Ali Ahmad

List of Publications by Year
in descending order

80	1,045	516710	501196
papers	citations	16	28
		h-index	g-index

80	80	80	576
all docs	docs citations	times ranked	citing authors

#	ARTICLE	IF	CITATIONS
1	M-Polynomials of Tetra-Cyano-Benzene Transition Metal Structure. Polycyclic Aromatic Compounds, 2023, 43, 471-481.	2.6	11
2	On the bounded partition dimension of some classes of convex polytopes. Journal of Discrete Mathematical Sciences and Cryptography, 2022, 25, 2535-2548.	0.8	7
3	Total vertex irregularity strength of generalized prism graphs. Journal of Discrete Mathematical Sciences and Cryptography, 2022, 25, 1855-1865.	0.8	0
4	Resolvability of the starphene structure and applications in electronics. Ain Shams Engineering Journal, 2022, 13, 101587.	6.1	23
5	Computing vertex resolvability of benzenoid tripod structure. AIMS Mathematics, 2022, 7, 6971-6983.	1.6	4
6	Vertex-Edge-Degree-Based Topological Properties for Hex-Derived Networks. Complexity, 2022, 2022, 1-13.	1.6	6
7	Metric Dimension of Some Generalized Families of Toeplitz Graphs. Mathematical Problems in Engineering, 2022, 2022, 1-10.	1.1	7
8	Reflexive edge strength of convex polytopes and corona product of cycle with path. AIMS Mathematics, 2022, 7, 11784-11800.	1.6	3
9	Computation of eccentric topological indices of zero-divisor graphs based on their edges. AIMS Mathematics, 2022, 7, 11509-11518.	1.6	1
10	Generalized perimantanes diamondoid structure and their edge-based metric dimensions. AIMS Mathematics, 2022, 7, 11718-11731.	1.6	3
11	Computation of Resolvability Parameters for Benzenoid Hammer Graph. Journal of Mathematics, 2022, 2022, 1-11.	1.0	0
12	Computation of edge- and vertex-degree-based topological indices for tetrahedral sheets of clay minerals. Main Group Metal Chemistry, 2022, 45, 26-34.	1.6	11
13	Vertex Metric-Based Dimension of Generalized Perimantanes Diamondoid Structure. IEEE Access, 2022, 10, 43320-43326.	4.2	12
14	Minimum Zagreb Eccentricity Indices of Two-Mode Network with Applications in Boiling Point and Benzenoid Hydrocarbons. Mathematics, 2022, 10, 1393.	2.2	24
15	Bounds on the partition dimension of one pentagonal carbon nanocone structure. Arabian Journal of Chemistry, 2022, 15, 103923.	4.9	15
16	On Adjacency Metric Dimension of Some Families of Graph. Journal of Function Spaces, 2022, 2022, 1-8.	0.9	5
17	The comparative study of resolving parameters for a family of ladder networks. AIMS Mathematics, 2022, 7, 16569-16589.	1.6	2
18	Verification of Some Topological Indices of Y-Junction Based Nanostructures by M-Polynomials. Journal of Mathematics, 2022, 2022, 1-18.	1.0	30

