

Sr. No.	Impact Factor	Paper Detail
Year 2021		
1.	3.4	Riaz, F., Yam, F. Z., Qyyum, M. A., Shahzad, M. W., Farooq, M., Lee, P. S., & Lee, M. (2021). Direct Analytical Modeling for Optimal, On-Design Performance of Ejector for Simulating Heat-Driven Systems. <i>Energies</i> , 14(10), 2819. https://doi.org/10.3390/en14102819
2.	8.9	M. Kashif, M. B. Awan, S. Nawaz, M. Amjad, B. Talib, Farooq, M. , A. S. Nizami, M. Rehan, Untapped renewable energy potential of crop residues in Pakistan: Challenges and future directions, <i>Journal of Environmental Management</i> , Volume 256 (2020). https://doi.org/10.1016/j.jenvman.2019.109924
3.	3.8	Shahzad, K., Sultan, M., Bilal, M., Ashraf, H., Farooq, M., Miyazaki, T., ... & Hussain, M. I. (2021). Experiments on energy-efficient evaporative cooling systems for poultry farm application in Multan (Pakistan). <i>Sustainability</i> , 13(5), 2836. https://doi.org/10.3390/su13052836
4.	6.8	Asim, M., Azhar, M., Moenuddin, G., & Farooq, M. (2021). Correcting solar radiation from reanalysis and analysis datasets with systematic and seasonal variations. <i>Case Studies in Thermal Engineering</i> , 25, 100933. https://doi.org/10.1016/j.csite.2021.100933
5.	3.2	Zain, M., Amjad, M., Farooq, M., Anwar, Z., Shoukat, R., Bandarra Filho, E. P., & Du, X. (2021). Performance investigation of a solar thermal collector based on nanostructured energy materials. <i>Frontiers in Materials</i> , 7, 617199. https://doi.org/10.3389/fmats.2020.617199
6.	3.4	Ashraf, W. M., Uddin, G. M., Farooq, M. , Riaz, F., Ahmad, H. A., Kamal, A. H., ... & Krzywanski, J. (2021). Construction of operational data-driven power curve of a generator by industry 4.0 data analytics. <i>Energies</i> , 14(5), 1227. https://doi.org/10.3390/en14051227
7.	4.2	Wang, T., Yu, W., Liu, F., Fang, Farooq, M. , M., & Luo, Z. (2016). Enhanced CO ₂ Absorption and Desorption by Monoethanolamine (MEA)-Based Nanoparticle Suspensions. <i>Industrial & Engineering Chemistry Research</i> , 55(28), p.7830-7838. https://doi.org/10.1021/acs.iecr.6b00358
8.	7.0	Riaz, N., Sultan, M., Miyazaki, T., Shahzad, M. W., Farooq, M. , Sajjad, U., & Niaz, Y. (2021). A review of recent advances in adsorption desalination technologies. <i>International Communications in Heat and Mass Transfer</i> , 128, 105594. https://doi.org/10.1016/j.icheatmasstransfer.2021.105594
9.	3.429	Abam, F., Diemuodeke, O.E., Ekwe, E., Alghassab, M., Samuel, O.D., Khan, Z.A., Imran, M. and M. Farooq , 2020. Exergoeconomic and Environmental Modeling of Integrated Polygeneration Power Plant with Biomass-Based Syngas Supplemental Firing. <i>Energies</i> , 13(22), p.6018. https://doi.org/10.3390/en13226018
10.	5.2	Siddiqi, M. H., Liu, X. M., Hussain, M. A., Qureshi, T., Waqas, M., Farooq, M. , ... & Nawaz, S. (2021). Evolution of kinetic and hydrothermal study of refused derived fuels: Thermo-gravimetric analysis. <i>Energy Reports</i> , 7, 1757-1764. https://doi.org/10.1016/j.egyr.2021.03.010
11.	2.7	Soudagar, M.E.M., Khan, H.M., Khan, T.Y., Razzaq, L., Asif, T., Mujtaba, M.A., Hussain, A., Farooq, M. , Ahmed, W., Shahapurkar, K. and Alwi, A., 2021. Experimental analysis of engine performance and exhaust pollutant on a single-cylinder diesel engine operated using moringa oleifera biodiesel. <i>Applied Sciences</i> , 11(15), p.7071. https://doi.org/10.3390/app11157071
12.	3.9	Khan, M.U., Ahmad, M., Sultan, M., Sohoo, I., Ghimire, P.C., Zahid, A., Sarwar, A., Farooq, M. , Sajjad, U., Abdeshahian, P. and Yousaf, M., 2021. Biogas production potential from livestock manure in Pakistan. <i>Sustainability</i> , 13(12), p.6751. https://doi.org/10.3390/su13126751
