

# CURRICULUM VITAE OF MUHAMMAD MOSTAFA KAMAL BHUIYA

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**Dr M. M. Kamal Bhuiya**

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Department of Mechanical Engineering

Chittagong University of Engineering & Technology (CUET)

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## RESEARCH HIGHLIGHT

- More than **Nineteen years** teaching and extensive research experience on Renewable Energy, Alternative Fuel, Biofuel, Thermo-Fluids Processes, & Enhancement of Heat Transfer.
- Achieved the recognition of the “**World’s Top 2% Research Scientist**”, listed by Elsevier and Stanford University, USA, 2021, 2022, 2023 & 2024.
- Nominated as the “**Best Research Publication Award**” of the year 2019 at the Faculty of Mechanical Engineering by the Chittagong University of Engineering & Technology (CUET).
- Published **50+ Peer-Reviewed Scientific Research Articles** in Reputed International Journals and **30+ International Conference Proceedings**.
- **Research Impact:** [H-index=31+, i10-index = 40+, Citations =4K+]. Google Scholar Link: <https://scholar.google.com/citations?user=c0KGOgEAAAAJ&hl=en>.
- Supervised **75+ undergraduate students** and supervising **5 postgraduate students**.
- Worked as a co-editor of the **Mechanical Engineering Research Journal (MERJ)** for volume 12 (<http://www.cuet.ac.bd/merj/index.html>).

## RESEARCH EXPERIENCE

- (2013 – 2017) **Postgraduate Research Staff**  
**Research Project Title: “2<sup>nd</sup> Generation Biodiesel as an Alternative Fuel for Diesel Engine”.**  
School of Engineering and Technology, Central Queensland University (CQUniversity), Rockhampton, Queensland 4702, Australia.
- (2011 – 2012) **Research Assistant**  
**Research Project Title: “Clean Diesel Technology for Military and Civilian Transport Vehicles”.**

Department of Mechanical Engineering, Centre for Energy Sciences (CEW),  
University of Malaya, Kuala Lumpur 50603, Malaysia.

➤ (2004 – 2008) **Postgraduate Research Staff**

**Research Project Title: “*Enhancement of Heat Transfer in Turbulent Flow through a Tube with Different Types of Inserts*”.**

Department of Mechanical Engineering, Bangladesh University of Engineering & Technology (BUET), Dhaka 1000, Bangladesh.

## **RESEARCH INTEREST**

- Renewable Energy Technologies, Alternative Fuel, Biofuel
- Energy Efficiency and Energy Conversion
- Thermo-Fluid Flow Processes, Enhancement of Heat Transfer
- Engineering Design and Management

## **REVIEWER EXPERTISE**

- International Journal of Green Energy, Energy, Energy Conversion and Management, Energies
- Renewable and Sustainable Energy Reviews, Industrial Crops and Products
- International Journal of Heat and Mass Transfer, International Communications in Heat and Mass Transfer
- Journal of Cleaner Production, Fuel, etc.

## **PROFESSIONAL EXPERIENCE**

➤ (2020–Till now) **Professor**

Department of Mechanical Engineering, Chittagong University of Engineering & Technology (CUET), Chattogram 4349, Bangladesh.

➤ (2021–2022) **Professor & Head**

Department of Petroleum and Mining Engineering, Chittagong University of Engineering & Technology (CUET), Chattogram 4349, Bangladesh.

➤ (2018– 2019) **Associate Professor**

Department of Mechanical Engineering, Chittagong University of Engineering & Technology (CUET), Chattogram 4349, Bangladesh.

➤ (2008–2017) **Assistant Professor**

Department of Mechanical Engineering, Chittagong University of Engineering & Technology (CUET), Chattogram 4349, Bangladesh.

➤ (2005–2008) **Lecturer**

Department of Mechanical Engineering, Chittagong University of Engineering & Technology (CUET), Chattogram 4349, Bangladesh.

