## Ali Ahmad

## List of Publications by Year in descending order

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		516710	501196
80	1,045	16	28
papers	citations	h-index	g-index
2.2	0.0	0.0	<b>57</b> 6
80	80	80	576
all docs	docs citations	times ranked	citing authors

#	Article	IF	CITATIONS
1	On Zagreb indices, Zagreb polynomials of some nanostar dendrimers. Applied Mathematics and Computation, 2016, 280, 132-139.	2.2	155
2	Immunosuppressive Tryptophan Catabolism and Gut Mucosal Dysfunction Following Early HIV Infection. Journal of Infectious Diseases, 2015, 212, 355-366.	4.0	118
3	On Edge Irregular Total Labeling of Categorical Product of Two Cycles. Theory of Computing Systems, 2014, 54, 1-12.	1.1	46
4	On edge irregularity strength of graphs. Applied Mathematics and Computation, 2014, 243, 607-610.	2.2	39
5	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
6	Computing the metric dimension of kayak paddles graph and cycles with chord. Proyecciones, 2020, 39, 287-300.	0.3	31
7	Verification of Some Topological Indices of Y-Junction Based Nanostructures by M-Polynomials. Journal of Mathematics, 2022, 2022, 1-18.	1.0	30
8	On classes of regular graphs with constant metric dimension. Acta Mathematica Scientia, 2013, 33, 187-206.	1.0	28
9	Barycentric Subdivision of Cayley Graphs With Constant Edge Metric Dimension. IEEE Access, 2020, 8, 80624-80628.	4.2	25
10	Comparative Study of Valency-Based Topological Descriptor for Hexagon Star Network. Computer Systems Science and Engineering, 2021, 36, 293-306.	2.4	24
11	Minimum Zagreb Eccentricity Indices of Two-Mode Network with Applications in Boiling Point and Benzenoid Hydrocarbons. Mathematics, 2022, 10, 1393.	2.2	24
12	Resolvability of the starphene structure and applications in electronics. Ain Shams Engineering Journal, 2022, 13, 101587.	6.1	23
13	Metric and Fault-Tolerant Metric Dimension of Hollow Coronoid. IEEE Access, 2021, 9, 81527-81534.	4.2	22
14	Maximum \$ H \$-index of bipartite network with some given parameters. AIMS Mathematics, 2021, 6, 5165-5175.	1.6	19
15	Computing the metric dimension of the categorial product of some graphs. International Journal of Computer Mathematics, 2017, 94, 363-371.	1.8	17
16	Construction Algorithm for Zero Divisor Graphs of Finite Commutative Rings and Their Vertex-Based Eccentric Topological Indices. Mathematics, 2018, 6, 301.	2.2	17
17	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
18	Polynomials of Degree-Based Indices for Swapped Networks Modeled by Optical Transpose Interconnection System. IEEE Access, 2020, 8, 214293-214299.	4.2	15

