Muhammad Imran

List of Publications by Year
in descending order

293 papers	7,865 citations	66234 42 h-index	82410 72 g-index
294 all docs	294 docs citations	294 times ranked	6742 citing authors

#	Article	IF	Citations
1	Software-Defined Industrial Internet of Things in the Context of Industry 4.0. IEEE Sensors Journal, 2016, , 1-1.	2.4	351
2	A Deep Learning-Based Framework for Automatic Brain Tumors Classification Using Transfer Learning. Circuits, Systems, and Signal Processing, 2020, 39, 757-775.	1.2	323
3	A Deep Learning Model Based on Concatenation Approach for the Diagnosis of Brain Tumor. IEEE Access, 2020, 8, 55135-55144.	2.6	219
4	Mobile Crowd Sensing for Traffic Prediction in Internet of Vehicles. Sensors, 2016, 16, 88.	2.1	200
5	Adaptive Transmission Optimization in SDN-Based Industrial Internet of Things With Edge Computing. IEEE Internet of Things Journal, 2018, 5, 1351-1360.	5.5	200
6	Big data analytics for preventive medicine. Neural Computing and Applications, 2020, 32, 4417-4451.	3.2	175
7	Big data analytics for manufacturing internet of things: opportunities, challenges and enabling technologies. Enterprise Information Systems, 2020, 14, 1279-1303.	3.3	169
8	On Zagreb indices, Zagreb polynomials of some nanostar dendrimers. Applied Mathematics and Computation, 2016, 280, 132-139.	1.4	155
9	A Hybrid Computing Solution and Resource Scheduling Strategy for Edge Computing in Smart Manufacturing. IEEE Transactions on Industrial Informatics, 2019, 15, 4225-4234.	7.2	155
10	Computation of topological indices of certain networks. Applied Mathematics and Computation, 2014, 240, 213-228.	1.4	140
11	Forgotten topological index of chemical structure in drugs. Saudi Pharmaceutical Journal, 2016, 24, 258-264.	1.2	127
12	Efficient Brain Tumor Segmentation With Multiscale Two-Pathway-Group Conventional Neural Networks. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 1911-1919.	3.9	120
13	PEGylation: a promising strategy to overcome challenges to cancer-targeted nanomedicines: a review of challenges to clinical transition and promising resolution. Drug Delivery and Translational Research, 2019, 9, 721-734.	3.0	117
14	Machine Learning Techniques for 5G and Beyond. IEEE Access, 2021, 9, 23472-23488.	2.6	111
15	Refining Parkinson's neurological disorder identification through deep transfer learning. Neural Computing and Applications, 2020, 32, 839-854.	3.2	105
16	Traffic accident detection and condition analysis based on social networking data. Accident Analysis and Prevention, 2021, 151, 105973.	3.0	99
17	Reconfigurable Smart Factory for Drug Packing in Healthcare Industry 4.0. IEEE Transactions on Industrial Informatics, 2019, 15, 507-516.	7.2	97
18	Mobile ad hoc cloud: A survey. Wireless Communications and Mobile Computing, 2016, 16, 2572-2589.	0.8	87

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19	On topological indices of poly oxide, poly silicate, DOX, and DSL networks. Canadian Journal of Chemistry, 2015, 93, 730-739.	0.6	74
20	Gum tragacanth stabilized green gold nanoparticles as cargos for Naringin loading: A morphological investigation through AFM. Carbohydrate Polymers, 2017, 174, 243-252.	5.1	72
21	Molecularly Characterized Solvent Extracts and Saponins from Polygonum hydropiper L. Show High Anti-Angiogenic, Anti-Tumor, Brine Shrimp, and Fibroblast NIH/3T3 Cell Line Cytotoxicity. Frontiers in Pharmacology, 2016, 7, 74.	1.6	69
22	Performance Analysis of Different Types of Machine Learning Classifiers for Non-Technical Loss Detection. IEEE Access, 2020, 8, 16033-16048.	2.6	68
23	Blending Big Data Analytics: Review on Challenges and a Recent Study. IEEE Access, 2020, 8, 3629-3645.	2.6	66
24	Secure Authentication for Remote Patient Monitoring with Wireless Medical Sensor Networks. Sensors, 2016, 16, 424.	2.1	65
25	Exact String Matching Algorithms: Survey, Issues, and Future Research Directions. IEEE Access, 2019, 7, 69614-69637.	2.6	64
26	Emergency Message Dissemination Schemes Based on Congestion Avoidance in VANET and Vehicular FoG Computing. IEEE Access, 2019, 7, 1570-1585.	2.6	63
27	Synthesis of chitosan coated metal organic frameworks (MOFs) for increasing vancomycin bactericidal potentials against resistant S. aureus strain. Materials Science and Engineering C, 2019, 105, 110111.	3.8	61
28	Cloud Based Secure Service Providing for IoTs Using Blockchain. , 2019, , .		61
29	On topological indices of certain interconnection networks. Applied Mathematics and Computation, 2014, 244, 936-951.	1.4	60
30	Delay and energy consumption analysis of priority guaranteed MAC protocol for wireless body area networks. Wireless Networks, 2017, 23, 1249-1266.	2.0	60
31	On Topological Indices of Fractal and Cayley Tree Type Dendrimers. Discrete Dynamics in Nature and Society, 2018, 2018, 1-11.	0.5	59
32	Computation of Certain Topological Indices of Nanotubes Covered by C_5 and C_7. Journal of Computational and Theoretical Nanoscience, 2015, 12, 533-541.	0.4	56
33	Investigating Smart Home Security: Is Blockchain the Answer?. IEEE Access, 2020, 8, 117802-117816.	2.6	55
34	Efficient Data Gathering in 3D Linear Underwater Wireless Sensor Networks Using Sink Mobility. Sensors, 2016, 16, 404.	2.1	54
35	Extending the Technology Acceptance Model for Use of e-Learning Systems by Digital Learners. IEEE Access, 2018, 6, 73395-73404.	2.6	52
36	Fault-Tolerant Resolvability and Extremal Structures of Graphs. Mathematics, 2019, 7, 78.	1.1	51