➤ (2017–2017) **Lecturer (Casual)**

School of Engineering and Technology, Central Queensland University (CQUniversity), Rockhampton, Queensland 4702, Australia.

➤ (2004–2005) **Teaching Assistant**

Department of Mechanical Engineering, Bangladesh University of Engineering & Technology (BUET), Dhaka 1000, Bangladesh.

## COMMUNITY SERVICE EXPERIENCE

➤ 2019–2019) **Conference Chair (Technical Committee)**

International Conference on Mechanical and Renewable Energy (ICMERE 2023)

Department of Mechanical Engineering, Chittagong University of Engineering & Technology (CUET), Chattogram 4349, Bangladesh.

➤ (2020–2022) **Security Advisor**

Chittagong University of Engineering & Technology (CUET), Chattogram 4349, Bangladesh.

➤ (2021–2021) **Member Secretary (Organizing Committee)**

International Conference on Mechanical and Renewable Energy (ICMERE 2021)

Department of Mechanical Engineering, Chittagong University of Engineering & Technology (CUET), Chattogram 4349, Bangladesh.

➤ (2019–2019) **Member Secretary (Technical Committee)**

International Conference on Mechanical and Renewable Energy (ICMERE 2019)

Department of Mechanical Engineering, Chittagong University of Engineering & Technology (CUET), Chattogram 4349, Bangladesh.

➤ (2018–2018) **Member Secretary (Bureau of Research Testing and Consultancy (BRTC))**

Department of Mechanical Engineering, Chittagong University of Engineering & Technology (CUET), Chattogram 4349, Bangladesh.

➤ (2008–2011) **Assistant Provost**

Shahid Tarek Huda Hall, Chittagong University of Engineering and Technology (CUET), Chattogram 4349, Bangladesh.

## ACADEMIC QUALIFICATION

➤ (2013–2017) **Doctor of Philosophy (PhD) in Mechanical Engineering**

**Research Area:** Biofuel (Advance Biodiesel)

**Research Topic:** “*An Experimental Study of 2<sup>nd</sup> Generation Biodiesel as an Alternative Fuel for Diesel Engine*”

School of Engineering and Technology, CQUniversity,  
Rockhampton, Queensland 4702, Australia.

➤ (2004–2008) **Master of Science (MSc) in Mechanical Engineering**

**Research Area:** Heat Transfer (Enhancement of Heat Transfer)

**Research Topic:** “*An Experimental Study of Heat Transfer in Turbulent Flow through a Tube with Perforated Rectangular Strip Inserts*”

Bangladesh University of Engineering & Technology (BUET)

Dhaka 1000, Bangladesh.

➤ (1998–2003) **Bachelor of Science (BSc) in Mechanical Engineering**

**Position:** 2<sup>nd</sup> Position

**Research Topic:** “*Design, Fabrication and Performance Test of a Downdraft Gasifier*”.

Chittagong University of Engineering & Technology (CUET)

Chattogram 4349, Bangladesh.

## ACADEMIC HONOURS AND AWARDS

- Achieved the recognition of the “**World’s Top 2% Research Scientist**”, listed by Elsevier and Stanford University, USA, of years 2021, 2022, 2023 & 2024.
- Selected as the “**Best Research Publication Award**” of the year 2019 at the faculty of Mechanical Engineering by the Chittagong University of Engineering & Technology (CUET), Bangladesh.
- International Postgraduate Research Award (IPRA) & Australian Postgraduate Research Award (APA) with scholarship (2013-2015) for PhD program by the Central Queensland (CQ) University, Australia.
- Academic Scholarship for Bachelor of Science (BSc) in Mechanical Engineering (1999 - 2002) by the Chittagong University of Engineering & Technology (CUET), Bangladesh.
- Secondary School Scholarship (1993-1994) for excellent performance by the Bangladesh Government.

