

List of Publications

Published Work

- [1] Sufyan Asif and M. Khalid Mahmood. *A Useful Encryption of Discrete Graphs on Symmetric Groups*. Journal of Information and Optimization Sciences (to appear) 2025, 1-20.
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Accepted: Jan 29, 2025 (WOS-ESCI).
- [2] Asif Abdur Rehman and M. Khalid Mahmood. *Structures and Metric Dimensions of Divisor Euler Function Graph $G(D(\phi(t)))$* . Advances and Applications in Discrete Mathematics (to appear) 2025, 1-18.
<https://www.pphmj.com/journals/aadm.htm>.
Accepted: December 26, 2024 (WOS-ESCI).
- [3] Sufyan Asif and M. Khalid Mahmood. *Structural properties of the graphs arising from congruences over set of moduli*. JP Journal of Algebra, Number Theory and Applications, 64 (1) 2025, 81-98.
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Published Online: December 14, 2024 (WOS-ESCI).
- [4] Shahbaz Ali, M. Khalid Mahmood and Sobia Ghaffar. *Several topological indices and entropies for certain families of commutative graphs over Quaternion groups*. VFAST Transactions on Mathematics, 12(2) 2024, 32-38.
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Published: Sep 30, 2024 (HEC Recognized Y-Category).
- [5] Sufyan Asif, M. Khalid Mahmood, Amal S. Alali and Abdullah A. Zaagan. *Structures and Applications of Graphs Arising from Congruences over Moduli*. Aims Mathematics, 9 (8) 2024, 21786-21798.
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Published: July 09, 2024 (WOS-SCIE, Impact Factor: 1.8).
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<https://doi.org/10.21015/vtm.v12i1.1756>.
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- [7] Shahbaz Ali, Raúl M. Falcón and M. Khalid Mahmood. *Local fractional metric dimension of rotationally symmetric planar graphs arisen from planar chorded cycles*. Rendiconti di Matematica e delle Sue Applicazioni, 44 (3) 2023, 159-179.
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Published: Feb 07, 2024 - Impact Factor: 4.6
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Published: April 01, 2023 - Impact Factor: 2.9
- [9] Muhammad Awais Raza, M. Khalid Mahmood, Muhammad Imran, Fairouz Tchier, Daud Ahmad, and Muhammad Kashif Masood. *Computational studies on diverse characterizations of molecular descriptors for graphyne nanoribbon structures*. Molecules, 28(18), Sep 2023.
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Published: September 13, 2023 - Impact Factor: 4.2
- [10] Shahbaz Ali, M. Khalid Mahmood and K.P Shum. *On Characterization of Quadratic Exponential Invertible Graphs*. Southeast Asian Bulletin of Mathematics, 47 (6) 2023, 733-741.
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- [13] M. Khalid Mahmood, and Lubna Anwar. *The Iteration Digraphs of Lambert Map Over the Local Ring $\mathbb{Z}/p^k\mathbb{Z}$: Structures and Enumerations*. Iranian Journal of Mathematical Sciences and Informatics, 17(2) (2022), 307-314. <http://ijmsi.ir/article-1-1499-en.html>
September 05, 2022 - Impact Factor 0.643
- [14] Jia-Bao Liu, Shahbaz Ali, M. Khalid Mahmood and M. Haris Mateen. *On m -polar Diophantine Fuzzy N -soft set with Applications*. Combinatorial Chemistry and High Throughput Screening, 25 (3) (2022), 536-546. IF: 1.195
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- [19] M. Haris Mateen, M. Khalid Mahmood, Duha A Kattan and Shahbaz Ali. *A novel approach to find partitions of Z_m with equal sum subsets via complete graphs*. AIMS Mathematics, 6(9) (2021), 9998-10024. doi:10.3934/math.2021581
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Feb 22, 2021 - Impact Factor 0.643
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August 06, 2021 - Impact Factor 0.643
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- [23] Shahbaz Ali, M. Khalid Mahmood and Raúl M. Falcón. *A paradigmatic approach to investigate restricted hyper totient graphs*. AIMS Mathematics, 6(4) (2021), 3761-3771. <https://doi.org/10.3934/math.2021223>
Jan 26, 2021 - Impact Factor 0.643
- [24] Shahbaz Ali, M. Khalid Mahmood, Fairouz Tchier and F.M.O. Tawfiq, Classification of Upper Bound Sequences of Local Fractional Metric Dimension of Rotationally-Symmetric Hexagonal Planar Networks. Journal of Mathematics, (1) (2021), 1-24. Article ID 6613033. <https://doi.org/10.1155/2021/6613033>
Feb 28, 2021 - Impact Factor 0.643
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- [28] Daud Ahmad, Saba Naeem, Abdul Haseeb, and M. Khalid Mahmood. A computational approach to a quasi-minimal Bézier surface for computer graphics. VFAST Transactions on Software Engineering, 9(4):150-159, October-December, 2021.
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- [29] Shouzen Zeng, Shahbaz Ali, M. Khalid Mahmood, Florentin Smarandache and Daud Ahmad. *Decision-Making Problems under the Environment of m-Polar Diophantine Neutrosophic N-Soft Set*. CMES-Computer Modeling in Engineering and Sciences, 130(1):581-606, 2022.
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Submitted Work