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37	Securing Internet of Medical Things with Friendly-jamming schemes. Computer Communications, 2020, 160, 431-442.	3.1	51
38	Computing the forgotten topological index of four operations on graphs. AKCE International Journal of Graphs and Combinatorics, 2017, 14, 70-79.	0.4	50
39	Gum acacia stabilized silver nanoparticles based nano-cargo for enhanced anti-arthritic potentials of hesperidin in adjuvant induced arthritic rats. Artificial Cells, Nanomedicine and Biotechnology, 2018, 46, 597-607.	1.9	50
40	A Blockchain Model for Fair Data Sharing in Deregulated Smart Grids. , 2019, , .		50
41	Lightweight Searchable Encryption Protocol for Industrial Internet of Things. IEEE Transactions on Industrial Informatics, 2021, 17, 4248-4259.	7.2	49
42	On the metric dimension of circulant graphs. Applied Mathematics Letters, 2012, 25, 320-325.	1.5	48
43	On Topological Properties of Symmetric Chemical Structures. Symmetry, 2018, 10, 173.	1.1	48
44	Nanoclay-mediated photocatalytic activity enhancement of copper oxide nanoparticles for enhanced methyl orange photodegradation. Journal of Materials Science: Materials in Electronics, 2020, 31, 8971-8985.	1.1	47
45	Blind Detection of Copy-Move Forgery in Digital Audio Forensics. IEEE Access, 2017, 5, 12843-12855.	2.6	45
46	Correlation between the Estrada index and <i>Ï€</i>â€electronic energies for benzenoid hydrocarbons with applications to boron nanotubes. International Journal of Quantum Chemistry, 2019, 119, e26016.	1.0	45
47	Process Migration-Based Computational Offloading Framework for IoT-Supported Mobile Edge/Cloud Computing. IEEE Internet of Things Journal, 2020, 7, 4171-4182.	5.5	44
48	Quality testing of distance-based molecular descriptors for benzenoid hydrocarbons. Journal of Molecular Structure, 2020, 1222, 128927.	1.8	43
49	Isolation and characterization of gluten-degrading Enterococcus mundtii and Wickerhamomyces anomalus, potential probiotic strains from indigenously fermented sourdough (Khamir). LWT - Food Science and Technology, 2018, 91, 271-277.	2.5	42
50	Cloud-based smart manufacturing for personalized candy packing application. Journal of Supercomputing, 2018, 74, 4339-4357.	2.4	42
51	On families of convex polytopes with constant metric dimension. Computers and Mathematics With Applications, 2010, 60, 2629-2638.	1.4	40
52	On Topological Indices of Certain Families of Nanostar Dendrimers. Molecules, 2016, 21, 821.	1.7	40
53	An Application Development Framework for Internet-of-Things Service Orchestration. IEEE Internet of Things Journal, 2020, 7, 4543-4556.	5.5	40
54	On molecular topological properties of hexâ€derived networks. Journal of Chemometrics, 2016, 30, 121-129.	0.7	39

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55	Fabrication of lecithin-gum tragacanth muco-adhesive hybrid nano-carrier system for in-vivo performance of Amphotericin B. Carbohydrate Polymers, 2018, 194, 89-96.	5.1	39
56	On Distance-Based Topological Descriptors of Subdivision Vertex-Edge Join of Three Graphs. IEEE Access, 2019, 7, 143381-143391.	2.6	39
57	Quality testing of spectrum-based distance descriptors for polycyclic aromatic hydrocarbons with applications to carbon nanotubes and nanocones. Arabian Journal of Chemistry, 2021, 14, 102994.	2.3	39
58	Computation of Certain Topological Indices of Nanotubes. Journal of Computational and Theoretical Nanoscience, 2015, 12, 70-76.	0.4	38
59	On Wiener index and Wiener polarity index of some polyomino chains. Journal of Discrete Mathematical Sciences and Cryptography, 2019, 22, 1151-1164.	0.5	38
60	Characterizing the role of vehicular cloud computing in road traffic management. International Journal of Distributed Sensor Networks, 2017, 13, 155014771770872.	1.3	37
61	An investigation of the drivers of social commerce and e-word-of-mouth intentions: Elucidating the role of social commerce in E-business. Electronic Markets, 2021, 31, 181-195.	4.4	37
62	Topological aspects of metal-organic structure with the help of underlying networks. Arabian Journal of Chemistry, 2021, 14, 103157.	2.3	37
63	A Hybrid and Secure Priority-Guaranteed MAC Protocol for Wireless Body Area Network. International Journal of Distributed Sensor Networks, 2014, 10, 481761.	1.3	36
64	On Connectivity of Wireless Sensor Networks with Directional Antennas. Sensors, 2017, 17, 134.	2.1	36
65	An Efficient Computational Technique for Degree and Distance Based Topological Descriptors With Applications. IEEE Access, 2019, 7, 32276-32296.	2.6	36
66	Congestion avoidance through fog computing in internet of vehicles. Journal of Ambient Intelligence and Humanized Computing, 2019, 10, 3863-3877.	3.3	36
67	Flow-Aware Elephant Flow Detection for Software-Defined Networks. IEEE Access, 2020, 8, 72585-72597.	2.6	36
68	Heterogeneity-Aware Task Allocation in Mobile Ad Hoc Cloud. IEEE Access, 2017, 5, 1779-1795.	2.6	35
69	Molecular description of carbon graphite and crystal cubic carbon structures. Canadian Journal of Chemistry, 2017, 95, 674-686.	0.6	35
70	CRT-BIoV: A Cognitive Radio Technique for Blockchain-Enabled Internet of Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 4005-4015.	4.7	35
71	Cloudlet Computing: Recent Advances, Taxonomy, and Challenges. IEEE Access, 2021, 9, 29609-29622.	2.6	35
72	Computing the metric dimension of wheel related graphs. Applied Mathematics and Computation, 2014, 242, 624-632.	1.4	33