## SKILLS AND TECHNICAL KNOWLEDGE

- **Design Software:** AutoCAD & Solid Works.
- **Programming Language:** MATLAB, C, C++
- **Document Preparation System:** LaTeX, MS Office
- **Operating System:** Windows XP, Windows 7, 8, 10, and 11, etc.

## PROFESSIONAL MEMBERSHIPS

- **Member**, Institution of Engineers Bangladesh, IEB (M23077)
- **Member**, Bangladesh Society of Mechanical Engineers, BSME (M08019 ME).

## RESEARCH PUBLICATION LISTS

### Journal Articles

1. A. G. M. B. Mustayen, M. G. Rasul, Xiaolin Wang, **M. M. K. Bhuiya**, Michael Negnevitsky and James Hamilton, Theoretical and Experimental Analysis of Engine Performance and Emissions Fuelled with Jojoba Biodiesel, *Energies*, an MDPI open-access journal, 15 (2022) 6282 (IF: 3.25).
2. Tamal Chowdhury, Hemal Chowdhury, Samiul Hasan, Md Salman Rahman, **M. M. K. Bhuiya**, Piyal Chowdhury, Design of a stand-alone energy hybrid system for a makeshift health care center: A case study, *Journal of Building Engineering*, 40 (2021) 102346 (IF: 6.7).
3. Hemal Chowdhury, Tamal Chowdhury, Nazia Hossain, Piyal Chowdhury, Jefferson dos Santos Mascarenhas, **Muhammad Mostafa Kamal Bhuiya**, Energy, emission, profitability, and

sustainability analyses of a grid-connected solar power plant proposed in airport sites of Bangladesh: a case study, *Environmental Science and Pollution Research* 28 (2021) 61369–61379 (IF: 5.8).

