Wali Ullah Khan

List of Publications by Year
in descending order

60 papers	1,595 citations	236612 25 h-index	329751 37 g-index
61 all docs	61 docs citations	61 times ranked	696 citing authors

#	ARTICLE	IF	CITATIONS
1	Physical Layer Security of Cognitive Ambient Backscatter Communications for Green Internet-of-Things. IEEE Transactions on Green Communications and Networking, 2021, 5, 1066-1076.	3.5	93
2	Joint Spectral and Energy Efficiency Optimization for Downlink NOMA Networks. IEEE Transactions on Cognitive Communications and Networking, 2020, 6, 645-656.	4.9	80
3	Spectral Efficiency Optimization for Next Generation NOMA-Enabled IoT Networks. IEEE Transactions on Vehicular Technology, 2020, 69, 15284-15297.	3.9	76
4	Energy-Efficient Resource Allocation for 6G Backscatter-Enabled NOMA IoV Networks. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 9775-9785.	4.7	67
5	Efficient power allocation for NOMA-enabled IoT networks in 6G era. Physical Communication, 2020, 39, 101043.	1.2	64
6	Backscatter-Enabled Efficient V2X Communication With Non-Orthogonal Multiple Access. IEEE Transactions on Vehicular Technology, 2021, 70, 1724-1735.	3.9	62
7	Backscatter-Enabled NOMA for Future 6G Systems: A New Optimization Framework Under Imperfect SIC. IEEE Communications Letters, 2021, 25, 1669-1672.	2.5	61
8	Efficient power allocation in downlink multiâ€cell multiâ€user NOMA networks. IET Communications, 2019, 13, 396-402.	1.5	53
9	RL/DRL Meets Vehicular Task Offloading Using Edge and Vehicular Cloudlet: A Survey. IEEE Internet of Things Journal, 2022, 9, 8315-8338.	5.5	53
10	NOMA-Enabled Backscatter Communications for Green Transportation in Automotive-Industry 5.0. IEEE Transactions on Industrial Informatics, 2022, 18, 7862-7874.	7.2	52
11	Reinforcement Learning in Blockchain-Enabled IIoT Networks: A Survey of Recent Advances and Open Challenges. Sustainability, 2020, 12, 5161.	1.6	48
12	NOMA-Enabled Backscatter Communications: Toward Battery-Free IoT Networks. IEEE Internet of Things Magazine, 2020, 3, 95-101.	2.0	44
13	Efficient Power-Splitting and Resource Allocation for Cellular V2X Communications. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 3547-3556.	4.7	40
14	Task Offloading and Resource Allocation for IoV Using 5G NR-V2X Communication. IEEE Internet of Things Journal, 2022, 9, 10397-10410.	5.5	40
15	Efficient Algorithms for E-Healthcare to Solve Multiobject Fuse Detection Problem. Journal of Healthcare Engineering, 2021, 2021, 1-16.	1.1	38
16	Joint Power Allocation and Link Selection for Multi-Carrier Buffer Aided Relay Network. Electronics (Switzerland), 2019, 8, 686.	1.8	37
17	NOMA-Enabled Optimization Framework for Next-Generation Small-Cell IoV Networks Under Imperfect SIC Decoding. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 22442-22451.	4.7	35
18	Diagnosis of Diabetic Retinopathy through Retinal Fundus Images and 3D Convolutional Neural Networks with Limited Number of Samples. Wireless Communications and Mobile Computing, 2021, 2021, 1-15.	0.8	34

#	Article	IF	Citations
19	Optimal power allocation for NOMA-enabled D2D communication with imperfect SIC decoding. Physical Communication, 2021, 46, 101296.	1.2	32
20	Learning-Based Resource Allocation for Backscatter-Aided Vehicular Networks. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 19676-19690.	4.7	32
21	Energy Efficiency Optimization for Backscatter Enhanced NOMA Cooperative V2X Communications Under Imperfect CSI. IEEE Transactions on Intelligent Transportation Systems, 2023, 24, 12961-12972.	4.7	31
22	Multiobjective Optimization of Uplink NOMA-Enabled Vehicle-to-Infrastructure Communication. IEEE Access, 2020, 8, 84467-84478.	2.6	30
23	Joint Spectrum and Energy Optimization of NOMA-Enabled Small-Cell Networks With QoS Guarantee. IEEE Transactions on Vehicular Technology, 2021, 70, 8337-8342.	3.9	30
24	Joint optimization of<scp>NOMA</scp>â€enabled backscatter communications for beyond<scp>5G IoT</scp>networks. Internet Technology Letters, 2021, 4, e265.	1.4	28
25	Energy efficiency maximization for beyond 5G NOMA-enabled heterogeneous networks. Peer-to-Peer Networking and Applications, 2021, 14, 3250-3264.	2.6	28
26	Secure Backscatter Communications in Multi-Cell NOMA Networks: Enabling Link Security for Massive IoT Networks. , 2020, , .		27
27	Towards Intelligent IoT Networks: Reinforcement Learning for Reliable Backscatter Communications. , 2019, , .		24
28	Energy Efficient UAV Flight Path Model for Cluster Head Selection in Next-Generation Wireless Sensor Networks. Sensors, 2021, 21, 8445.	2.1	23
29	Efficient power allocation with individual QoS guarantees in future small-cell networks. AEU - International Journal of Electronics and Communications, 2019, 105, 36-41.	1.7	22
30	Power Allocation and User Assignment Scheme for beyond 5G Heterogeneous Networks. Wireless Communications and Mobile Computing, 2019, 2019, 1-11.	0.8	22
31	Secrecy Analysis and Learning-Based Optimization of Cooperative NOMA SWIPT Systems. , 2019, , .		20
32	Reduced-Complexity LDPC Decoding for Next-Generation IoT Networks. Wireless Communications and Mobile Computing, 2021, 2021, 1-10.	0.8	20
33	Efficient Power Allocation for Multi-Cell Uplink NOMA Network. , 2019, , .		19
34	Fair power allocation in cooperative cognitive systems under NOMA transmission for future IoT networks. AEJ - Alexandria Engineering Journal, 2022, 61, 575-583.	3.4	19
35	Maximizing physical layer security in relayâ€assisted multicarrier nonorthogonal multiple access transmission. Internet Technology Letters, 2019, 2, e76.	1.4	18
36	Reinforcement Learning for Scalable and Reliable Power Allocation in SDN-based Backscatter Heterogeneous Network. , 2020, , .		18