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73	On Degree Based Topological Indices of Certain Nanotubes. Journal of Computational and Theoretical Nanoscience, 2015, 12, 1599-1605.	0.4	33
74	On topological properties of dominating David derived networks. Canadian Journal of Chemistry, 2016, 94, 137-148.	0.6	33
75	Resolvability and fault-tolerant resolvability structures of convex polytopes. Theoretical Computer Science, 2019, 796, 114-128.	0.5	33
76	Clustering-based real-time anomaly detection—A breakthrough in big data technologies. Transactions on Emerging Telecommunications Technologies, 2022, 33, e3647.	2.6	33
77	Intelligent IoT Framework for Indoor Healthcare Monitoring of Parkinson's Disease Patient. IEEE Journal on Selected Areas in Communications, 2021, 39, 593-602.	9.7	33
78	The role of unmanned aerial vehicles and mmWave in 5G: Recent advances and challenges. Transactions on Emerging Telecommunications Technologies, 2021, 32, e4241.	2.6	33
79	Domperidone nanocrystals with boosted oral bioavailability: fabrication, evaluation and molecular insight into the polymer-domperidone nanocrystal interaction. Drug Delivery and Translational Research, 2019, 9, 284-297.	3.0	32
80	Is blockchain for Internet of Medical Things a panacea for COVID-19 pandemic?. Pervasive and Mobile Computing, 2021, 75, 101434.	2.1	32
81	Topological properties of cellular neural networks. Journal of Intelligent and Fuzzy Systems, 2019, 37, 3605-3614.	0.8	31
82	Sourdough bread: A contemporary cereal fermented product. Journal of Food Processing and Preservation, 2019, 43, e13883.	0.9	31
83	On molecular topological properties of benzenoid structures. Canadian Journal of Chemistry, 2016, 94, 687-698.	0.6	29
84	Formal verification and validation of a movement control actor relocation algorithm for safety–critical applications. Wireless Networks, 2016, 22, 247-265.	2.0	29
85	Design and synthesis of mixed micellar system for enhanced anticancer efficacy of Paclitaxel through its co-delivery with Naringin. Drug Development and Industrial Pharmacy, 2019, 45, 703-714.	0.9	29
86	Fault-Tolerant Metric Dimension of Interconnection Networks. IEEE Access, 2020, 8, 145435-145445.	2.6	29
87	Performance analysis of machine learning classifiers for non-technical loss detection. Journal of Ambient Intelligence and Humanized Computing, 2023, 14, 15327-15342.	3.3	29
88	On classes of regular graphs with constant metric dimension. Acta Mathematica Scientia, 2013, 33, 187-206.	0.5	28
89	Distance-based topological descriptors for measuring the π-electronic energy of benzenoid hydrocarbons with applications to carbon nanotubes. Mathematical Methods in the Applied Sciences, 0, , .	1.2	28
90	A novel countermeasure technique for reactive jamming attack in internet of things. Multimedia Tools and Applications, 2019, 78, 29899-29920.	2.6	27

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91	CNN and GRU based Deep Neural Network for Electricity Theft Detection to Secure Smart Grid. , 2020, , .		27
92	A smart healthcare framework for detection and monitoring of COVID-19 using IoT and cloud computing. Neural Computing and Applications, 2023, 35, 13775-13789.	3.2	27
93	Implementing Partitioning Detection and Connectivity Restoration in WSAN Using VDM-SL. , 2015, , .		26
94	On the Metric Dimension of Generalized Petersen Multigraphs. IEEE Access, 2018, 6, 74328-74338.	2.6	26
95	Topological properties of benzenoid, phenylenes and nanostar dendrimers. Journal of Discrete Mathematical Sciences and Cryptography, 2019, 22, 1229-1248.	0.5	26
96	Computing Eccentric Version of Second Zagreb Index of Polycyclic Aromatic Hydrocarbons (PAHk). Applied Mathematics and Nonlinear Sciences, 2016, 1, 247-252.	0.9	26
97	Model Compression for IoT Applications in Industry 4.0 via Multiscale Knowledge Transfer. IEEE Transactions on Industrial Informatics, 2020, 16, 6013-6022.	7.2	25
98	Formal Specification and Validation of a Localized Algorithm for Segregation of Critical/Noncritical Nodes in MAHSNs. International Journal of Distributed Sensor Networks, 2014, 10, 140973.	1.3	25
99	On topological properties of sierpinski networks. Chaos, Solitons and Fractals, 2017, 98, 199-204.	2.5	24
100	Bounds for the general sum-connectivity index of composite graphs. Journal of Inequalities and Applications, 2017, 2017, 76.	0.5	24
101	A Multivariant Stream Analysis Approach to Detect and Mitigate DDoS Attacks in Vehicular Ad Hoc Networks. Wireless Communications and Mobile Computing, 2018, 2018, 1-13.	0.8	23
102	Topological Characterization of the Symmetrical Structure of Bismuth Tri-Iodide. Symmetry, 2018, 10, 201.	1.1	23
103	The sharp bounds on general sum-connectivity index of four operations on graphs. Journal of Inequalities and Applications, 2016, 2016, .	0.5	22
104	On molecular topological properties of dendrimers. Canadian Journal of Chemistry, 2016, 94, 120-125.	0.6	22
105	Impact of Fermentation on Antinutritional Factors and Protein Degradation of Legume Seeds: A Review. Food Reviews International, 2023, 39, 1227-1249.	4.3	22
106	Edge Mostar index of chemical structures and nanostructures using graph operations. International Journal of Quantum Chemistry, 2020, 120, e26259.	1.0	22
107	On the Edges Version of Atom-Bond Connectivity Index of Nanotubes. Journal of Computational and Theoretical Nanoscience, 2016, 13, 6733-6740.	0.4	22
108	Eccentricity Based Topological Indices of an Oxide Network. Mathematics, 2018, 6, 126.	1.1	21