4. Shakhawat Hossain, Nass Toufiq Tayeb, Farzana Islam, Mosab Kaseem, P.D.H. Bui, **M. M. K. Bhuiya**, Muhammad Aslam and Kwang-Yong Kim, Enhancement of Mixing Performance of Two-Layer Crossing Micromixer through Surrogate-Based Optimization, *Micromachines, an MDPI open-access journal*, 12 (2021) 211 (IF: 3.0).
5. **M. M. K Bhuiya**, M Rasul, M Khan, N Ashwath, Biodiesel production and characterisation of poppy (*Papaver somniferum* L.) seed oil methyl ester as a source of 2<sup>nd</sup> generation biodiesel feedstock, *Industrial Crops and Products*, 152 (2020), 112493 (IF: 5.9).
6. **M. M. K Bhuiya**, MM Roshid, MMM Talukder, MG Rasul, P Das, Influence of perforated triple twisted tape on thermal performance characteristics of a tube heat exchanger, *Applied Thermal Engineering*, 167 (2020), 114769 (IF: 6.4).
7. **M. M. K Bhuiya**, M Rasul, M Khan, N Ashwath, M Mofijur, Comparison of oil extraction between screw press and solvent (n-hexane) extraction technique from beauty leaf (*Calophyllum inophyllum* L.) feedstock, *Industrial Crops and Products*, 144 (2020), 112024 (IF: 5.9).
8. Md Mofijur Rahman, Mohammad G. Rasul, Md Masud Khan, Md Abul Kalam Azad, **Muhammad M. Bhuiya**, A mini-review on the cold flow properties of biodiesel and its blends, *Frontiers in Energy Research - Bioenergy and Biofuels section Bioenergy and Biofuels* 8 (2020) 598651 (Doi: 10.3389/fenrg.2020.598651) (IF: 3.4).
9. M S RABBI, TANSIRUL ISLAM & **M M K BHUIYA**, Jute fiber-reinforced polymer composites: a comprehensive review, *International Journal of Mechanical and Production Engineering Research and Development (IJMPERD)*, 10 (3) (2020), 3053–3072.
10. **M. Bhuiya**, M Rasul, M Khan, N Ashwath, Performance and emission characteristics of a compression ignition (CI) engine operated with beauty leaf biodiesel, *Energy Procedia*, 160 (2019), 641-647 (IF: 1.15).
11. M Tusar, K Ahmed, **M Bhuiya**, P Bhowmik, M Rasul, N Ashwath, CFD study of heat transfer enhancement and fluid flow characteristics of laminar flow through tube with helical screw tape insert, *Energy Procedia*, 160 (2019), 699-706 (IF: 1.15).
12. **M. Bhuiya**, M Rasul, M Khan, N Ashwath, Performance and emission characteristics of binary mixture of poppy and waste cooking biodiesel, *Energy Procedia*, 110 (2017), 523-528 (IF: 1.15).
13. **M. M. K. Bhuiya**, M. G. Rasul, M. M. K. Khan, A. K. Azad, Perspectives on 2<sup>nd</sup> generation biodiesel as a sustainable fuel - Part: 1 Feedstocks, oil extraction techniques and conversion technologies, *Renewable & Sustainable Energy Reviews*, 55 (2016) 1109-1128 (IF: 16.799).
14. **M. M. K. Bhuiya**, M. G. Rasul, M. M. K. Khan, A. K. Azad, Perspectives on 2<sup>nd</sup> generation biodiesel as a sustainable fuel - Part: 2 Properties, performance and emission characteristics, *Renewable & Sustainable Energy Reviews*, 55 (2016) 1129-1146 (IF: 16.799).
15. **M. M. K. Bhuiya**, A. K. Azad, M. S.U. Chowdhury, M. Saha, Heat transfer augmentation in a circular tube with perforated double counter twisted tape inserts, *International Communications in Heat & Mass Transfer*, 74 (2016) 18-26 (IF: 7.0).
16. **M. M. K. Bhuiya**, M. S.U. Chowdhury, J. U. Ahamed, A. K. Azad, Heat transfer performance evaluation and prediction of correlation for turbulent flow through a tube with helical tape inserts at higher Reynolds number, *Heat & Mass Transfer*, 52(6) (2016) 1219-1230 (IF: 5.2).
17. M. Mofijur, M. G. Rasul, J. Hyde, A. K. Azad, R. Mamat, **M. M. K. Bhuiya**, Role of biofuel and their binary (diesel–biodiesel) and ternary (ethanol–biodiesel–diesel) blends on internal combustion engines emission reduction, *Renewable & Sustainable Energy Reviews*, 53 (2016) 265-278 (IF: 16.799).

