

Conference Publications

1. U. Shahid, M. M. Khan and N. Shahid, “Numerical Investigation of the Heat Transfer Rate and Fluid Flow Characteristics of Conventional and Triply Periodic Minimal Surface (TPMS) Based Heat Sinks,” *Engineering Proceedings*, Vol. 75, no. 1. p. 35, 2024.
2. N. Shahid, M. M. Khan, U. Shahid and S. Rasheed, “Fluidic Properties of Diamond and SplitP Structures with Varying Porosity Levels in Tissue Engineering Applications: A Computational Fluid Dynamics Analysis,” *Engineering Proceedings*, Vol. 75, no. 1. p. 39, 2024.
3. L. Hussain and M. M. Khan, “The Influence of Location of Coanda Surface Ribs on Fluidic Oscillator Performance,” *Engineering Proceedings*, Vol. 75, no. 1, p. 3, 2024.
4. M. U. Shahid, M. N. Shahid, and S. Rasheed, “Design and development of a compact plastic shredder for recycling of abs and pla thermoplastics,” in *4th International Conference on Key Enabling Technologies (KEYTECH 2024)*. Atlantis Press, 2024, pp. 294–301.
5. S. Sajid, U. Noor, M. Saqlain, and S. Rasheed, “Engineering a cleaner tomorrow through design and analysis of two stacks medical waste disposal system for health and environmental benefits,” in *4th International Conference on Key Enabling Technologies (KEYTECH 2024)*. Atlantis Press, 2024, pp. 312–321.
6. M. Abubakar, M. Siddique, S. Rasheed, and M. Khan, “Computational fluid dynamics and thermal performance optimization of a shell and tube heat exchanger,” in *4th International Conference on Key Enabling Technologies (KEYTECH 2024)*. Atlantis Press, 2024, pp. 329–337.
7. M. Khan and S. Rasheed, “Design and analysis of solar water purification system for pakistan,” in *AIP Conference Proceedings*, vol. 3125, no. 1. AIP Publishing, 2024.
8. M. N. Shahid, M. U. Shahid, S. Rasheed, and M. Masud, “Topological optimization of energy storage flywheel used in agricultural wheat thresher machine,” in *AIP Conference Proceedings*, vol. 3125, no. 1. AIP Publishing, 2024.
9. S. Rasheed, W. A. Lughmani, T. Ahmed, D. Brabazon, M. A. Obeidi and I. U. Ahad, “Effects of design parameters on the mechanical performance of 3D printed bone scaffolds using taguchi method,” in *AIP Conference Proceedings*, vol. 3125, no. 1. AIP Publishing, 2024.
10. S. Rasheed, M. Masud, I. Gaidan, M. Haroon and I. U. Ahad, “Design and prototyping of passive exoskeleton for lower limb to assist walking,” in *AIP Conference Proceedings*, vol. 3125, no. 1. AIP Publishing, 2024.
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13. S. Rasheed, M. Masud, I. Gaidan, M. Haroon and I. U. Ahad, “Design and prototyping of passive exoskeleton for lower limb to assist walking,” in *AIP Conference Proceedings*, vol. 3125, no. 1. AIP Publishing, 2024.
14. M. Masud and A. Mubashar, “Investigating stacking configuration and fiber hybridization effects on low-velocity impact behavior in twill woven carbon/flax composites,” in *MATEC Web of Conferences*, vol. 398. EDP Sciences, 2024, p. 01009.
15. N. M. Malik, M. Talha and M. Aaron, “Use of a mathematical model to predict solar still performance at different times of a year,” in *MATEC Web of Conferences*, vol. 398. EDP Sciences, 2024, p. 01003.
16. N. M. Malik, M. A. Zaheer, and M. A. Farooq, “Effect of convergent angle on different flow parameters of a convergent-divergent nozzle,” in *MATEC Web of Conferences*, vol. 398. EDP Sciences, 2024, p. 01001.
17. S. Arshad, R. Ahmad, and M. Ali, “Optimizing rcc slabs using compressive strenght of fiber reinforced composites,” *Technical Journal*, vol. 3, no. ICACEE, pp. 1010–1015, 2024.