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109	Eccentricity based topological indices of honeycomb networks. Journal of Discrete Mathematical Sciences and Cryptography, 2019, 22, 1199-1213.	0.5	21
110	Opuntioside, opuntiol and its metallic nanoparticles attenuate adjuvant-induced arthritis: Novel suppressors of Toll-like receptors -2 and -4. Biomedicine and Pharmacotherapy, 2019, 112, 108624.	2.5	20
111	Modified eccentric descriptors of crystal cubic carbon. Journal of Discrete Mathematical Sciences and Cryptography, 2019, 22, 1215-1228.	0.5	20
112	An Automatic Digital Audio Authentication/Forensics System. IEEE Access, 2017, 5, 2994-3007.	2.6	19
113	Energy Efficiency Perspectives of Femtocells in Internet of Things: Recent Advances and Challenges. IEEE Access, 2017, 5, 26808-26818.	2.6	19
114	Synthesis of biocompatible triazole based non-ionic surfactant and its vesicular drug delivery investigation. Chemistry and Physics of Lipids, 2020, 228, 104894.	1.5	19
115	Exploration of target architecture for a wireless camera based sensor node. , 2010, , .		18
116	Corniculatin A, a new flavonoidal glucoside from Oxalis corniculata. Revista Brasileira De Farmacognosia, 2013, 23, 630-634.	0.6	18
117	Kinetic modeling of pyrolysis of three Iranian waste oils in a micro-fluidized bed. Petroleum Science and Technology, 2017, 35, 183-189.	0.7	18
118	Evaluation of morphology, aggregation pattern and size-dependent drug-loading efficiency of gold nanoparticles stabilised with poly (2-vinyl pyridine). Journal of Nanoparticle Research, 2017, 19, 1.	0.8	18
119	Enhanced Antibacterial Potential of Naringin Loaded Î² Cyclodextrin Nanoparticles. Journal of Cluster Science, 2022, 33, 339-348.	1.7	18
120	On Multiple Zagreb Indices of TiO2 Nanotubes. Acta Chimica Slovenica, 2015, 62, 973-976.	0.2	18
121	Computing Metric and Partition Dimension of 2-Dimensional Lattices of Certain Nanotubes. Journal of Computational and Theoretical Nanoscience, 2014, 11, 2419-2423.	0.4	17
122	Computing multiple ABC index and multiple GA index of some grid graphs. Open Physics, 2018, 16, 588-598.	0.8	17
123	Reformulated Zagreb Indices of Some Derived Graphs. Mathematics, 2019, 7, 366.	1.1	17
124	Advertising through UAVs: Optimized path system for delivering smart realâ€estate advertisement materials. International Journal of Intelligent Systems, 2021, 36, 3429-3463.	3.3	17
125	A Novel Collaborative IoD-Assisted VANET Approach for Coverage Area Maximization. IEEE Access, 2021, 9, 61211-61223.	2.6	17
126	Enhanced therapeutic efficacy of clotrimazole by delivery through poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 67 Td (oxide)â€b 47769.	1.3	16

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127	Secure and efficient data delivery for fog-assisted wireless body area networks. Peer-to-Peer Networking and Applications, 2019, 12, 1289-1307.	2.6	16
128	Novel Face Index for Benzenoid Hydrocarbons. Mathematics, 2020, 8, 312.	1.1	16
129	On the Edges Version of Atom-Bond Connectivity and Geometric Arithmetic Indices of Nanocones $CNC_k[n]$. Journal of Computational and Theoretical Nanoscience, 2016, 13, 6741-6746.	0.4	16
130	Process state synchronization for mobility support in mobile cloud computing. , 2017, , .		15
131	More results on computation of topological indices of certain networks. International Journal of Networking and Virtual Organisations, 2017, 17, 46.	0.2	15
132	On Valency-Based Molecular Topological Descriptors of Subdivision Vertex-Edge Join of Three Graphs. Symmetry, 2020, 12, 1026.	1.1	15
133	Vertex PI v Topological Index of Titania Carbon Nanotubes TiO 2 (m,n). Applied Mathematics and Nonlinear Sciences, 2016, 1, 175-182.	0.9	15
134	Metric Dimension and R-Sets of Connected Graphs. Graphs and Combinatorics, 2011, 27, 585-591.	0.2	14
135	Hadoop Based Real-Time Intrusion Detection for High-Speed Networks. , 2016, , .		14
136	On the general sum-connectivity index and general Randić index of cacti. Journal of Inequalities and Applications, 2016, 2016, .	0.5	14
137	Value-Based Caching in Information-Centric Wireless Body Area Networks. Sensors, 2017, 17, 181.	2.1	14
138	Performance Analysis of Priority-Based IEEE 802.15.6 Protocol in Saturated Traffic Conditions. IEEE Access, 2018, 6, 66198-66209.	2.6	14
139	A Cooperative Heterogeneous Vehicular Clustering Mechanism for Road Traffic Management. International Journal of Parallel Programming, 2020, 48, 870-889.	1.1	14
140	A lightweight federated learning based privacy preserving B5G pandemic response network using unmanned aerial vehicles: A proof-of-concept. Computer Networks, 2022, 205, 108672.	3.2	14
141	Calculating degree-based topological indices of dominating David derived networks. Open Physics, 2017, 15, 1015-1021.	0.8	13
142	Amphiphilic p-sulfonatocalix[6]arene based self-assembled nanostructures for enhanced clarithromycin activity against resistant Streptococcus Pneumoniae. Colloids and Surfaces B: Biointerfaces, 2020, 186, 110676.	2.5	13
143	Mostar indices of SiO_2 nanostructures and melem chain nanostructures. International Journal of Quantum Chemistry, 2021, 121, e26520.	1.0	13
144	Design and development of lipid modified chitosan containing muco-adhesive self-emulsifying drug delivery systems for cefixime oral delivery. Chemistry and Physics of Lipids, 2021, 235, 105052.	1.5	13