18. A. K. Azad, M.G. Rasul, M. M. K. Khan, Subhash C. Sharma, M. Mofijur, **M. M. K. Bhuiya**, (2016), Prospects, feedstocks and challenges of biodiesel production from beauty leaf oil and castor oil: A nonedible oil sources in Australia, *Renewable & Sustainable Energy Reviews*, 61 (2016) 302–318 (IF: 16.799).
19. A. K. Azad, M. G. Rasul, M. M. K. Khan, S. Sharma, **M. M. K. Bhuiya**, Recent development of biodiesel combustion strategies and modelling for compression ignition engines, *Renewable & Sustainable Energy Reviews*, 56 (2016) 1068-1086 (IF: 16.799).
20. Abul Kalam Azad, Mohammad G. Rasul, M. Masud K. Khan, Subhash C. Sharma, **M. M. K. Bhuiya**, M. Mofijur, A review on socio-economic aspects of sustainable biofuels, *International Journal of Global Warming*, 10 (1-3) (2016) 32-54 (IF: 1.0).
21. Mohammad Mamunur Rahman, Manabendra Saha, **Muhammad Mostafa Kamal Bhuiya**, Auvi Biswas, Md. Hasibul Alam, Chowdhury Md. Feroz, Heat transfer characteristics of a parallel miniature heat pipe system, *International Communications in Heat & Mass Transfer*, 79 (2016) 1–8 (IF: 7.0).
22. M. Mofijur, M.G. Rasul, J. Hyde, **M. M. K. Bhuiya**, Role of Biofuels on IC Engines Emission Reduction, *Energy Procedia*, 75 (2016) 886-892 (IF: 1.15).
23. **M. M. K. Bhuiya**, M. G. Rasul, M. M. K. Khan, A. K. Azad, M. Mofijur, Optimisation of Oil Extraction Process from Australian Native Beauty Leaf Seed (*Calophyllum inophyllum*), *Energy Procedia*, 75 (2015) 56-61 (IF: 1.15).
24. A. K. Azad, M. G. Rasul, M. Mofijur, **M. M. K. Bhuiya**, Sukanta Kumar Mondal and M. Kafilur Sattar, Energy and Waste Management for Petroleum Refining Effluents: A Case Study in Bangladesh, *International Journal of Automotive and Mechanical Engineering (IJAME)*, 11 (2015) 2170-2187.
25. **M. M. K. Bhuiya**, M. G. Rasul, M. M. K. Khan, A. K. Azad, M. Mofijur, Second generation biodiesel: potential alternative to-edible oil-derived biodiesel, *Energy Procedia*, 61 (2014)1969-1972 (IF: 1.15).
26. **M. M. K. Bhuiya**, M. S. U. Chowdhury, M. Shahabuddin, Performance assessment in a heat exchanger tube fitted with double counter twisted tape inserts, *International Communications in Heat & Mass Transfer*, 50 (2014) 25-33 (IF: 7.0).
27. **M. M. K. Bhuiya**, J. U. Ahamed, M. A. R. Sarkar, B. Salam, A. S. M. Sayem, Performance of turbulent flow heat transfer through a tube with perforated strip inserts, *Heat Transfer Engineering*, 35(1) (2014) 43-52 (IF: 2.3).
28. Umme Mumtahina, **M. M. K. Bhuiya**, A. S. M. Sayem, A. K. Azad, N. Mohammad, Design and performance of a multidimensional automatic solar tracking system, *International Journal of Energy & Technology*, 6 (11) (2014) 1 –6.
29. A. K. Azad, M. G. Rasul, M. M. K. Khan, Anis Omri, **M. M. K. Bhuiya**, M. A. Hazrat Ali, Modelling of renewable energy economy in Australia, *Energy Procedia*, 61 (2014) 1902-1906 (IF: 1.15).
30. J. Ward, M.G., Rasul, **M. M. K. Bhuiya**, Energy recovery from biomass by fast pyrolysis, *Procedia Engineering*, 90 (2014) 669-674.
31. C. A., Harch, M. G., Rasul, N. M. S, Hassan, **M. M. K., Bhuiya**, Modelling of engine Performance fuelled with second generation biodiesel, *Procedia Engineering*, 90 (2014) 459-465.
32. M. A. Hazrat, M. G. Rasul, M. M. K. Khan, A. K. Azad, **M. M. K. Bhuiya**, Utilization of polymer wastes as transport fuel resources a recent development, *Energy Procedia*, 61 (2014) 1681-1685 (IF: 1.15).

