

**11**

**Research Publications of Department of Mathematics,  
Riphah International University,  
Gulberg Campus, Lahore**

**For the year 2023-2024**

1. **Suleman M**, Gas P. Analytical, Experimental and Computational Analysis of Heat Released from a Hot Mug of Tea Coupled with Convection, Conduction, and Radiation Thermal Energy Modes, Internal Journal of Heat and Technology, 42(2) (2024) 359-72. I.F = 0.9, ISSN of Journal: 0392-8764, Published Date: 30 April 2024. <https://iijeta.org/journals/ijht/paper/10.18280/ijht.420201>
2. S. Anwar, M. Azeem, **M. K. Jamil**, Topological numbers of fuzzy soft graphs and their applications in globalizing the world by mutual trade, Applied Soft Computing Journal 159 (2024) 111642, <https://doi.org/10.1016/j.asoc.2024.111642>.
3. R. Nawaz, M. **K. Jamil**, M. Azeem, Edge-based metric resolvability of anti-depression molecular structures and its application, Results in Chemistry 7 (2024) 101458. <https://doi.org/10.1016/j.rechem.2024.101458>
4. M. Imran, M. Azeem, **M. K. Jamil**, M. Deveci, Some operations on intuitionistic fuzzy graphs via novel versions of the Sombor index for internet routing, Granular Computing (2024) 9:53, <https://doi.org/10.1007/s41066-024-00467-5>.
5. M. Azeem, S. Anwar, **M. K. Jamil**, M. Saeed, M. Deveci, Topological Numbers of Fuzzy Soft Graphs and Their Application, Information Sciences, (2024), <https://doi.org/10.1016/j.ins.2024.120468>. (I.F.8.1)
6. **M. K. Jamil**, S.Anwar1, M. Azeem, I. Gutman, Intuitionistic fuzzy Sombor indices: Anovel approach for improving the performance of vaccination centers, Communications in Combinatorics and Optimization, (2024), <https://doi.org/10.22049/cco.2023.28767.1709>.
7. M. Imran, M. Azeem, **M. K. Jamil**, M. Deveci, Exploring innovative single-value neutrosophic fuzzy topological graph parameters, Granul. Comput. 9, 37 (2024). <https://doi.org/10.1007/s41066-024-00454-w>. (I.F 5.5)
8. A. N.A. Koam, A. Ahmad, S. Ali, **M. K. Jamil**, M. Azeem, Double edge resolving set and exchange property for nanosheet structure, Heliyon, 10 (2024), <https://doi.org/10.1016/j.heliyon.2024.e26992>. (I.F 4.0)
9. A. S. Alali, R. Ali, **M. K. Jamil**, J. Ali, Gulraiz, Dynamic S-Box Construction Using Mordell Elliptic Curves over Galois Field and Its Applications in Image Encryption, Mathematics, 12 (2024), 587, <https://doi.org/10.3390/math12040587>. (I.F. 2.14)
10. R. N. Bhatti, **M. K. Jamil**, M. Azeem, P. Poojary, Partition Dimension of Generalized Hexagonal Cellular Networks and Its Application, IEEE access, Digital Object Identifier [10.1109/ACCESS.2024.3351728](https://doi.org/10.1109/ACCESS.2024.3351728). (I.F 3.9)
11. J. Ali, M. **K. Jamil**, A. S. Alali, R. Ali, Gulraiz, A medical image encryption scheme based on Mobius transformation and Galois field, (2023), <https://doi.org/10.1016/j.heliyon.2023.e23652>.

