al-Faruk, A. A. (18-20 December), "Numerical Simulation of an Oscillating Water Column Device and Investigating the Effects of Lip Submergence on Velocity and Pressure," **13th International Conference on Mechanical Engineering**, Department of Mechanical Engineering, BUET
14. Khan, M. T., Inam, M. I. and Al-Faruk, A. A. (19-22 Jan 2019), "CFD Analysis of a Floating Offshore Vertical Axis Wind Turbine," **1st International Conference on Sustainability in Natural and Built Environment**, GCSTMR
13. Islam, N., Islam, M. M., Mashud, M. and Faruk, A. A. (23-24 December, 2018), "Experimental Study on NACA 2415 Airfoil with Rotating Cylinder at Leading Edge," **5th International Conference on Mechanical, Industrial and Energy Engineering**, Faculty of Mechanical Engineering, KUET
12. Khan, M. T., Inam, M. I. and Al-Faruk, A. A. (23-24 December, 2018), "Effect of Tip Speed Ratio on the Flow Characteristics of Single-bladed Darrieus Wind Turbine," **5th International Conference on Mechanical, Industrial and Energy Engineering**, Faculty of Mechanical Engineering, KUET

11. Khan, M. T. , Inam, M. I. and Al-Faruk, A. A. (28 September 2018) , "Numerical Analysis of Flow Characteristics around a Single-bladed Darrieus Wind Turbine," **International Conference on Energy & Environment** , Shahjalal University of Science & Technology
10. Hossain, S. M. T. and Al-Faruk, A. A. (18-20 December, 2017) , "Analysis of Simple and Cantilever Beams using MATLAB Graphical User Interfaces," **4th International Conference on Mechanical Engineering and Renewable Energy** , CUET
9. Al-Faruk, A. A. , Sharifian, A. and Wandel, A. P. (2015) , "CFD Study of Detailed Flow Field and Performance of Swirling Savonius Wind Turbine," **11th International Conference on Mechanical Engineering** , Department of Mechanical Engineering, BUET
8. Al-Faruk, A. A. and Sharifian, A. (8-11 December 2014) , "Influence of Blade Overlap and Blade Angle on the Aerodynamic Coefficients in Vertical Axis Swirling type Savonius Wind Turbine," **19th Australasian Fluid Mechanics Conference** , Australasian Fluid Mechanics Society
7. Al-Faruk, A. A. and Sharifian, A. (September 2012) , "Angular Velocity of a Combined Unloaded Savonius Turbine with a Vortex Inducing Chamber - a CFD Approach," **Southern Regional Engineering Conference** , Engineers Australia
6. Al-Atresh, R. A. , Sharifian, S. and Al-Faruk, A. A. (3-7 December 2012) , "The effect of inlet velocity and temperature on the strength of the swirling induced by a split channel: A CFD approach," **18th Australasian Fluid Mechanics Conference** , Australasian Fluid Mechanics Society
5. Al-Faruk, A. A. , Sharifian, A. S. and Al-Atresh, S. A. (3-7 December 2012) , "Numerical Investigation of Performance of a New Type of Savonius Turbine," **18th Australasian Fluid Mechanics Conference** , Australasian Fluid Mechanics Society
4. Bari, M. A. A. , Al-Faruk, A. A. , Nabi, M. and Halder, M. R. (23-24 December, 2010) , "Effects of Flow and Atomizer Parameters on the Spray Cone Angle in a Hollow Cone Swirl Atomizer," **International Conference on Mechanical, Industrial and Energy Engineering** , Faculty of Mechanical Engineering, KUET
3. Al-Faruk, A. A. , Bari, M. A. A. , Shaheed, M. , Jubayer, A. A. and Halder, M. R. (23-24 December, 2010) , "Catalytic Upgrading of Vegetable Oil," **International Conference on Mechanical, Industrial and Energy Engineering** , Faculty of Mechanical Engineering, KUET
2. Al-Faruk, A. A. , Hasib, M. A. and Ahmed, N. (23-24 December, 2010) , "Optimization of Process Parameters in MIG Welding using Analytical Hierarchy Process," **International Conference on Mechanical, Industrial and Energy Engineering** , Faculty of Mechanical Engineering, KUET
1. Hasib, M. A. , Al-Faruk, A. A. and Ahmed, N. (23-24 December, 2010) , "Mist Application of Cutting Fluid in Milling Machine," **International Conference on Mechanical, Industrial and Energy Engineering** , Faculty of Mechanical Engineering, KUET