33. **M. M. K. Bhuiya**, M. S. U. Chowdhury, M. Saha, M. T. Islam, Heat transfer and friction factor characteristics in turbulent flow through a tube fitted with perforated twisted tape inserts, *International Communications in Heat & Mass Transfer*, 46 (2013) 49-57 (IF: 7.0).
34. **M. M. K. Bhuiya**, M. S. U. Chowdhury, M. Shahabuddin, M. Saha, L.A. Memon, Thermal characteristics in a heat exchanger tube fitted with triple twisted tape inserts, *International Communications in Heat & Mass Transfer*, 48 (2013) 124-132 (IF: 7.0).
35. M. Shahabuddin, H.H. Masjuki, M.A. Kalam, **M.M.K. Bhuiya**, H. Mehat, Comparative tribological investigation of bio-lubricant formulated from a non-edible oil source (Jatropha oil), *Industrial Crops and Products*, 47 (2013) 323– 330 (IF: 5.9).
36. Bodius Salam, Sumana Biswas, Shuvra Saha, **Muhammad Mostafa K Bhuiya**, Heat transfer enhancement in a tube using rectangular-cut twisted tape insert, *Procedia Engineering*, 56 (2013) 96 – 103.
37. **M. M. K. Bhuiya**, J. U. Ahamed, M. S. U. Chowdhury, M. A. R. Sarkar, B. Salam, R. Saidur, H. H. Masjuki, M. A. Kalam, Heat transfer enhancement and development of correlation for turbulent flow through a tube with triple helical tape inserts, *International Communications in Heat and Mass Transfer*, 39 (2012) 94-101 (IF: 7.0).
38. **M. M. K. Bhuiya**, M. S. U. Chowdhury, J. U. Ahamed, M. A. R. Sarkar, M. J. H. Khan, M. A. R. Sarkar, M. A. Kalam, H. H. Masjuki, M. Shahabuddin, Heat transfer performance for turbulent flow through a tube using double helical tape inserts, *International Communications in Heat and Mass Transfer*, 39 (2012) 818-825 (IF: 7.0).
39. **M. M. K. Bhuiya**, M. S. U. Chowdhury, M. Islam, J. U. Ahamed, M. J. H. Khan, M. R. I. Sarker, M. Saha, Heat transfer performance evaluation for turbulent flow through a tube with twisted wire brush inserts, *International Communications in Heat & Mass Transfer*, 39 (2012) 1505–1512 (IF: 7.0).
40. **M. M. K. Bhuiya**, J. U. Ahamed, M. A. R. Sarkar, B. Salam, A. S. M. Sayem, M. A. Kalam, Heat transfer and pressure drop characteristics in turbulent flow through a tube, *Experimental Heat Transfer*, 25 (2012) 301–322 (IF: 3.5).
41. M. Shahabuddin, M.A. Kalam, H.H. Masjuki, **M. M. K. Bhuiya**, M. Mofijur, An experimental investigation into biodiesel stability by means of oxidation and property determination, *Energy*, 44 (2012) 616- 622 (IF: 9.0).
42. **M. M. K. Bhuiya**, J. U. Ahamed, M. M. Uddin, A. Hakim, M. R. T. Hossain, Performance of a multidimensional automatic solar tracking system, *Engineering e-Transaction* (ISSN 1823-6379), 6 (1) (2011) 55-60.
43. A. S. M. Sayem, J. U. Ahamed, **M. M. K. Bhuiya**, Prasanjit Das, Analysis of combustion product for modified high-speed diesel combustion model of PCI engine for after treatment System, *International Journal of Mechanical & Materials Engineering (IJMME)*, 6(1) (2011) 120-125.
44. M. M. Billah, M. M. Rahman, J. U. Ahamed, **M. M. K. Bhuiya**, MHD Mixed convection heat transfer enhancement in a lid-driven enclosure having a heat-generating body: aspect ratio and Prandtl number effect, *International Journal of Energy & Technology*, 3 (13) (2011) 1–8.
45. M. S. U. Chowdhury, J. U. Ahamed, P. M. O. Faruque, **M. M. K. Bhuiya**, Computational study of supersonic flow through a converging diverging nozzle, *Engineering e-Transaction* (ISSN 1823-6379), 6(1) (2011) 37- 42.
46. M. Ali1, J.U. Ahamed, M. A. Alim and **M. M. K. Bhuiya**, A Concurrent Application Of NPV, IRR, MIRR, And Dynamic Programming Model For Finding Out The Replacement Period Of Public Buses, *Engineering e-Transaction* (ISSN 1823-6379), 6(2) (2011) 81-89.