12. X. Zhang, M. Waheed, **M. K. Jamil**, U. Saleem, A. Javed, Entropy measures of the metal-organic network via topological descriptors, *Main Group Metal Chemistry* 2023; 46: 20230011.
13. R. Ali, **M. K. Jamil**, A. S. Alali, J. Ali, G. Afzal, A robust S-box design using cyclic groups and image encryption, *IEEE access*(2023), [10.1109/ACCESS.2023.3337443](https://doi.org/10.1109/ACCESS.2023.3337443).
14. S. Anwar, **M. K. Jamil**, A. S. Alali, M. Zegham, A. Javed, Extremal values of the first reformulated Zagreb index for molecular trees with application to octane isomers, *AIMS Mathematics*, 9(1): 289–301, (2023) [http://dx.doi.org/ 10.3934/math.2024017](https://doi.org/10.3934/math.2024017).
15. M. Imran, R. Ismail, M. Azeem, **M. K. Jamil**, E. H. A. Al-Sabri, Sombor Topological Indices for Different Nanostructures,, (2023), <https://doi.org/10.1016/j.heliyon.2023.e20600>.
16. S. Bukhari, **M. K. Jamil**, M. Azeem, Vertex-edge based resolvability parameters of vanadium carbide network with an application, *Molecular Physics*, (2023), <https://doi.org/10.1080/00268976.2023.2260899>.
17. M. Imran, Rashad Ismail, M. Azeem, **M. K. Jamil**, E. H. A. Al-Sabri, Sombor Topological Indices for Different Nanostructures, *Heliyon*, (2023), <https://doi.org/10.1016/j.heliyon.2023.e20600>.
18. M. Noor, **M. K. Jamil**, K. Ullaha, M. Azeem, Energies of T-spherical fuzzy graph based on novel Aczel-Alsina T-norm and T-conorm with their applications in decision making, (2023) DOI:10.3233/JIFS-23108.
19. I. Masmali, M.T.A. Kanwal, **M. K. Jamil**, A. Ahmad, M. Azeem, A. N.A. Koam, COVID antiviral drug structures and their edge metric dimension, *Molecular Phy*, <https://doi.org/10.1080/00268976.2023.2259508>.
20. M. Nazar, M. Azeem, **M. K. Jamil**, Localisation of honeycomb rectangular torus, *Molecular Physics*, (2023), <https://doi.org/10.1080/00268976.2023.2252530>.
21. M.T.A. Kanwal, M. Azeem, **M. K. Jamil**, Note on the finite vertex-based partitioning of supramolecular chain in Dialkyltin, *Molecular Physics*, (2023) <https://doi.org/10.1080/00268976.2023.2254417>.
22. K. Asif, **M. K. Jamil**, H. Karamti, Muhammad Azeem, K. Ullah, Randic energies for T-spherical fuzzy Hamacher graphs and their applications in decision making for business plans, *Computational and Applied Mathematics*(2023) 42:106, <https://doi.org/10.1007/s40314-023-02243-8>.
23. Y. Tang, M. Labba, **M. K. Jamil**, M. Azeem, X. Zhang, Edge valency-based entropies of tetrahedral sheets of clay minerals, *Plos One*, (2023) <https://doi.org/10.1371/journal.pone.0288931>.
24. A. N.A. Koam, S. Ali, A. Ahmad, M. Azeem, **M. K. Jamil**, Resolving set and exchange property in nanotube, *AIMS Mathematics*, (2023) <http://dx.doi.org/10.3934/math.20231035>. (2.739)
25. X. Zhang, U. Saleem, M. Waheed, **M. K. Jamil**, M. Zeeshan, Comparative study of five topological invariants of supramolecular chain of different complexes of N-salicylidene-L-valine, *AIMS Mathematical Bioscience and Engineering*, (2023) <http://dx.doi.org/10.3934/mbe.2023511>. (2.194)
26. Y. Alqahtania, **M. K. Jamil**, H. Alshehria, Ali Ahmad, M. Azeem, Vertex metric resolvability of COVID antiviral drug structures, *Journal of Intelligent & Fuzzy Systems* 44 (2023) 1017–1028. (I.F. 1.737)
27. Q. Huang, M. Labba, M. Azeem, **M. K. Jamil**, R. Luo, Tetrahedral sheets of clay minerals and their edge valency-based entropy measures, *MBE*, 20(5): 8068–8084, (2023). (I.F. 2.194)