18. N. Shahzad, A. Ullah, and M. Ali, "Improving the concrete slab insulation by using pine needle fiber," *Technical Journal*, vol. 3, no. ICACEE, pp. 1016–1021, 2024.
19. Y. Khan and M. Ali, "PNRC sustainable production of manholes covers with fiber concrete," *Technical Journal*, vol. 3, no. ICACEE, pp. 996–1002, 2024.
20. N. Shah and M. Ali, "Exploring pine needle fibers in concrete to mitigate flexural spalling in rigid pavements," *Technical Journal*, vol. 3, no. ICACEE, pp. 415–420, 2024.
21. H. Masaud, M. Ali, and W. Akram, "Experimental exploration of pine needle reinforcement in concrete under compression," *Technical Journal*, vol. 3, no. ICACEE, pp. 213–219, 2024.
22. W. Akram and M. Ali, "Flexural characteristics of pine needle reinforced concrete," *Technical Journal*, vol. 3, no. ICACEE, pp. 200–206, 2024.
23. A. Ullah and M. Ali, "Improving the design and performance of rigid pavements with fiber concrete," *Technical Journal*, vol. 3, no. ICACEE, pp. 194–199, 2024.
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27. Z. Khan, and M. Ali, "Assessment of Living Architecture: Breathing New Life into Health and Housing Solutions," 5th International Conference on Advanced Engineering Technologies. (ICADET), Bayburt University, Turkey. September 25-27. Paper 58. 2024.
28. M. Ali, S. S. S. Gardezi, A. Farooq, M. I. Khattak, and S. S. U. Husnain, "Research article adopting saw dust for insulative block masonry in simple frame structure as energy conservation product," *Technical Journal*, vol. 3, no. ICACEE, pp. 166–175, 2024.
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30. A. Qadeer, U. Manzoor, A. Safdar, and S. S. Safdar Gardezi, "Comparative analysis of energy consumption of multistorey residential building-a case study of using conventional burnt clay bricks vs innovative cellular light weight concrete (CLC) blocks." *Technical Journal of University of Engineering & Technology Taxila*, 2024.
31. M. Saim, M. H. Munir, F. Haider, and S. S. Safdar Gardezi, "Exploring relationship between price escalation components using regression analysis-a case study of pakistan construction sector." *Technical Journal of University of Engineering & Technology Taxila*, 2024.
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33. A. Hassan, S. Khan, H. Bahsir, I. Akram and T. Ahmed "Assessing Urban Flood Vulnerability - Runoff Estimation and GIS-Based Analysis Reference," 5th International Conference on Advanced Engineering Technologies (ICADET).
34. I. Yousaf, and S. Haqqani, "Indigenous Conceptualization of Depression and Anxiety: FGDs with Pakistani Youth and Health Practitioners," 3rd International Social Sciences Congress, 2024.
35. S. Haqqani and I. Yousaf, "Development and Evaluation of Wellness Guide: A Self-Help Indigenous Intervention for Reducing Depression and Anxiety and Enhancing Wellbeing of Pakistani Youth," 3rd International Social Science Congress held on May 17 -19, 2024, Kas, Turkey.
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38. Z. Younas, Women in Pakistan "A Case of Religion and Culture," 11th EMS International Research Conference in Makkah and Madina, Saudia Arabia, 2024.
39. S. S. R. Rizvi, "Beyond Centralization: Unifying IoT and Weighted Federated Learning for Extreme Weather Forecasting," RACIST, Education University of Lahore, Pakistan, 2024.
40. I. Bashir and E. Dilshad, "Analysis of Zygophyllum arabicum compounds against novel drug target of breast cancer," C-BICS 2024.
41. R. Tabassum and E. Dilshad, "Screening of Polyphenols of Hippophae rhamnoides and Cichorium intybus as inhibitors of RhoA protein against liver cancer," C-BICS 2024.
42. J. Yuan, Z. Jing, X. Bai, X. Han, R. -ur- Rehman, L. Jia, Y. P. Wang and W. Geng. "Bifidobacterium pseudonumeratum W112 alleviated depressive and liver injury symptoms induced by chronic unpredictable mild stress via gut-liver-brain axis. 12th International Conference on Biological and Computational Sciences (C-BICS 2024)," November 2nd, 2024.
43. X. Song, L. Xiao. X. Han, R. -ur-Rehman, W. Geng. Y. P. Wang and L. Jia. "Probiotics synergize with dark tea to regulate intestinal flora and alleviate loperamide-induced constipation in mice," 12th International Conference on Biological and Computational Sciences (C-BICS 2024). November 2nd, 2024.
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45. M. Ammar, S. Safdar, S. M. Bakhtiar and Atta Ur Rehman "Prevalence of Genetic Disorders in Pakistan: a Systematic Review," International Conference on Integrative Life Sciences (ICiLS-24) National University of Science and Technology (NUST) Islamabad Pakistan, 25-27 September, 2024.
46. Z. Noor and A. Azhar, M. Ammar and S. M. Bakhtiar. "Mapping Mutations Spectrumof Genetic Disorders in Pakistan for Effective Disease Management," CBICS, CUST November, 2024.
47. M. Ammar, S. Safdar and S. M. Bakhtiar. "High Consanguinity Leading to Genetic Disorders: Pakistan's Greatest Public Health Threat," CBICS, CUST November 2024.
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