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145	Dual Sink Efficient Balanced Energy Technique for Underwater Acoustic Sensor Networks. , 2016, , .		12
146	Extremal unicyclic and bicyclic graphs with respect to the F-index. AKCE International Journal of Graphs and Combinatorics, 2017, 14, 80-91.	0.4	12
147	On Metric Dimensions of Symmetric Graphs Obtained by Rooted Product. Mathematics, 2018, 6, 191.	1.1	12
148	Computing topological polynomials of mesh-derived networks. Discrete Mathematics, Algorithms and Applications, 2018, 10, 1850077.	0.4	12
149	Computing the Metric Dimension of Gear Graphs. Symmetry, 2018, 10, 209.	1.1	12
150	A blockchain-based decentralized energy management in a P2P trading system. , 2020, , .		12
151	On molecular topological descriptors of certain families of nanostar dendrimers. Eurasian Chemical Communications, 2020, 2, 680-687.	1.1	12
152	On topological properties of poly honeycomb networks. Periodica Mathematica Hungarica, 2016, 73, 100-119.	0.5	11
153	An adaptive and efficient buffer management scheme for resource-constrained delay tolerant networks. Wireless Networks, 2016, 22, 2189-2201.	2.0	11
154	On molecular topological properties of diamond-like networks. Canadian Journal of Chemistry, 2017, 95, 758-770.	0.6	11
155	Big data analytics of geosocial media for planning and real-time decisions. , 2017, , .		11
156	Enhancing Quality-of-Service Conditions Using a Cross-Layer Paradigm for Ad-Hoc Vehicular Communication. IEEE Access, 2017, 5, 12404-12416.	2.6	11
157	Total eccentricity and average eccentricity indices of some chemical graphs: Carbon graphite and copper oxide. Journal of Information and Optimization Sciences, 2020, 41, 905-924.	0.2	11
158	Novel One Time Signatures (NOTS): A Compact Post-Quantum Digital Signature Scheme. IEEE Access, 2020, 8, 15895-15906.	2.6	11
159	Hardware Architecture for Real-Time Computation of Image Component Feature Descriptors on a FPGA. International Journal of Distributed Sensor Networks, 2014, 10, 815378.	1.3	11
160	On the metric dimension of barcycentric subdivision of Cayley graphs $Cay(Z_{n}\oplus Z_{m})$. Miskolc Mathematical Notes, 2015, 16, 637-646.	0.3	11
161	A multi-hop angular routing protocol for wireless sensor networks. International Journal of Distributed Sensor Networks, 2016, 12, 155014771666294.	1.3	10
162	Degree-based topological indices of double graphs and strong double graphs. Discrete Mathematics, Algorithms and Applications, 2017, 09, 1750066.	0.4	10

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163	On the bounds of degree-based topological indices of the Cartesian product of F-sum of connected graphs. Journal of Inequalities and Applications, 2017, 2017, 305.	0.5	10
164	A Quantitative Risk Assessment Model Involving Frequency and Threat Degree under Line-of-Business Services for Infrastructure of Emerging Sensor Networks. Sensors, 2017, 17, 642.	2.1	10
165	A privacyâ€preserving framework for smart contextâ€aware healthcare applications. Transactions on Emerging Telecommunications Technologies, 2019, , e3634.	2.6	10
166	The eccentric based Zagreb indices of carbon graphite. Journal of Discrete Mathematical Sciences and Cryptography, 2020, 23, 1121-1137.	0.5	10
167	On the Eccentric Connectivity Polynomial of â„±-Sum of Connected Graphs. Complexity, 2020, 2020, 1-9.	0.9	10
168	Topological indices of polyhydroxybutyrate and polycaprolactone. Journal of Information and Optimization Sciences, 2020, 41, 1025-1041.	0.2	10
169	On topological indices of honeycomb networks and Graphene networks. Hacettepe Journal of Mathematics and Statistics, 2017, 4, .	0.3	10
170	Pakistamide C, a new sphingolipid from Abutilon pakistanicum. Revista Brasileira De Farmacognosia, 2014, 24, 277-281.	0.6	9
171	Automatic Modulation Classification for Low SNR Digital Signal in Frequency-Selective Fading Environments. Wireless Personal Communications, 2015, 84, 1891-1906.	1.8	9
172	Computing Topological Indices and Polynomials for Line Graphs. Mathematics, 2018, 6, 137.	1.1	9
173	Synthesis of long-tail nonionic surfactants and their investigation for vesicle formation, drug entrapment, and biocompatibility. Journal of Liposome Research, 2020, 30, 255-262.	1.5	9
174	Efficient Data Trading and Storage in Internet of Vehicles using Consortium Blockchain. , 2020, , .		9
175	Electricity Theft Detection using Pipeline in Machine Learning. , 2020, , .		9
176	Topological properties of face-centred cubic lattice. , 0, , 1-13.	0.3	9
177	Expected Values of Some Molecular Descriptors in Random Cyclooctane Chains. Symmetry, 2021, 13, 2197.	1.1	9
178	Vicarin, a new isoflavone from <i>Eremostachys vicaryi</i>. Journal of Asian Natural Products Research, 2012, 14, 293-296.	0.7	8
179	iA-MAC: Improved Adaptive Medium Access Control protocol for Wireless Body Area Networks. , 2014, , .		8
180	A novel mechanism for restoring actor connected coverage in wireless sensor and actor networks. , 2015, , .		8