- [64] Aneela, M. Khalid Mahmood and Daud Ahmad. *Symmetry of Algebraic Structured Simple Graphs: Characterizations and Applications*, 2024.
- [65] Aneela, M. Khalid Mahmood and Daud Ahmad. *Symmetry of Algebraic Structured Graphs Constructed on Subgroups*, 2024.
- [66] Sufyan Asif and M. Khalid Mahmood. *A Useful Encryption of Discrete Graphs on Symmetric Groups*, 2024.
- [67] Abrar Ahmad, M. Khalid Mahmood and Daud Ahmad. *Complex Pythagorean Neutrosophic Dombi Fuzzy Graph: Novel Investigations and Applications*, 2024.
- [68] Abrar Ahmad, M. Khalid Mahmood and Daud Ahmad. *Complex Spherical Fuzzy Graphs with Application*, 2024.
- [69] Shakir Mahmood and M. Khalid Mahmood. *Some Molecular Descriptors and Their Polynomials for Molecular Graphs of Celecoxib, Bupivacaine, Budesonide*, 2024.
- [70] Asif Abd-ur-ehman and M. Khalid Mahmood. *On Comparison of Connections and Degree Based Topological Indices for Crystal Cubic Carbons*, 2023.
- [71] Asif Abd-ur-ehman and M. Khalid Mahmood. *The Energy of the Conjugate Graph of Generalized Quaternion Group Q_{4m}* , 2023.
- [72] Asif Abd-ur-ehman and M. Khalid Mahmood. *Computing Upper Bound Sequences of $\text{Idimf}(G)$ of Rotationally Symmetric Triangular Planar Network constructed as a Halin Graph from Six Vertex Tree*, 2023.

Work in Progress

- [73] Aneela and M. Khalid Mahmood. *On Regular and Singular Over partitions*.
- [74] M. Khalid Mahmood and Asif Sufyan. *On Fundamental Theorems of Fuzzy Isomorphism of α -Fuzzy Subgroups*.
- [75] Asif Abd-ur-ehman and M. Khalid Mahmood. *On Upper Bound Sequences of Certain Families of Divisor Euler Function Graphs via Fractional and Local Fractional Metric Dimensions*.
- [76] Awais Ahmad, M. Khalid Mahmood. *On Distance-Degree Based Topological Indices for Hourglass and Circumcoronene Series of Benzenoid Systems*.
- [77] Shakir Mahmood and M. Khalid Mahmood. *Molecular Descriptor and their Shannon Entropies for Amphotericin B Structure*.
- [78] Asma Ehsan, M. Khalid Mahmood. *Mathematical Modelling for Identifying Biomarker Peptides Bounded with Metal Binding Clusters*
- [79] M. Khalid Mahmood, Abrar Ahmad, and Yaser Daanial Khan. *Using Mathematical Modeling and Statistical Moments in Chou's PseAAC to Identify Acetylalanine Sites*