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19	Computation of vertex and edge resolvability of benzenoid tripod structure. Journal of King Saud University - Science, 2022, 34, 102208.	3.5	9
20	Computing topological indices of chemical structures of the conductive 2D MOFs. Journal of Information and Optimization Sciences, 2021, 42, 563-578.	0.3	2
21	On 3-total edge product cordial labeling of grid. Asian-European Journal of Mathematics, 2021, 14, 2150096.	0.5	1
22	Irregularity Strength of Circulant Graphs Using Algorithmic Approach. IEEE Access, 2021, 9, 54401-54406.	4.2	1
23	On the edge irregularity strength for some classes of plane graphs. AIMS Mathematics, 2021, 6, 2724-2731.	1.6	6
24	Computation of Vertex-Edge Degree Based Topological Descriptors for Hex-Derived Networks. IEEE Access, 2021, 9, 82989-83001.	4.2	7
25	Metric and Fault-Tolerant Metric Dimension of Hollow Coronoid. IEEE Access, 2021, 9, 81527-81534.	4.2	22
26	On Edge Irregular Reflexive Labeling of Categorical Product of Two Paths. Computer Systems Science and Engineering, 2021, 36, 485-492.	2.4	3
27	Computation of Vertex-Edge Degree Based Topological Descriptors for Metal Trihalides Network. IEEE Access, 2021, 9, 65330-65339.	4.2	4
28	On the edge irregular reflexive labeling of corona product of graphs with path. AKCE International Journal of Graphs and Combinatorics, 2021, 18, 53-59.	0.7	4
29	Comparative Study of Valency-Based Topological Descriptor for Hexagon Star Network. Computer Systems Science and Engineering, 2021, 36, 293-306.	2.4	24
30	A Study of Hexagon Star Network with Vertex-Edge-Based Topological Descriptors. Complexity, 2021, 2021, 1-7.	1.6	12
31	Distance-Based Topological Polynomials Associated with Zero-Divisor Graphs. Mathematical Problems in Engineering, 2021, 2021, 1-8.	1.1	13
32	Edge Metric and Fault-Tolerant Edge Metric Dimension of Hollow Coronoid. Mathematics, 2021, 9, 1405.	2.2	14
33	Comparative Study of Valency-Based Topological Indices for Tetrahedral Sheets of Clay Minerals. Current Organic Synthesis, 2021, 18, 711-718.	1.3	5
34	On Hamilton-Connectivity and Detour Index of Certain Families of Convex Polytopes. Mathematical Problems in Engineering, 2021, 2021, 1-18.	1.1	1
35	Maximum $ H $-index of bipartite network with some given parameters. AIMS Mathematics, 2021, 6, 5165-5175.	1.6	19
36	Computation of reverse degree-based topological indices of hex-derived networks. AIMS Mathematics, 2021, 6, 11330-11345.	1.6	5

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37	Edge Weight Based Entropy Measure of Different Shapes of Carbon Nanotubes. IEEE Access, 2021, 9, 139712-139724.	4.2	11
38	Computation of Edge Resolvability of Benzenoid Tripod Structure. Journal of Mathematics, 2021, 2021, 1-8.	1.0	7
39	M-Polynomials and Associated Topological Indices of Sodalite Materials. Mathematical Problems in Engineering, 2021, 2021, 1-10.	1.1	4
40	On Å•â„˜, â„˜ â˜ 1 , â€¦ , 1 Labelings of Circulant Graphs. Journal of Mathematics, 2021, 2021, 1-7.	1.0	2
41	On the Study of Reverse Degree-Based Topological Properties for the Third Type of <math xmlns="http://www.w3.org/1998/Math/MathML" id="M1"> <mi>p</mi> <mtext>‰th</mtext> </math> Chain Hex-Derived Network. Journal of Mathematics, 2021, 2021, 1-12.	1.0	5
42	Computation of Metric-Based Resolvability of Quartz Without Pendant Nodes. IEEE Access, 2021, 9, 151834-151840.	4.2	4
43	Edge Weight-Based Entropy of Magnesium Iodide Graph. Journal of Mathematics, 2021, 2021, 1-7.	1.0	4
44	One Sided Lipschitz Evolution Inclusions in Banach Spaces. Mathematics, 2021, 9, 3265.	2.2	0
45	Computing Vertex-Based Eccentric Topological Descriptors of Zero-Divisor Graph Associated with Commutative Rings. Mathematical Problems in Engineering, 2020, 2020, 1-6.	1.1	7
46	Comparative Study of ve-Degree and ev-Degree Topological Descriptors for Benzene Ring Embedded in P-Type-Surface in 2D Network. Polycyclic Aromatic Compounds, 2020, , 1-10.	2.6	10
47	Barycentric Subdivision of Cayley Graphs With Constant Edge Metric Dimension. IEEE Access, 2020, 8, 80624-80628.	4.2	25
48	Polynomials of Degree-Based Indices for Swapped Networks Modeled by Optical Transpose Interconnection System. IEEE Access, 2020, 8, 214293-214299.	4.2	15
49	Radio Number Associated with Zero Divisor Graph. Mathematics, 2020, 8, 2187.	2.2	3
50	Computing the Edge Irregularity Strength of Bipartite Graphs and Wheel Related Graphs. Fundamenta Informaticae, 2020, 174, 1-13.	0.4	1
51	Computing the topological descriptors of line graph of the complete m-ary trees. Journal of Intelligent and Fuzzy Systems, 2020, 39, 1081-1088.	1.4	4
52	Computing the metric dimension of kayak paddles graph and cycles with chord. Proyecciones, 2020, 39, 287-300.	0.3	31
53	Polynomials of Degree-based Indices for Three-Dimensional Mesh Network. Computers, Materials and Continua, 2020, 65, 1271-1282.	1.9	13
54	Polynomials of Degree-Based Indices of Metal-Organic Networks. Combinatorial Chemistry and High Throughput Screening, 2020, 23, .	1.1	10