#	Article	IF	Citations
37	Joint User Pairing, Channel Assignment and Power Allocation in NOMA based CR Systems. Applied Sciences (Switzerland), 2019, 9, 4282.	1.3	16
38	Security Analysis of Multi-Antenna NOMA Networks Under I/Q Imbalance. Electronics (Switzerland), 2019, 8, 1327.	1.8	15
39	An Enhanced Spectrum Reservation Framework for Heterogeneous Users in CR-Enabled IoT Networks. IEEE Wireless Communications Letters, 2021, 10, 2504-2508.	3.2	15
40	Optimizing Resource Allocation for 6G NOMA-Enabled Cooperative Vehicular Networks. IEEE Open Journal of Intelligent Transportation Systems, 2021, 2, 269-281.	2.6	14
41	Efficient Resource Management for Sum Capacity Maximization in 5G NOMA Systems. Applied System Innovation, 2019, 2, 27.	2.7	13
42	Federated learning and next generation wireless communications: A survey on bidirectional relationship. Transactions on Emerging Telecommunications Technologies, 2022, 33, .	2.6	13
43	Joint Design of Improved Spectrum and Energy Efficiency With Backscatter NOMA for IoT. IEEE Access, 2022, 10, 7504-7519.	2.6	11
44	Joint optimization for secure ambient backscatter communication in NOMA-enabled IoT networks. Digital Communications and Networks, 2023, 9, 264-269.	2.7	10
45	A survey on vehicular task offloading: Classification, issues, and challenges. Journal of King Saud University - Computer and Information Sciences, 2022, 34, 4135-4162.	2.7	9
46	LSTM-Based Distributed Conditional Generative Adversarial Network for Data-Driven 5G-Enabled Maritime UAV Communications. IEEE Transactions on Intelligent Transportation Systems, 2022, , 1-16.	4.7	9
47	Artificial intelligence techniques for rate maximization in interference channels. Physical Communication, 2021, 47, 101294.	1.2	7
48	Resource allocation of 5G network by exploiting particle swarm optimization. Iran Journal of Computer Science, 2021, 4, 211-219.	1.8	6
49	Multi-tone Carrier Backscatter Communications for Massive IoT Networks. Internet of Things, 2021, , 39-50.	1.3	5
50	TEZEM: A new energy-efficient routing protocol for next-generation wireless sensor networks. International Journal of Distributed Sensor Networks, 2022, 18, 155013292211072.	1.3	5
51	Secure backscatterâ€enabled <scp>NOMA</scp> system design in <scp>6G</scp> era. Internet Technology Letters, 2021, 4, e307.	1.4	4
52	Time Slot Management in Backscatter Systems for Large-Scale IoT Networks. Internet of Things, 2021, , 51-65.	1.3	4
53	On Efficient DCT Type-I Based Low Complexity Channel Estimation for Uplink NB-IoT Systems. IEEE Access, 2021, 9, 129756-129770.	2.6	3
54	Uplink IoT Networks: Time-Division Priority-Based Non-Orthogonal Multiple Access Approach. , 2021, , .		3

#	Article	IF	Citations
55	NOMA-enabled Wireless Powered Backscatter Communications for Secure and Green IoT Networks. Internet of Things, 2021, , 103-131.	1.3	3
56	Blockchain-Based Trust Verification and Streaming Service Awareness for Big Data-Driven 5G and Beyond Vehicle-to-Everything (V2X) Communication. Wireless Communications and Mobile Computing, 2022, 2022, 1-13.	0.8	3
57	Resource Optimization Framework for Physical Layer Security of Dual-Hop Multi-Carrier Decode and Forward Relay Networks. IEEE Open Journal of Antennas and Propagation, 2021, 2, 634-645.	2.5	2
58	On Reliable Key Performance Indicators in Cognitive Radio Networks. IEEE Networking Letters, 2022, 4, 11-15.	1.5	2
59	Driverâ€™s Face Pose Estimation Using Fine-Grained Wi-Fi Signals for Next-Generation Internet of Vehicles. Wireless Communications and Mobile Computing, 2022, 2022, 1-18.	0.8	2
60	A Cost-Effective Identity-Based Signature Scheme for Vehicular Ad Hoc Network Using Hyperelliptic Curve Cryptography. Wireless Communications and Mobile Computing, 2022, 2022, 1-8.	0.8	1