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30. S. Bukhari, **M. K. Jamil**, M. Azeem, S. Swaray, Patched Network and Its Vertex-Edge Metric-Based Dimension, [10.1109/ACCESS.2023.3235398](https://doi.org/10.1109/ACCESS.2023.3235398), (2023) (I.F. )
31. M. Azeem, **M. K. Jamil**, Y. Shang, Notes on the Localization of Generalized Hexagonal Cellular Networks, *Mathematics*, (2023), 11, 844., <https://doi.org/10.3390/math11040844>. (I.F 2.592)
32. **Ullah, K.**, Naeem, M., Hussain, A., Waqas, M. and Haleemzai, I., (2023). Evaluation of Electric Motor Cars Based Frank Power Aggregation Operators under Picture Fuzzy Information and a Multi-Attribute Group Decision-Making Process. *IEEE Access*. 11, 67201–67219. [DOI: 10.1109/ACCESS.2023.3285307](https://doi.org/10.1109/ACCESS.2023.3285307) (IF: 3.9) (HJRS Category: X) (Wos: Q2)
33. Khan, M. R., **Ullah, K.**, Karamti, H., Khan, Q., & Mahmood, T. (2023). Multi-attribute group decision-making based on q-rung orthopair fuzzy Aczel–Alsina power aggregation operators. *Engineering Applications of Artificial Intelligence*, 126, 106629. (IF: 8.0) (HJRS Category: W) (Wos: Q1)
34. Hussain, A., **Ullah, K.**, Pamucar, D., Haleemzai, I. and Tatić, D., 2023. Assessment of Solar Panel Using Multiattribute Decision-Making Approach Based on Intuitionistic Fuzzy Aczel Alsina Heronian Mean Operator. *International Journal of Intelligent Systems*, 2023. <https://doi.org/10.1155/2023/6268613>. (IF: 8.993) (HJRS Category: W) (Wos: Q1)
35. Jabeen, K., **Ullah, K.**, Pedrycz, W., Khan, Q., Ali, Z., & Yin, S. (2024). Pythagorean fuzzy aczel-alsina power bonferroni mean operators for multi-attribute decision-making. *Granular Computing*, 9(1), 1-16. (IF: 4.5) (HJRS Category: W)
36. Wang, H., Feng, L., Deveci, M., **Ullah, K.** and Garg, H., (2024). A novel CODAS approach based on Heronian Minkowski distance operator for T-spherical fuzzy multiple attribute group decision-making. *Expert Systems with Applications*, 244, p.122928. (IF: 12.6) (HJRS Category: W) (Wos: Q1)
37. Hussain, A., Ullah, K., Senapati, T. and Moslem, S., 2024. Energy supplier selection by TOPSIS method based on multi-attribute decision-making by using novel idea of complex fuzzy rough information. *Energy Strategy Reviews*, 54, p.101442. (IF: 7.9) (HJRS Category: W) (Wos: Q1)
38. Hussain, A., **Ullah, K.**, Senapati, T. and Moslem, S., (2023). Complex spherical fuzzy Aczel Alsina aggregation operators and their application in assessment of electric cars. *Heliyon*. <https://doi.org/10.1016/j.heliyon.2023.e18100> (IF: 4.00) (HJRS Category: W) (Wos: Q1)
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41. Khan, M. R., **Ullah, K.**, Khan, Q., & Haleemzai, I. (2024). Confidence Levels Measurement of Mobile Phone Selection Using a Multiattribute Decision-Making Approach with Unknown Attribute Weight Information Based on T-Spherical Fuzzy Aggregation Operators. *Discrete Dynamics in Nature and Society*, 2024. (IF: 1.4) (HJRS Category: X) (Wos: Q2)