#	Article	IF	CITATIONS
19	Bounds on the partition dimension of one pentagonal carbon nanocone structure. Arabian Journal of Chemistry, 2022, 15, 103923.	4.9	15
20	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
21	Edge Metric and Fault-Tolerant Edge Metric Dimension of Hollow Coronoid. Mathematics, 2021, 9, 1405.	2.2	14
22	Distance-Based Topological Polynomials Associated with Zero-Divisor Graphs. Mathematical Problems in Engineering, 2021, 2021, 1-8.	1.1	13
23	Polynomials of Degree-based Indices for Three-Dimensional Mesh Network. Computers, Materials and Continua, 2020, 65, 1271-1282.	1.9	13
24	On Minimal Doubly Resolving Sets of Circulant Graphs. Acta Mechanica Slovaca, 2017, 21, 6-11.	0.1	13
25	Irregular labelings of helm and sun graphs. AKCE International Journal of Graphs and Combinatorics, 2015, 12, 161-168.	0.7	12
26	On Eccentric Topological Indices Based on Edges of Zero Divisor Graphs. Symmetry, 2019, 11, 907.	2.2	12
27	A Study of Hexagon Star Network with Vertex-Edge-Based Topological Descriptors. Complexity, 2021, 2021, 1-7.	1.6	12
28	On Zagreb Indices, Zagreb Polynomials of Nanocone and Nanotubes. Journal of Computational and Theoretical Nanoscience, 2016, 13, 5086-5092.	0.4	12
29	Vertex Metric-Based Dimension of Generalized Perimantanes Diamondoid Structure. IEEE Access, 2022, 10, 43320-43326.	4.2	12
30	On the metric dimension of barcycentric subdivision of Cayley graphs $Cay(Z_{n})$ where $Cay(Z_{n})$ Miskolc Mathematical Notes, 2015, 16, 637-646.	0.6	11
31	Edge Weight Based Entropy Measure of Different Shapes of Carbon Nanotubes. IEEE Access, 2021, 9, 139712-139724.	4.2	11
32	M-Polynomials of Tetra-Cyano-Benzene Transition Metal Structure. Polycyclic Aromatic Compounds, 2023, 43, 471-481.	2.6	11
33	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
34	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
35	Polynomials of Degree-Based Indices of Metal-Organic Networks. Combinatorial Chemistry and High Throughput Screening, 2020, 23, .	1.1	10
36	Computation of vertex and edge resolvability of benzenoid tripod structure. Journal of King Saud University - Science, 2022, 34, 102208.	3.5	9

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37	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
38	Computation of Vertex-Edge Degree Based Topological Descriptors for Hex-Derived Networks. IEEE Access, 2021, 9, 82989-83001.	4.2	7
39	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
40	Computation of Edge Resolvability of Benzenoid Tripod Structure. Journal of Mathematics, 2021, 2021, 1-8.	1.0	7
41	Metric Dimension of Some Generalized Families of Toeplitz Graphs. Mathematical Problems in Engineering, 2022, 2022, 1-10.	1.1	7
42	On the edge irregularity strength for some classes of plane graphs. AIMS Mathematics, 2021, 6, 2724-2731.	1.6	6
43	Vertex-Edge-Degree-Based Topological Properties for Hex-Derived Networks. Complexity, 2022, 2022, 1-13.	1.6	6
44	Computing The Irregularity Strength of Planar Graphs. Mathematics, 2018, 6, 150.	2.2	5
45	Comparative Study of Valency-Based Topological Indices for Tetrahedral Sheets of Clay Minerals. Current Organic Synthesis, 2021, 18, 711-718.	1.3	5
46	Computation of reverse degree-based topological indices of hex-derived networks. AIMS Mathematics, 2021, 6, 11330-11345.	1.6	5
47	Total vertex irregularity strength of disjoint union of Helm graphs. Discussiones Mathematicae - Graph Theory, 2012, 32, 427.	0.3	5
48	On the Study of Reverse Degree-Based Topological Properties for the Third Type of $ p  th $ Chain Hex-Derived Network. Journal of Mathematics, 2021, 2021, 1-12.	1.0	5
49	On Adjacency Metric Dimension of Some Families of Graph. Journal of Function Spaces, 2022, 2022, 1-8.	0.9	5
50	Magic Labelings of Type (a, b, c) of Families of Wheels. Mathematics in Computer Science, 2013, 7, 315-319.	0.4	4
51	On 3-total edge product cordial labeling of honeycomb. AKCE International Journal of Graphs and Combinatorics, 2017, 14, 149-157.	0.7	4
52	On the Degree-Based Topological Indices of the Tickysim SpiNNaker Model. Axioms, 2018, 7, 73.	1.9	4
53	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
54	Computation of Vertex-Edge Degree Based Topological Descriptors for Metal Trihalides Network. IEEE Access, 2021, 9, 65330-65339.	4.2	4