47. J. U. Ahamed, **M. M. K. Bhuiya**, R. Saidur, H. H. Masjuki, M. A. R. Sarkar, A. S. M. Sayem, M. Islam, Forced convection heat transfer performance of porous twisted tape insert, *Engineering e-Transaction* (ISSN 1823-6379), 5(2) (2010) 67-79.
48. M. R. T. Hossain, **M. M. K. Bhuiya**, T. H. Bhuiyan, S. Bhowmik, J. U. Ahamed, Microcontroller based traffic rules violation monitoring and reporting system using wireless communication, *Engineering e-Transaction* (ISSN 1823-6379), 5(2) (2010) 117-121.
49. **M. M. K. Bhuiya**, M. A. Islam, S. C. Banik, A. Gaffer, M. R. T. Hossain, A. S. M. Sayem, Home appliances control system by cell phone, *Mechanical Engineering Research Journal* (ISSN 1990-5491), 7 (2010) 77-80.
50. S. Biswas, B. Salam, M. Islam and **M. M. K. Bhuiya**, Effect of adjacent tubes on pressure distributions around a horizontal tube, *Mechanical Engineering Research Journal* (ISSN 1990-5491), 7 (2010) 3-11.
51. A. S. M. Sayem, Prasanjit Das, **M. M. Kamal Bhuiya** and M. T. Islam, Investigate the effect of high speed on engine performance using high- speed combustion model for PCI engine, *Mechanical Engineering Research Journal* (ISSN 1990-5491), 7 (2010) 54-62.
52. M. M. Uddin, **M. M. K. Bhuiya**, M. T. Islam and M. S. Uddin, Design and comparative study of thermoelectric refrigeration system, *Mechanical Engineering Research Journal* (ISSN 1990-5491), 6 (2008).

#### Conferences/ Proceedings

1. Arnab Dutta and Muhammad Mostafa Kamal Bhuiya, Pyrolysis of polypropylene using infrared heat source and characterization of the pyro-oil, *7<sup>th</sup> International Conference on Mechanical Engineering and Renewable Energy 2023 (ICMERE 2023)*, Paper ID: 58, Chattogram, Bangladesh.
2. Md. Sahab Hossain Anik, Md. Shariful Islam, Jahid Hasan, Md. Sherazul Islam Murad, **Muhammad Mostafa Kamal Bhuiya**, Optimized production of biodiesel from karanja oil, 4<sup>th</sup> International Conference on “Physics for Sustainable Development and Technology” 2022, (ICPSDT) 22-23 January 2022, Chattogram, Bangladesh.
3. Abir Saha, Jamal Uddin Ahamed, Ahmad Abdullah Mujahid and **Muhammad Mostafa Kamal Bhuiya**, Numerical investigation on the thermal performance of a tube with twisted tapes, perforated twisted tapes, rectangular-cut perforated twisted tapes and v-cut perforated twisted tapes: a comparative study, *6<sup>th</sup> International Conference on Mechanical Engineering and Renewable Energy 2021 (ICMERE 2021)*, Paper ID: 55, Chattogram, Bangladesh.
4. Jamil Uddin Murad and **Muhammad Mostafa Kamal Bhuiya**, Design and fabrication of an automatic braking system, *6<sup>th</sup> International Conference on Mechanical Engineering and Renewable Energy 2021 (ICMERE 2021)*, Paper ID: 59, Chattogram, Bangladesh.
5. Dadul Shahriar Sagor and **Muhammad Mostafa Kamal Bhuiya**, Optimized production of biodiesel from arjun oil, *6<sup>th</sup> International Conference on Mechanical Engineering and Renewable Energy 2021 (ICMERE 2021)*, Paper ID: 72, Chattogram, Bangladesh.
6. Rahiqul Islam Efaz, **Muhammad Mostafa Kamal Bhuiya**, Jamil Uddin Murad and Saikat Pal, Biodiesel production from non-edible tung (*vernica fordii*) seed oil, *6<sup>th</sup> International Conference on Mechanical Engineering and Renewable Energy 2021 (ICMERE 2021)*, Paper ID: 131, Chattogram, Bangladesh.
7. Farzana Islam, Bui Duc Hong Phuc, Muhammad Tabish Niaz, **Muhammad Mostafa Kamal Bhuiya** and Shakhawat Hossain, Numerical and experimental analysis of fluid flow and mixing investigation on overlapping serpentine micromixer, *5<sup>th</sup> International Conference on Mechanical*