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181	On the metric dimension of barycentric subdivision of Cayley graphs. Acta Mathematicae Applicatae Sinica, 2016, 32, 1067-1072.	0.4	8
182	A novel framework for G/M/1 queuing system based on scheduling-cum-polling mechanism to analyze multiple classes of self-similar and LRD traffic. Wireless Networks, 2016, 22, 1269-1284.	2.0	8
183	Preliminary investigation of novel tetra-tailed macrocycle amphiphile based nano-vesicles for amphotericin B improved oral pharmacokinetics. Artificial Cells, Nanomedicine and Biotechnology, 2018, 46, 1204-1214.	1.9	8
184	On the PAPR Reduction: A Novel Filtering Based Hadamard Transform Precoded Uplink MC-NOMA Scheme for 5G Cellular Networks. , 2018, , .		8
185	Computing Eccentricity-Based Topological Indices of 2-Power Interconnection Networks. Journal of Chemistry, 2020, 2020, 1-7.	0.9	8
186	On M-polynomial-based topological descriptors of chemical crystal structures and their applications. European Physical Journal Plus, 2020, 135, 1.	1.2	8
187	An intelligent content caching protocol for connected vehicles. Transactions on Emerging Telecommunications Technologies, 2021, 32, e4231.	2.6	8
188	Treating Class Imbalance in Non-Technical Loss Detection: An Exploratory Analysis of a Real Dataset. IEEE Access, 2021, 9, 98928-98938.	2.6	8
189	Model and Placement Optimization of a Sky Surveillance Visual Sensor Network. , 2011, , .		7
190	Eremosides Aâ€‰â€"â€‰C, New Iridoid Glucosides from <i>Eremostachys loasifolia</i>. Helvetica Chimica Acta, 2012, 95, 586-593.	1.0	7
191	Distance-based topological polynomials and indices of friendship graphs. SpringerPlus, 2016, 5, 1563.	1.2	7
192	On degree-based topological descriptors of strong product graphs. Canadian Journal of Chemistry, 2016, 94, 559-565.	0.6	7
193	Sharp Bounds for the General Sum-Connectivity Indices of Transformation Graphs. Discrete Dynamics in Nature and Society, 2017, 2017, 1-7.	0.5	7
194	Exploiting Energy Efficient Routing protocols for Void Hole Alleviation in IoT enabled Underwater WSN. , 2019, , .		7
195	Molecular descriptors of discrete dynamical system in fractal and Cayley tree type dendrimers. Journal of Applied Mathematics and Computing, 2019, 61, 57-72.	1.2	7
196	Impact of Node Deployment and Routing for Protection of Critical Infrastructures. IEEE Access, 2019, 7, 11502-11514.	2.6	7
197	Cognitive Sensors Based on Ridge Phase-Smoothing Localization and Multiregional Histograms of Oriented Gradients. IEEE Transactions on Emerging Topics in Computing, 2019, 7, 123-134.	3.2	7
198	An IoT-based smart healthcare system to detect dysphonia. Neural Computing and Applications, 2022, 34, 11255-11265.	3.2	7

#	Article	IF	Citations
199	Molecular topological invariants of certain chemical networks. Main Group Metal Chemistry, 2021, 44, 141-149.	0.6	7
200	Depth-Based Energy-Balanced Hybrid Routing Protocol for Underwater WSNs. , 2015, , .		6
201	Design Exploration of a Multi-camera Dome for Sky Monitoring. , 2016, , .		6
202	Exploration of preprocessing architectures for field-programmable gate array-based thermal-visual smart camera. Journal of Electronic Imaging, 2016, 25, 041006.	0.5	6
203	Kinetic modeling of biomass gasification in a micro fluidized bed. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2017, 39, 643-648.	1.2	6
204	Fog-assisted Congestion Avoidance Scheme for Internet of Vehicles. , 2018, , .		6
205	Digital Hadith authentication: Recent advances, open challenges, and future directions. Transactions on Emerging Telecommunications Technologies, 2022, 33, e3977.	2.6	6
206	Vertex-Edge-Degree-Based Topological Properties for Hex-Derived Networks. Complexity, 2022, 2022, 1-13.	0.9	6
207	Complexity Analysis of Vision Functions for Comparison of Wireless Smart Cameras. International Journal of Distributed Sensor Networks, 2014, 10, 710685.	1.3	5
208	Computing topological indices of Sudoku graphs. Journal of Applied Mathematics and Computing, 2017, 55, 99-117.	1.2	5
209	Software-Defined Industrial Internet of Things. Wireless Communications and Mobile Computing, 2019, 2019, 1-2.	0.8	5
210	Countering Statistical Attacks in Cloud-Based Searchable Encryption. International Journal of Parallel Programming, 2020, 48, 470-495.	1.1	5
211	Comparison of bacterial communities in gliadin-degraded sourdough (Khamir) sample and non-degraded sample. Journal of Food Science and Technology, 2020, 57, 375-380.	1.4	5
212	An Incentive Scheme for VANETs based on Traffic Event Validation using Blockchain. , 2020, , .		5
213	On the Metric Dimension of Arithmetic Graph of a Composite Number. Symmetry, 2020, 12, 607.	1.1	5
214	Graph Indices for Cartesian Product of F-sum of Connected Graphs. Combinatorial Chemistry and High Throughput Screening, 2021, 24, .	0.6	5
215	Ground-to-UAV Communication Network: Stochastic Geometry-based Performance Analysis. , 2021, , .		5
216	On topological properties of hexagonal and silicate networks. Hacettepe Journal of Mathematics and Statistics, 2017, 48, .	0.3	5