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55	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
56	M-Polynomials and Associated Topological Indices of Sodalite Materials. Mathematical Problems in Engineering, 2021, 2021, 1-10.	1.1	4
57	Computation of Metric-Based Resolvability of Quartz Without Pendant Nodes. IEEE Access, 2021, 9, 151834-151840.	4.2	4
58	Edge Weight-Based Entropy of Magnesium Iodide Graph. Journal of Mathematics, 2021, 2021, 1-7.	1.0	4
59	Computing vertex resolvability of benzenoid tripod structure. AIMS Mathematics, 2022, 7, 6971-6983.	1.6	4
60	Vertex-antimagic labelings of regular graphs. Acta Mathematica Sinica, English Series, 2012, 28, 1865-1874.	0.6	3
61	Radio Number Associated with Zero Divisor Graph. Mathematics, 2020, 8, 2187.	2.2	3
62	On Edge Irregular Reflexive Labeling of Categorical Product of Two Paths. Computer Systems Science and Engineering, 2021, 36, 485-492.	2.4	3
63	Computing the Schultz polynomials and indices for ladder related graphs. Proyecciones, 2019, 38, 1081-1092.	0.3	3
64	Reflexive edge strength of convex polytopes and corona product of cycle with path. AIMS Mathematics, 2022, 7, 11784-11800.	1.6	3
65	Generalized perimantanes diamondoid structure and their edge-based metric dimensions. AIMS Mathematics, 2022, 7, 11718-11731.	1.6	3
66	Computing topological indices of chemical structures of the conductive 2D MOFs. Journal of Information and Optimization Sciences, 2021, 42, 563-578.	0.3	2
67	On Degree Based Topological Indices of Transition Metal-Tetra Cyano Polycyclic Benzene Organic Network. Polycyclic Aromatic Compounds, 0, , 1-27.	2.6	2
68	On Å•â"~, â"~ â~' 1 , … , 1 Labelings of Circulant Graphs. Journal of Mathematics, 2021, 2021, 1-7.	1.0	2
69	The comparative study of resolving parameters for a family of ladder networks. AIMS Mathematics, 2022, 7, 16569-16589.	1.6	2
70	Combination antiretroviral therapy and indoleamine 2,3-dioxygenase in HIV infections. Aids, 2016, 30, 1839-1841.	2.2	1
71	Computing the Edge Irregularity Strength of Bipartite Graphs and Wheel Related Graphs. Fundamenta Informaticae, 2020, 174, 1-13.	0.4	1
72	On 3-total edge product cordial labeling of grid. Asian-European Journal of Mathematics, 2021, 14, 2150096.	0.5	1

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73	Irregularity Strength of Circulant Graphs Using Algorithmic Approach. IEEE Access, 2021, 9, 54401-54406.	4.2	1
74	On Hamilton-Connectivity and Detour Index of Certain Families of Convex Polytopes. Mathematical Problems in Engineering, 2021, 2021, 1-18.	1.1	1
75	Computation of eccentric topological indices of zero-divisor graphs based on their edges. AIMS Mathematics, 2022, 7, 11509-11518.	1.6	1
76	Computation of Total Vertex Irregularity Strength of Theta Graphs. IEEE Access, 2019, 7, 113826-113831.	4.2	0
77	Total vertex irregularity strength of generalized prism graphs. Journal of Discrete Mathematical Sciences and Cryptography, 2022, 25, 1855-1865.	0.8	O
78	Computation of edge $\langle i \rangle C \langle  i \rangle \langle sub \rangle 4 \langle  sub \rangle$ -irregularity strength of Cartesian product of graphs. Journal of Discrete Mathematical Sciences and Cryptography, 0, , 1-8.	0.8	0
79	One Sided Lipschitz Evolution Inclusions in Banach Spaces. Mathematics, 2021, 9, 3265.	2.2	O
80	Computation of Resolvability Parameters for Benzenoid Hammer Graph. Journal of Mathematics, 2022, 2022, 1-11.	1.0	0