13.	7.4	Fayaz, H., M. A. Mujtaba, Manzoore Elahi M. Soudagar, L. Razzaq, Saad Nawaz, Muhammad Ahsan Nawaz, M. Farooq et al. "Collective effect of ternary nano fuel blends on the diesel engine performance and emissions characteristics." <i>Fuel</i> 293 (2021): 120420. https://doi.org/10.1016/j.fuel.2021.120420
14.	2.1	Hassan, Z. U., Usman, M., Asim, M., Kazim, A. H., Farooq, M. , Umair, M., ... & Asim, S. S. (2021). Use of diesel and emulsified diesel in CI engine: A comparative analysis of engine

		characteristics. <i>Science Progress</i> , 104(2), 00368504211020930. https://doi.org/10.1177/00368504211020930
15.	8.0	Mumtaz, Hamza, M. Farhan, M. Amjad, Fahid Riaz, Ali H. Kazim, M. Sultan, M. Farooq et al. "Biomass waste utilization for adsorbent preparation in CO2 capture and sustainable environment applications." <i>Sustainable Energy Technologies and Assessments</i> 46 (2021): 101288. https://doi.org/10.1016/j.seta.2021.101288
16.	7.2	Khan, M. B., Kazim, A. H., Farooq, M. , Javed, K., Shabbir, A., Zahid, R., ... & Atabani, A. E. (2021). Impact of HHO gas enrichment and high purity biodiesel on the performance of a 315 cc diesel engine. <i>International Journal of Hydrogen Energy</i> , 46(37), 19633-19644. https://doi.org/10.1016/j.ijhydene.2021.03.112
17.	6.0	Mehdi, R., Raza, N., Naqvi, S. R., Khoja, A. H., Mehran, M. T., Farooq, M. , & Tran, K. Q. (2021). A comparative assessment of solid fuel pellets production from torrefied agro-residues and their blends. <i>Journal of Analytical and Applied Pyrolysis</i> , 156, 105125. https://doi.org/10.1016/j.jaap.2021.105125
18.	6.8	Mujtaba, M.A., Kalam, M.A., Masjuki, H.H., Soudagar, M.E.M., Khan, H.M., Fayaz, H., Farooq, M. , Gul, M., Ahmed, W., Ahmad, M. and Munir, M., 2021. Effect of palm-sesame biodiesel fuels with alcoholic and nanoparticle additives on tribological characteristics of lubricating oil by four ball tribo-tester. <i>Alexandria Engineering Journal</i> , 60(5), pp.4537-4546. https://doi.org/10.1016/j.aej.2021.03.017
19.	3.2	Ashraf, H., Sultan, M., Shamshiri, R. R., Abbas, F., Farooq, M. , Sajjad, U., ... & Niazi, B. M. (2021). Dynamic evaluation of desiccant dehumidification evaporative cooling options for greenhouse air-conditioning application in multan (Pakistan). <i>Energies</i> , 14(4), 1097. https://doi.org/10.3390/en14041097
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22.	8.634	Mujtaba, M. A. , M. A. Kalam, H. H. Masjuki, Luqman Razzaq, Haris Mehmood Khan, Manzoore Elahi M. Soudagar, M. Gul et al. "Development of empirical correlations for density and viscosity estimation of ternary biodiesel blends." <i>Renewable Energy</i> 179 (2021): 1447-1457.
23.	3.252	Khan, Haris Mahmood, Tanveer Iqbal, M. A. Mujtaba , Manzoore Elahi M. Soudagar, Ibhram Veza, and I. M. Fattah. "Microwave Assisted Biodiesel Production Using Heterogeneous Catalysts." <i>Energies</i> 14, no. 23 (2021): 8135.
24.	4.501	Khan, Haris Mahmood, Tanveer Iqbal, Saima Yasin, Chaudhry Haider Ali, Muhammad Mujtaba Abbas , Muhammad Asif Jamil, Abrar Hussain, Manzoore Elahi M Soudagar, and Muhammad Muhitir Rahman. "Application of Agricultural Waste as Heterogeneous Catalysts for Biodiesel Production." <i>Catalysts</i> 11, no. 10 (2021): 1215.
25.	2.586	Ranganatha Swamy, L., N. R. Banapurmath, T. K. Chandrashekar, Manzoore Elahi M. Soudagar, M. Gul, Nik-Nazri Nik-Ghazali, M. A. Mujtaba et al. "Effect of injection timing and duration on the performance of diesel engine fueled with port injection of oxygenated fuels." <i>Chemical Engineering Communications</i> (2021): 1-13.