#	Article	IF	Citations
217	On Wiener Polarity Index and Wiener Index of Certain Triangular Networks. Journal of Chemistry, 2021, 2021, 1-20.	0.9	5
218	Structure determination of Aervins A–D, new coumaronochromone analogues from *Aerva persica,* by 1D and 2D NMR spectroscopy. Magnetic Resonance in Chemistry, 2009, 47, 532-536.	1.1	4
219	Flavonoid Constituents of *Pistacia integerrima*. Natural Product Communications, 2012, 7, 1934578X1200700.	0.2	4
220	Design and Analysis of an Efficient Energy Algorithm in Wireless Social Sensor Networks. Sensors, 2017, 17, 2166.	2.1	4
221	On the metric dimension and diameter of circulant graphs with three jumps. Discrete Mathematics, Algorithms and Applications, 2018, 10, 1850008.	0.4	4
222	On the Degree-Based Topological Indices of the Tickysim SpiNNaker Model. Axioms, 2018, 7, 73.	0.9	4
223	A hybrid precoding–and filtering–based uplink MC–NOMA scheme for 5G cellular networks with reduced PAPR. Transactions on Emerging Telecommunications Technologies, 2018, 29, e3501.	2.6	4
224	A Blockchain based Privacy-Preserving System for Electric Vehicles through Local Communication. , 2020, , .		4
225	DE-RUSBoost: An Efficient Electricity Theft Detection Scheme with Additive Communication Layer. , 2020, , .		4
226	Synthesis and Characterization of Sulfanilamide–Based Nonionic Surfactants and Evaluation of Their Nano–Vesicular Drug Loading Application. Journal of Surfactants and Detergents, 2020, 23, 973-980.	1.0	4
227	Towards a Low Complexity Scheme for Medical Images in Scalable Video Coding. IEEE Access, 2020, 8, 41439-41451.	2.6	4
228	On Szeged–type indices of titanium oxide TiO_2 nanotubes. International Journal of Quantum Chemistry, 2021, 121, e26669.	1.0	4
229	Computation of Topological Indices of NEPS of Graphs. Complexity, 2021, 2021, 1-6.	0.9	4
230	Metric Dimension and Exchange Property for Resolving Sets in Rotationally-Symmetric Graphs. Applied Mathematics and Information Sciences, 2014, 8, 1665-1674.	0.7	4
231	About the Randić Connectivity, Modify Randić Connectivity and Sum-connectivity Indices of Titania Nanotubes TiO2(m,n). Acta Chimica Slovenica, 2017, 64, 256-260.	0.2	4
232	Topological aspects of extended Sierpiński structures with help of underlying networks. Journal of King Saud University - Science, 2022, 34, 102126.	1.6	4
233	Structural determination of kochiosides A–C, new steroidal glucosides from *Kochia prostrata*, by 1D and 2D NMR spectroscopy. Magnetic Resonance in Chemistry, 2007, 45, 785-788.	1.1	3
234	New Sphingolipids from Abutilon pakistanicum. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2012, 67, 433-437.	0.3	3

#	Article	IF	Citations
235	Cost optimization of a sky surveillance visual sensor network. , 2012, , .		3
236	Detecting and coding region of interests in bi-level images for data reduction in Wireless Visual Sensor Network. , 2012, , .		3
237	Performance analysis of Automatic Modulation Classification in multipath fading environment. , 2014, , .		3
238	High-Speed Network Traffic Analysis: Detecting VoIP Calls in Secure Big Data Streaming. , 2016, , .		3
239	The eccentric version of atom-bond connectivity index of tetra sheet networks. Discrete Mathematics, Algorithms and Applications, 2018, 10, 1850065.	0.4	3
240	Acridineâ€Thiosemicarbazonesâ€Stabilized Silver Nanoparticles as a Selective Sensor for Copper(II)â€Ion in Tap Water. ChemistrySelect, 2019, 4, 8757-8763.	0.7	3
241	A Low PAPR Universal Filtered Multi-Carrier System for 5G Machine Type Communications. , 2019, , .		3
242	Buffer Occupancy Based DF and AF Relaying in Nakagami-m Fading Channels. , 2019, , .		3
243	Outage Probability of Hybrid Decode-Amplify-Forward Relaying Protocol for Buffer-Aided Relays. , 2019, , .		3
244	A Joint SLM and Precoding Based PAPR Reduction Scheme for 5G UFMC Cellular Networks. , 2020, , .		3
245	Topological Properties of Para-Line Graphs for Chemical Networks. Polycyclic Aromatic Compounds, 2020, , 1-17.	1.4	3
246	Sharp bounds on certain degree based topological indices for generalized SierpiÅ„ski graphs. Chaos, Solitons and Fractals, 2020, 132, 109608.	2.5	3
247	In-vitro and in-silico antioxidant, Î±-glucosidase inhibitory potentials of abutilins C and D, new flavonoide glycosides from Abutilon pakistanicum. Arabian Journal of Chemistry, 2021, 14, 103021.	2.3	3
248	A Deep Learning-based System for Detecting COVID-19 Patients. , 2021, , .		3
249	Implicit Feedback-based Group Recommender System for Internet of Things Applications. , 2020, , .		3
250	Sharp bounds for the general RandiÄ‡ index of transformation graphs. Journal of Intelligent and Fuzzy Systems, 2020, 39, 7787-7794.	0.8	3
251	Adversarial Learning-based Bias Mitigation for Fatigue Driving Detection in Fair-Intelligent IoV. , 2020, , .		3
252	Generalized overlapping digit patterns for multi-dimensional sub-expression sharing. , 2010, , .		2

