Department of Mechanical Engineering
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Biography

KUET

Dr. Mohammad Ariful Islam
Professor
Research Area

Education

Ph.D.
Saga University,Japan(2006-2009)
Master of Engineering
Saga University,Japan(2001-2003)
B. Sc. Engineering in Mechanical Engineering
Rajshahi University of Engineering & Technology,Bangladesh(1998)Group: Mechanical Engineering,
Post Doctoral Fellow
Saga University,Japan(2014-2016)

Service Records

- **Professor (Grade 1)**
  Department/Section: Mechanical Engineering
  Khulna University of Engineering & Technology *From 19-10-2019 to 01-01-1970*
- **Professor**
  Khulna University of Engineering & Technology *From 13-09-2012 to 01-01-1970*
- **Associate Professor**
  Department/Section: Mechanical Engineering
  Khulna University of Engineering & Technology *From 29-06-2010 to 12-09-2012*
- **Assistant Professor**
  Department/Section: Mechanical Engineering
  Khulna University of Engineering & Technology *From 15-04-2004 to 28-06-2010*
- **Lecturer**
  Department/Section: Mechanical Engineering
  Khulna University of Engineering & Technology *From 16-05-1999 to 14-04-2004*

Research Interest

Microbial Fuel Cell, Low GWP Refrigerant, Building Energy system, Renewable energy for cooling, Ground Coupled Heat Pump System, vapour absorption system, Numerical simulation of falling liquid film

Publication

Books

Journals

13. Morshed,M. , Alam,M. J. , Tuhin,A. R. , Islam,M. A. and Miyara,A. (2024) , " Empirical models of thermal conductivity of cis-1,3,3,3-tetrafluoropropene (R1234ze(Z)) with measurements using transient hot-wire method," ***International Journal of Refrigeration***, Elsevier BV, DOI:https://doi.org/10.1016/j.ijrefrig.2023.11.004

12. Alam,M. J. , Islam,M. A. , Kariya,K. and Miyara,A. (2021) , " Viscosity Measurement of cis-1,3,3,3-tetrafluoropropene (R1234ze(Z)) by Tandem Capillary Tubes Method," ***International Journal of Refrigeration***, Elsevier BV, DOI:https://doi.org/10.1016/j.ijrefrig.2021.04.004

11. Alam,M. J. , Islam,M. A. , Kariya,K. and Miyara,A. (2018) , " Measurement of thermal conductivity and correlations at saturated state of refrigerant trans-1-chloro-3,3,3-trifluoropropene (R-1233zd(E))," ***International Journal of Refrigeration***, Elsevier BV, DOI:https://doi.org/10.1016/j.ijrefrig.2018.02.004

10. Alam,M. J. , Islam,M. A. , Kariya,K. and Miyara,A. (2017) , " Measurement of thermal conductivity of cis-1,1,1,4,4,4-hexafluoro-2-butene (R-1336mzz(Z)) by the transient hot-wire method," ***International Journal of Refrigeration***, Elsevier BV, DOI:https://doi.org/10.1016/j.ijrefrig.2017.08.014

9. Alam,M. J. and Islam,M. A. (2016) , " Effect of external shading and window glazing on energy consumption of buildings in Bangladesh," ***Advances in Building Energy Research***, Informa UK Limited, DOI:https://doi.org/10.1080/17512549.2016.1190788

8. Islam,M. A. , Kariya,K. , Ishida,H. , Akasaka,R. and Miyara,A. (2016) , " Application of the extended corresponding states model for prediction

of the viscosity and thermal conductivity of cis-1,3,3,3-tetrafluoropropene (R1234ze(Z))," ***Science and Technology for the Built Environment***, Informa UK Limited, DOI:https://doi.org/10.1080/23744731.2016.1206797

7. Mondal,A. ,Alam,M. D. and Islam,M. A. (2015) , " Design & Construction of a Solar Driven Ammonia Absorption Refrigeration System," ***International Journal of Scientific and Research Publications***, ISBN:2250-3153, vol10, no.5

6. Emran,M. and Islam,M. A. (2014) , " Numerical Investigation of Flow Dynamics and Heat Transfer Characteristics in a Microchannel Heat Sink," ***Procedia Engineering***, Elsevier BV, DOI:https://doi.org/10.1016/j.proeng.2014.11.773

5. Islam,M. A. and Miyara,A. (2012) , " Numerical Investigation of Flow behavior and Heat Transfer Characteristics inside Herringbone Microfin Tube," ***Journal of Thermal Science***, ISBN:2248-9622, vol2, no.2

4. Islam,M. A. ,Miyara,A. and Setoguchi,T. (2009) , " Numerical investigation of steam absorption in falling film of LiBr aqueous solution with solitary waves," ***International Journal of Refrigeration***, Elsevier BV, DOI:https://doi.org/10.1016/j.ijrefrig.2009.06.007

3. Islam,M. A. and Miyara,A. (2007) , " Liquid film and droplet flow behaviour and heat transfer characteristics of herringbone microfin tubes," ***International Journal of Refrigeration***, Elsevier BV, DOI:https://doi.org/10.1016/j.ijrefrig.2007.03.009

2. Islam,M. A. , Miyara,A. , Nosoko,T. and Setoguchi,T. (2007) , " Numerical investigation of kinetic energy and surface energy of wavy falling liquid film," ***Journal of Thermal Science***, Springer Science and Business Media LLC, DOI:https://doi.org/10.1007/s11630-007-0237-5

1. Miyara,A. , Islam,M. A. , Mizuta,Y. and Kibe,A. (2003) , " Experimental observation of two phase flow of R123 inside a herringbone microfin tube," ***Journal of Thermal Science***, Springer Science and Business Media LLC, DOI:https://doi.org/10.1007/s11630-003-0081-1

Conference