

# Wali Ullah Khan

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Joint optimization for secure ambient backscatter communication in NOMA-enabled IoT networks. Digital Communications and Networks, 2023, 9, 264-269.	2.7	10
2	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
3	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
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	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
6	Learning-Based Resource Allocation for Backscatter-Aided Vehicular Networks. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 19676-19690.	4.7	32
7	On Reliable Key Performance Indicators in Cognitive Radio Networks. IEEE Networking Letters, 2022, 4, 11-15.	1.5	2
8	Task Offloading and Resource Allocation for IoV Using 5G NR-V2X Communication. IEEE Internet of Things Journal, 2022, 9, 10397-10410.	5.5	40
9	Joint Design of Improved Spectrum and Energy Efficiency With Backscatter NOMA for IoT. IEEE Access, 2022, 10, 7504-7519.	2.6	11
10	Federated learning and next generation wireless communications: A survey on bidirectional relationship. Transactions on Emerging Telecommunications Technologies, 2022, 33, .	2.6	13
11	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
12	NOMA-Enabled Backscatter Communications for Green Transportation in Automotive-Industry 5.0. IEEE Transactions on Industrial Informatics, 2022, 18, 7862-7874.	7.2	52
13	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
14	Driver'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
15	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
16	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
17	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
18	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

#	ARTICLE	IF	CITATIONS
19	Efficient Power-Splitting and Resource Allocation for Cellular V2X Communications. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 3547-3556.	4.7	40
20	Joint optimization of NOMA-enabled backscatter communications for beyond 5G IoT networks. Internet Technology Letters, 2021, 4, e265.	1.4	28
21	An Enhanced Spectrum Reservation Framework for Heterogeneous Users in CR-Enabled IoT Networks. IEEE Wireless Communications Letters, 2021, 10, 2504-2508.	3.2	15
22	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
23	On Efficient DCT Type-I Based Low Complexity Channel Estimation for Uplink NB-IoT Systems. IEEE Access, 2021, 9, 129756-129770.	2.6	3
24	Backscatter-Enabled Efficient V2X Communication With Non-Orthogonal Multiple Access. IEEE Transactions on Vehicular Technology, 2021, 70, 1724-1735.	3.9	62
25	Efficient Algorithms for E-Healthcare to Solve Multiobject Fuse Detection Problem. Journal of Healthcare Engineering, 2021, 2021, 1-16.	1.1	38
26	Resource allocation of 5G network by exploiting particle swarm optimization. Iran Journal of Computer Science, 2021, 4, 211-219.	1.8	6
27	Backscatter-Enabled NOMA for Future 6G Systems: A New Optimization Framework Under Imperfect SIC. IEEE Communications Letters, 2021, 25, 1669-1672.	2.5	61
28	Uplink IoT Networks: Time-Division Priority-Based Non-Orthogonal Multiple Access Approach. , 2021, , .		3
29	Optimal power allocation for NOMA-enabled D2D communication with imperfect SIC decoding. Physical Communication, 2021, 46, 101296.	1.2	32
30	Energy efficiency maximization for beyond 5G NOMA-enabled heterogeneous networks. Peer-to-Peer Networking and Applications, 2021, 14, 3250-3264.	2.6	28
31	Secure backscatter-enabled NOMA system design in 6G era. Internet Technology Letters, 2021, 4, e307.	1.4	4
32	Artificial intelligence techniques for rate maximization in interference channels. Physical Communication, 2021, 47, 101294.	1.2	7
33	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
34	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
35	Reduced-Complexity LDPC Decoding for Next-Generation IoT Networks. Wireless Communications and Mobile Computing, 2021, 2021, 1-10.	0.8	20
36	Optimizing Resource Allocation for 6G NOMA-Enabled Cooperative Vehicular Networks. IEEE Open Journal of Intelligent Transportation Systems, 2021, 2, 269-281.	2.6	14

#	ARTICLE	IF	CITATIONS
37	NOMA-enabled Wireless Powered Backscatter Communications for Secure and Green IoT Networks. Internet of Things, 2021, , 103-131.	1.3	3
38	Multi-tone Carrier Backscatter Communications for Massive IoT Networks. Internet of Things, 2021, , 39-50.	1.3	5
39	Time Slot Management in Backscatter Systems for Large-Scale IoT Networks. Internet of Things, 2021, , 51-65.	1.3	4
40	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
41	Energy Efficient UAV Flight Path Model for Cluster Head Selection in Next-Generation Wireless Sensor Networks. Sensors, 2021, 21, 8445.	2.1	23
42	Joint Spectral and Energy Efficiency Optimization for Downlink NOMA Networks. IEEE Transactions on Cognitive Communications and Networking, 2020, 6, 645-656.	4.9	80
43	Secure Backscatter Communications in Multi-Cell NOMA Networks: Enabling Link Security for Massive IoT Networks. , 2020, , .		27
44	Reinforcement Learning for Scalable and Reliable Power Allocation in SDN-based Backscatter Heterogeneous Network. , 2020, , .		18
45	Multiobjective Optimization of Uplink NOMA-Enabled Vehicle-to-Infrastructure Communication. IEEE Access, 2020, 8, 84467-84478.	2.6	30
46	Reinforcement Learning in Blockchain-Enabled IIoT Networks: A Survey of Recent Advances and Open Challenges. Sustainability, 2020, 12, 5161.	1.6	48
47	Efficient power allocation for NOMA-enabled IoT networks in 6G era. Physical Communication, 2020, 39, 101043.	1.2	64
48	NOMA-Enabled Backscatter Communications: Toward Battery-Free IoT Networks. IEEE Internet of Things Magazine, 2020, 3, 95-101.	2.0	44
49	Spectral Efficiency Optimization for Next Generation NOMA-Enabled IoT Networks. IEEE Transactions on Vehicular Technology, 2020, 69, 15284-15297.	3.9	76
50	Efficient Power Allocation for Multi-Cell Uplink NOMA Network. , 2019, , .		19
51	Secrecy Analysis and Learning-Based Optimization of Cooperative NOMA SWIPT Systems. , 2019, , .		20
52	Joint Power Allocation and Link Selection for Multi-Carrier Buffer Aided Relay Network. Electronics (Switzerland), 2019, 8, 686.	1.8	37
53	Efficient Resource Management for Sum Capacity Maximization in 5G NOMA Systems. Applied System Innovation, 2019, 2, 27.	2.7	13
54	Efficient power allocation in downlink multi-cell multi-user NOMA networks. IET Communications, 2019, 13, 396-402.	1.5	53

#	ARTICLE	IF	CITATIONS
55	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
56	Security Analysis of Multi-Antenna NOMA Networks Under I/Q Imbalance. Electronics (Switzerland), 2019, 8, 1327.	1.8	15
57	Towards Intelligent IoT Networks: Reinforcement Learning for Reliable Backscatter Communications. , 2019, , .		24
58	Joint User Pairing, Channel Assignment and Power Allocation in NOMA based CR Systems. Applied Sciences (Switzerland), 2019, 9, 4282.	1.3	16
59	Power Allocation and User Assignment Scheme for beyond 5G Heterogeneous Networks. Wireless Communications and Mobile Computing, 2019, 2019, 1-11.	0.8	22
60	Maximizing physical layer security in relay-assisted multicarrier nonorthogonal multiple access transmission. Internet Technology Letters, 2019, 2, e76.	1.4	18