42. Hussain, A., **Ullah, K.**, Al-Quran, A., & Garg, H. (2023). Some T-spherical fuzzy dombi hamy mean operators and their applications to multi-criteria group decision-making process. *Journal of Intelligent & Fuzzy Systems*, (Preprint), 1-21. **(IF: 2.0) (HJRS Category: X) (Wos: Q3)**
43. Kalsoom, U., **Ullah, K.**, Akram, M., Pamucar, D., Senapati, T., Naeem, M., ... & Moslem, S. (2023). Schweizer–Sklar Power Aggregation Operators Based on Complex Interval-Valued Intuitionistic Fuzzy Information for Multi-attribute Decision-Making. *International Journal of Computational Intelligence Systems*, 16(1), 170. **(IF: 2.9) (HJRS Category: X) (Wos: Q3)**
44. Khan, M. R., **Ullah, K.**, Khan, Q., & Awsar, A. (2023). Some Aczel–Alsina Power Aggregation Operators Based on Complex q-Rung Orthopair Fuzzy Set and Their Application in Multi-Attribute Group Decision-Making. *IEEE Access*. (11), pp.115110 – 115125 **(IF: 3.9) (HJRS Category: W) (Wos: Q2)**
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47. Akram, M., **Ullah, K.**, Ćirović, G. and Pamucar, D., 2023. Algorithm for Energy Resource Selection Using Priority Degree-Based Aggregation Operators with Generalized Orthopair Fuzzy Information and Aczel–Alsina Aggregation Operators. *Energies*, 16(6), p.2816. <https://doi.org/10.3390/en16062816> **(IF: 3.252) (HJRS Category: W) (Wos: Q3)**
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- Weights. *Discrete Dynamics in Nature and Society*, 2024(1), p.4362151. **(IF: 1.4) (HJRS Category: X) (Wos: Q2)**
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  62. Zhang, N., Khan, M.R., **Ullah, K.**, Saad, M. and Yin, S., 2024. Aczel–Alsina T-norm based group decision-making technique for the evaluation of electric cars using generalized orthopair fuzzy aggregation information with unknown weights. *Heliyon*. 10(6). <https://doi.org/10.1016/j.heliyon.2024.e26921>. **(IF: 4.0) (HJRS Category: W) (Wos: Q1)**
  63. Jabeen, K., **Ullah, K.**, Pedrycz, W., Khan, Q., Ali, Z. and Yin, S., 2024. Pythagorean fuzzy aczel-alsina power bonferroni mean operators for multi-attribute decision-making. *Granular Computing*, 9(1), pp.1-16. <https://doi.org/10.1007/s41066-023-00428-4>. **(IF: 5.5) (HJRS Category: X)**
  64. Ma, L., Hussain, A., **Ullah, K.**, Bibi, S. and Yin, S., 2024. Decision Algorithm for q-Rung Orthopair Fuzzy Information Based on Schweizer-Sklar Aggregation Operators With Applications in Agricultural Systems. *IEEE Access*, 12, pp.25762-25778. [10.1109/ACCESS.2024.3359903](https://doi.org/10.1109/ACCESS.2024.3359903). **(IF: 3.9) (HJRS Category: W) (Wos: Q2)**
  65. Ayaz, S., Hussain, A., **Ullah, K.**, Khan, N., Siddique, I., & Younis, J. A. (2023). Evaluation of Cryptocurrency Markets Based on q-Rung Orthopair Fuzzy Hypersoft Frank Approach. *IEEE Access*, 11, 134547-134556. **(IF: 3.9) (HJRS Category: W) (Wos: Q2)**
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  67. Hussain, A., Liu, Y., **Ullah, K.**, Amjad, A., & Awsar, A. (2023). Decision-Making with Unknown Weights for the Performance of Digital Devices in Healthcare Systems Based

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73. Wang, H., Xu, T., Feng, L. and **Ullah, K.**, (2024). An Improved ARAS Approach with T-Spherical Fuzzy Information and Its Application in Multi-attribute Group Decision-Making. *International Journal of Fuzzy Systems*, pp.1-25. <https://doi.org/10.1007/s40815-024-01718-y> **(IF: 4.3) (HJRS Category: W) (Wos: Q2)**
74. Ma, L., Jabeen, K., Karamti, W., **Ullah, K.**, Khan, Q., Garg, H., & Yin, S. (2024). Aczel-Alsina power bonferroni aggregation operators for picture fuzzy information and decision analysis. *Complex & Intelligent Systems*, 1-24. **(IF: 5.8) (HJRS Category: W) (Wos: Q1)**
75. Ali, Z., Mahmood, T., Karamti, H., **Ullah, K.**, Zedam, L., Pamucar, D. and Ahmadi, M., (2023). Investigation of the brain carcinoma based on generalized variation coefficient similarity measures using complex q-rung orthopair fuzzy information. *Soft Computing*, pp.1-30. <https://doi.org/10.1007/s00500-023-08014-1> **(IF: 3.732) (HJRS Category: W) (Wos: Q1)**
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77. Akram, M., Wang, H., Garg, H. and **Ullah, K.**, (2023). Interaction Power Bonferroni Mean Aggregation Operators Based on T-Spherical Fuzzy Information and Their Application in Multi-attribute Decision Making. *International Journal of Fuzzy Systems*, pp.1-19. <https://doi.org/10.1007/s40815-023-01542-w> **(IF: 4.3) (HJRS Category: W) (Wos: Q2)**
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