#	Article	IF	Citations
253	The influence of alkaline catalysts on combustion of coal particles. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2018, 40, 549-552.	1.2	2
254	On some bounds of the topological indices of generalized SierpiÅ„ski and extended SierpiÅ„ski graphs. Journal of Inequalities and Applications, 2019, 2019, .	0.5	2
255	Robustness Optimization of Scale-Free IoT Networks. , 2020, , .		2
256	A Robust Consistency Model of Crowd Workers in Text Labeling Tasks. IEEE Access, 2020, 8, 168381-168393.	2.6	2
257	Resource Optimization-Based Software Risk Reduction Model for Large-Scale Application Development. Sustainability, 2021, 13, 2602.	1.6	2
258	Sharp Bounds for the Inverse Sum Indeg Index of Graph Operations. Mathematical Problems in Engineering, 2021, 2021, 1-11.	0.6	2
259	Modeling and Verification of a Heterogeneous Sky Surveillance Visual Sensor Network. International Journal of Distributed Sensor Networks, 2013, 9, 490489.	1.3	2
260	On Extremal Graphs of Degree Distance Index by Using Edge-Grafting Transformations Method. Combinatorial Chemistry and High Throughput Screening, 2022, 25, 560-567.	0.6	2
261	Eccentricity based topological indices of siloxane and POPAM dendrimers. Main Group Metal Chemistry, 2020, 43, 92-98.	0.6	2
262	Eccentricity-Based Topological Invariants of Dominating David-Derived Networks. Journal of Chemistry, 2021, 2021, 1-10.	0.9	2
263	Performance analysis of mixed polling schemes with multiple classes of self-similar traffic input to build comprehensive SLAs. , 2013, , .		1
264	Disjoint Key Establishment Protocol for Wireless Sensor and Actor Networks. Journal of Sensors, 2016, 2016, 1-15.	0.6	1
265	A Framework and Mathematical Modeling for the Vehicular Delay Tolerant Network Routing. Mobile Information Systems, 2016, 2016, 1-14.	0.4	1
266	Energy Efficient and Reliable Data Gathering in Underwater WSNs. , 2016, , .		1
267	Techno-economic study of coal pyrolysis for production of chemicals using a high-pressure fluidized bed. Energy Sources, Part B: Economics, Planning and Policy, 2017, 12, 654-658.	1.8	1
268	On the Wiener index and variants of the Szeged index of single-walled titania nanotubes $TiO_2(m,n)$. Canadian Journal of Chemistry, 2017, 95, 68-86.	0.6	1
269	Background modelling, analysis and implementation for thermographic images. , 2017, , .		1
270	Handover Based IMS Registration Scheme for Next Generation Mobile Networks. Wireless Communications and Mobile Computing, 2017, 2017, 1-15.	0.8	1

#	ARTICLE	IF	CITATIONS
271	Synthesis of Biocompatible Double‐Tailed Nonionic Surfactants and Their Investigation for Niosomal Drug‐Loading Applications. Journal of Surfactants and Detergents, 2019, 22, 771-778.	1.0	1
272	RTRD: Real-Time Route Discovery for Urban Scenarios Using Internet of Things. , 2019, , .		1
273	Resolvability in Subdivision of Circulant Networks. <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="M1"><mml:msub><mml:mrow><mml:mi>C</mml:mi></mml:mrow><mml:mrow><mml:mi>n</mml:mi></mml:mrow></mml:msub><mml:mfenced open="[" close="]" separators="|"><mml:mrow><mml:mn>1</mml:mn><mml:mo>,</mml:mo><mml:mi>k</mml:mi></mml:mrow></mml:mfenced></mml:math>. Discrete Dynamics in Nature and Society, 2020, 2020, 1-11.	0.5	1
274	Computing Molecular Topological Descriptors of Polymeric Networks Modeled by Sierpinski Networks. Polycyclic Aromatic Compounds, 2020, , 1-20.	1.4	1
275	Electric Load Forecasting using EEMD and Machine Learning Techniques. , 2020, , .		1
276	Conditional Anonymity enabled Blockchain-based Ad Dissemination in Vehicular Ad-hoc Network. , 2020, , .		1
277	A novel cooperative link selection mechanism for enhancing the robustness in scale-free IoT networks. , 2020, , .		1
278	The reverse Zagreb indices of F-sum of graphs. Journal of Discrete Mathematical Sciences and Cryptography, 2022, 25, 1885-1897.	0.5	1
279	Characterization of Extremal Unicyclic Graphs Using F-Coindex. Complexity, 2021, 2021, 1-9.	0.9	1
280	Certain Topological Indices of Titania Carbon Nanotubes TiO2(m, n). Journal of Computational and Theoretical Nanoscience, 2016, 13, 7324-7328.	0.4	1
281	Properties of Total Transformation Graphs for General Sum-Connectivity Index. Complexity, 2021, 2021, 1-6.	0.9	1
282	Intelligence Partitioning as a Method for Architectural Exploration of Wireless SensorNode. , 2016, , .		0
283	A Joint Filtering and Precoding Based Uplink MC-NOMA. , 2018, , .		0
284	Total irregularity strength for product of two paths. AKCE International Journal of Graphs and Combinatorics, 2020, 17, 184-197.	0.4	0
285	TFPMS: Transactions Filtering Pattern Matching Scheme for Vehicular Networks based on Blockchain. , 2020, , .		0
286	Optimal Graphs in the Enhanced Mesh Networks. Journal of Mathematics, 2020, 2020, 1-15.	0.5	0
287	Case Study of Direct Communication based Solar Power Systems in Sub-Saharan Africa for Levelled Energy Cost using Blockchain. , 2020, , .		0
288	On topological properties of boron and boron‐α± nanotubes. Mathematical Methods in the Applied Sciences, 2020, , .	1.2	0

#	Article	IF	Citations
289	Deep Learning-Based Approach for Detecting Trajectory Modifications of Cassini-Huygens Spacecraft. IEEE Access, 2021, 9, 39111-39125.	2.6	0
290	Investigation of a Single Tail Lysine Rich Peptide Amphiphile with an Ultra Short Peptide Head for its Nano Scale Self-assembly and Drug Loading Potential. Journal of Cluster Science, 2022, 33, 151-161.	1.7	0
291	Wiener polarity index and related molecular topological descriptors of titanium oxide nanotubes. International Journal of Quantum Chemistry, 2021, 121, e26627.	1.0	0
292	Green synthesis of hesperidin coated silver nanoparticles for colorimetric detection of gentamicin sulfate in real samples. Pakistan Journal of Pharmaceutical Sciences, 2020, 33, 2667-2677.	0.2	0
293	The Weighted Mostar Invariants of Phthalocyanines, Triazine-Based and Nanostar Dendrimers. Polycyclic Aromatic Compounds, 2023, 43, 772-789.	1.4	0