26.	16.799	Ahmed, Waqar, S. N. Kazi, Z. Z. Chowdhury, Mohd Rafie Bin Johan, Shahid Mehmood, Manzoore Elahi M. Soudagar, M. A. Mujtaba , M. Gul, and Muhammad Shakeel Ahmad. "Heat transfer growth of sonochemically synthesized novel mixed metal oxide ZnO+ Al2O3+ TiO2/DW based ternary hybrid nanofluids in a square flow conduit." <i>Renewable and Sustainable Energy Reviews</i> 145 (2021): 111025.
27.	6.626	Atique, Muhammad Numan, S. Imran, Luqman Razzaq, M. A. Mujtaba , Saad Nawaz, M. A. Kalam, Manzoore Elahi M. Soudagar, Abrar Hussain, Ibhram Veza, and Attique Arshad. "Hydraulic characterization of Diesel, B50 and B100 using momentum flux." <i>Alexandria Engineering Journal</i> (2021).

28.	6.626	Razzaq, Luqman, M. A. Mujtaba , M. A. Shahbaz, Saad Nawaz, Haris Mahmood Khan, Abrar Hussain, Usama Ishtiaq et al. "Effect of biodiesel-dimethyl carbonate blends on engine performance, combustion and emission characteristics." <i>Alexandria Engineering Journal</i> (2021).
29.	1.442	Gul, Mustabshirha, Md Abul Kalam, Nurin Wahidah Mohd Zulkifli, Masjuki Hj Hassan, Md Mujtaba Abbas , Sumra Yousuf, Omar Sabah Al-Dahiree, Md Kamaleldin Gaffar Abbas, Waqar Ahmed, and Shahab Imran. "Enhancing AW/EP tribological characteristics of biolubricant synthesized from chemically modified cotton methyl-esters by using nanoparticle as additives." <i>Industrial Lubrication and Tribology</i> (2021).
30.	11.072	Yaqoob, Haseeb, Yew Heng Teoh, Zia Ud Din, Noor Us Saba, Muhammad Ahmad Jamil, M. A. Mujtaba , and Asad Abid. "The potential of sustainable biogas production from biomass waste for power generation in Pakistan." <i>Journal of Cleaner Production</i> (2021): 127250.
31.	5.477	Wategave, S. P., N. R. Banapurmath, M. S. Sawant, Manzoore Elahi M. Soudagar, M. A. Mujtaba , Asif Afzal, J. Sadhik Basha et al. "Clean combustion and emissions strategy using reactivity-controlled compression ignition (RCCI) mode engine powered with CNG-Karanja biodiesel." <i>Journal of the Taiwan Institute of Chemical Engineers</i> (2021).
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33.	3.252	Banapurmath, N. R., T. K. Chandrashekar, Manzoore Elahi M. Soudagar, Ali E. Anqi, M. A. Mujtaba , Marjan Goodarzi, Ashraf Elfakhany, Md Irfanul Haque Siddiqui, and Masood Ashraf Ali. "Effect of parameters behavior of simarouba methyl ester operated diesel engine." <i>Energies</i> 14, no. 16 (2021): 4973.
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36.	2.902	Bala Prasad, Katuru, Vallapudi Dhana Raju, Areef Ahamad Shaik, Radha Krishna Gopidesi, Mule Bala Satya Sreevara Reddy, Manzoore Elahi M. Soudagar, and Muhammad Mujtaba abbas . "Impact of injection timings and exhaust gas recirculation rates on the characteristics of diesel engine operated with neat tamarind biodiesel." <i>Energy Sources, Part A: Recovery, Utilization, and Environmental Effects</i> (2021): 1-19.
37.	4.755	Jathar, Laxmikant D., S. Ganesan, Kiran Shahapurkar, Manzoore Elahi M. Soudagar, M. A. Mujtaba , Ali E. Anqi, Muhammad Farooq, Abdulqhadar Khidmatgar, Marjan Goodarzi, and Mohammad Reza Safaei. "Effect of various factors and diverse approaches to enhance the performance of solar stills: a comprehensive review." <i>Journal of Thermal Analysis and Calorimetry</i> (2021): 1-32.
38.	3.352	Yaqoob, Haseeb, Yew Heng Teoh, Farooq Sher, Muhammad Umair Ashraf, Sana Amjad, Muhammad Ahmad Jamil, Muhammad Musaddiq Jamil, and M. A. Mujtaba . "Jatropha Curcas biodiesel: a lucrative recipe for Pakistan's energy sector." <i>Processes</i> 9, no. 7 (2021): 1129.