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55	Computation of Total Vertex Irregularity Strength of Theta Graphs. IEEE Access, 2019, 7, 113826-113831.	4.2	0
56	On Eccentric Topological Indices Based on Edges of Zero Divisor Graphs. Symmetry, 2019, 11, 907.	2.2	12
57	Computing the Schultz polynomials and indices for ladder related graphs. Proyecciones, 2019, 38, 1081-1092.	0.3	3
58	Computing The Irregularity Strength of Planar Graphs. Mathematics, 2018, 6, 150.	2.2	5
59	Construction Algorithm for Zero Divisor Graphs of Finite Commutative Rings and Their Vertex-Based Eccentric Topological Indices. Mathematics, 2018, 6, 301.	2.2	17
60	On the Degree-Based Topological Indices of the Tickysim SpiNNaker Model. Axioms, 2018, 7, 73.	1.9	4
61	Computing the metric dimension of the categorial product of some graphs. International Journal of Computer Mathematics, 2017, 94, 363-371.	1.8	17
62	On 3-total edge product cordial labeling of honeycomb. AKCE International Journal of Graphs and Combinatorics, 2017, 14, 149-157.	0.7	4
63	Computation of certain topological properties of para-line graph of honeycomb networks and graphene. Discrete Mathematics, Algorithms and Applications, 2017, 09, 1750064.	0.6	14
64	On the degree based topological indices of benzene ring embedded in P-type-surface in 2D network. Hacettepe Journal of Mathematics and Statistics, 2017, 4, .	0.3	17
65	On Minimal Doubly Resolving Sets of Circulant Graphs. Acta Mechanica Slovaca, 2017, 21, 6-11.	0.1	13
66	Combination antiretroviral therapy and indoleamine 2,3-dioxygenase in HIV infections. Aids, 2016, 30, 1839-1841.	2.2	1
67	Imbalanced production of IL-18 and its antagonist in human diseases, and its implications for HIV-1 infection. Cytokine, 2016, 82, 38-51.	3.2	31
68	On Zagreb indices, Zagreb polynomials of some nanostar dendrimers. Applied Mathematics and Computation, 2016, 280, 132-139.	2.2	155
69	On Zagreb Indices, Zagreb Polynomials of Nanocone and Nanotubes. Journal of Computational and Theoretical Nanoscience, 2016, 13, 5086-5092.	0.4	12
70	Irregular labelings of helm and sun graphs. AKCE International Journal of Graphs and Combinatorics, 2015, 12, 161-168.	0.7	12
71	Immunosuppressive Tryptophan Catabolism and Gut Mucosal Dysfunction Following Early HIV Infection. Journal of Infectious Diseases, 2015, 212, 355-366.	4.0	118
72	On the metric dimension of barcycentric subdivision of Cayley graphs $Cay(Z_{n}oplus Z_{m})$. Miskolc Mathematical Notes, 2015, 16, 637-646.	0.6	11

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73	On Edge Irregular Total Labeling of Categorical Product of Two Cycles. Theory of Computing Systems, 2014, 54, 1-12.	1.1	46
74	On edge irregularity strength of graphs. Applied Mathematics and Computation, 2014, 243, 607-610.	2.2	39
75	Magic Labelings of Type (a, b, c) of Families of Wheels. Mathematics in Computer Science, 2013, 7, 315-319.	0.4	4
76	On classes of regular graphs with constant metric dimension. Acta Mathematica Scientia, 2013, 33, 187-206.	1.0	28
77	Vertex-antimagic labelings of regular graphs. Acta Mathematica Sinica, English Series, 2012, 28, 1865-1874.	0.6	3
78	Total vertex irregularity strength of disjoint union of Helm graphs. Discussiones Mathematicae - Graph Theory, 2012, 32, 427.	0.3	5
79	On Degree Based Topological Indices of Transition Metal-Tetra Cyano Polycyclic Benzene Organic Network. Polycyclic Aromatic Compounds, 0, , 1-27.	2.6	2
80	Computation of edge C_4-irregularity strength of Cartesian product of graphs. Journal of Discrete Mathematical Sciences and Cryptography, 0, , 1-8.	0.8	0