- Engineering and Renewable Energy 2019 (ICMERE 2019)*, Paper ID: 161, Chattogram, Bangladesh.
8. Ahsan Habib, **Muhammad Mostafa Kamal Bhuiya**, Bijoy Mallick, Md. Fahel, Bin Noor, Sanjoy Halder, Production of biodiesel from non-edible neem oil, *5<sup>th</sup> International Conference on Mechanical Engineering and Renewable Energy 2019 (ICMERE 2019)*, Paper ID: 166, Chattogram, Bangladesh.
  9. Ahsan Habib, **Muhammad Mostafa Kamal Bhuiya**, Md. Fahel Bin Noor, Bijoy Mallick, Biodiesel production from castor seed oil as an alternative fuel for the compression ignition (CI) engine, *5<sup>th</sup> International Conference on Mechanical Engineering and Renewable Energy 2019 (ICMERE 2019)*, Paper ID: 186, Chattogram, Bangladesh.
  10. Zahid Parvez, **Muhammad Mostafa Kamal Bhuiya**, Bodius Salam, Augmentation of heat transfer using coiled perforated twisted tape insert, *5<sup>th</sup> International Conference on Mechanical Engineering and Renewable Energy 2019 (ICMERE 2019)*, Paper ID: 187, Chattogram, Bangladesh.
  11. Md. Omar Faruque, **Muhammad Mostafa Kamal Bhuiya**, Salman Ahmed, Fahad Munshe, Design and fabrication of an automatic solar panel cleaning system, *5<sup>th</sup> International Conference on Mechanical Engineering and Renewable Energy 2019 (ICMERE 2019)*, Paper ID: 202, Chattogram, Bangladesh.
  12. Deepto Roy, Zahid Parvez, **Muhammad Mostafa Kamal Bhuiya**, Bodius Salam, Md. Maruf Billah, Experimental investigation of heat transfer enhancement with perforated triangular shape twisted tape insert, *5<sup>th</sup> International Conference on Mechanical Engineering and Renewable Energy 2019 (ICMERE 2019)*, Paper ID: 223, Chattogram, Bangladesh.
  13. Mohammad Anwar, Mohammad G. Rasul, Nanjappa Ashwath, **Muhammad M. K. Bhuiya**, Ternary or binary blend? A case study using papaya seed oil biodiesel, *AIP Conference Proceedings 2324 (1)*, 050010 (2021).
  14. AH Limon, **M Bhuiya**, M Rahman, M Islam, Cleaning of accumulated dust particle of a flat plate solar collector, *5<sup>th</sup> International Conference on Mechanical, Industrial and Energy Engineering 2018 (ICMIEE 2018)*, Paper ID: ICMIEE18-326, Khulna, Bangladesh, 2018.
  15. MR Islam, **M. M. K Bhuiya**, B Das, M Rahman, AH Limon, Pyrolysis of Sawdust for Bio-Oil Production using Infrared Heat Source, *5<sup>th</sup> International Conference on Mechanical, Industrial and Energy Engineering 2018 (ICMIEE 2018)*, Paper ID: ICMIEE18-325, Khulna, Bangladesh, 2018.
  16. **M. M. K. Bhuiya**, M. G. Rasul, M. M. K. Khan, N. Ashwath, Comparison of oil refining and biodiesel production process between screw press and n-hexane techniques from beauty leaf feedstock, *AIP Conference Proceedings 1754 (1)*, 060016 (2016).
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Yours truly



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