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42.	3.057	Shahapurkar, Kiran, Manzoore Elahi M. Soudagar, Pavan Shahapurkar, Mahantayya Mathapathi, TM Yunus Khan, M. A. Mujtaba , MD Irfan Ali, Kumara Thanaiah, Md Irfanul Haque Siddiqui, and Masood Ashraf Ali. "Effect of crump rubber on the solid particle erosion response of epoxy composites." <i>Journal of Applied Polymer Science</i> 139, no. 2 (2021): 51470.

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45.	4.05	Taqi, Syed Noeman, C. S. Mohan, Bibi Ahmadi Khatoon, Manzoore Elahi M. Soudagar, T. M. Khan, M. A. Mujtaba , Waqar Ahmed, Ashraf Elfakhany, Ravinder Kumar, and Catalin I. Pruncu. "Sustainable adsorption method for the remediation of malachite green dye using nutraceutical industrial fenugreek seed spent." <i>Biomass Conversion and Biorefinery</i> (2021): 1-12.
46.	6.626	Qamar, Adnan, Zahid Anwar, Hassan Ali, Shahid Imran, Rabia Shaukat, and Muhammad Mujtaba Abbas . "Experimental investigation of dispersion stability and thermophysical properties of ZnO/DIW nanofluids for heat transfer applications." <i>Alexandria Engineering Journal</i> 61, no. 5 (2022): 4011-4026.
47.	3.889	Basha, J.S., Jafary, T., Vasudevan, R., Bahadur, J.K., Ajmi, M.A., Neyadi, A.A., Soudagar, M.E.M., Mujtaba, M.A. , Hussain, A., Ahmed, W. and Shahapurkar, K., 2021. Potential of Utilization of Renewable Energy Technologies in Gulf Countries. <i>Sustainability</i> , 13(18), p.10261.
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49.	5.477	Sharif, Hafiz Muhammad Adeel, M. Farooq, I. Hussain, Moazzam Ali, M. A. Mujtaba , M. Sultan, and Bo Yang. "Recent innovations for scaling up microbial fuel cell systems: Significance of physicochemical factors for electrodes and membranes materials." <i>Journal of the Taiwan Institute of Chemical Engineers</i> 129 (2021): 207-226.
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51.	4.967	Shahapurkar, K., Chenrayan, V., Tesfamariam, B.B., Soudagar, M.E.M., Hossain, N., A Rajhi, A., Alamri, S., Alarifi, I.M., Shahapurkar, P., Mujtaba, M.A. and Kiran, M.C., 2021. Parametric Analysis of Epoxy/Crumb Rubber Composite by Using Taguchi—GRA Hybrid Technique. <i>Polymers</i> , 13(19), p.3441.
52.	6.267	Yaradoddi, Jayachandra S., Nagaraj R. Banapurmath, Sharanabasava V. Ganachari, Manzoore Elahi M. Soudagar, Ashok M. Sajjan, Shrinidhi Kamat, M. A. Mujtaba et al. "Bio-based material from fruit waste of orange peel for industrial applications." <i>Journal of Materials Research and Technology</i> (2021).
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55.	7.632	Belkhode, Pramod N., Sagar D. Shelare, Chandrashekhar N. Sakhale, Ravinder Kumar, S. Shanmugan, Manzoore Elahi M. Soudagar, and M. A. Mujtaba . "Performance analysis of roof collector used in the solar updraft tower." <i>Sustainable Energy Technologies and Assessments</i> 48 (2021): 101619.
56.	6.626	Arif, Muhammad Naveed, Adeel Waqas, Faaz Ahmed Butt, Mariam Mahmood, Asif Hussain Khoja, Majid Ali, Kafait Ullah, M. A. Mujtaba , and M. A. Kalam. "Techno-economic assessment of solar water heating systems for sustainable tourism in northern Pakistan." <i>Alexandria Engineering Journal</i> (2021).
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61.	7.968	Viannie, Leema Rose, N. R. Banapurmath, Manzoore Elahi M. Soudagar, Anilkumar V. Nandi, Nazia Hossain, Ashwini Shellikeri, Vinita Kaulgud, M. A. Mujtaba , Sher Afghan Khan, and Mohammad Asif. "Electrical and mechanical properties of flexible multiwalled carbon nanotube/poly (dimethylsiloxane) based nanocomposite sheets." <i>Journal of Environmental Chemical Engineering</i> 9, no. 6 (2021): 106550.
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