Shunqing Zhang

List of Publications by Year
in descending order

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69 papers	2,516 citations	516710 16 h-index	214800 47 g-index
69 all docs	69 docs citations	69 times ranked	2481 citing authors

#	Article	IF	Citations
1	Energy-Efficient NOMA Multicasting System for Beyond 5G Cellular V2X Communications With Imperfect CSI. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 10721-10735.	8.0	20
2	Slicing Framework for Service Level Agreement Guarantee in Heterogeneous Networksâ€”A Deep Reinforcement Learning Approach. IEEE Wireless Communications Letters, 2022, 11, 193-197.	5.0	5
3	Distributed Online Optimization of Edge Computing With Mixed Power Supply of Renewable Energy and Smart Grid. IEEE Transactions on Communications, 2022, 70, 389-403.	7.8	8
4	An Improved Digital Predistortion Mechanism via Joint Baseband and Radio Frequency Optimization. IEEE Communications Letters, 2022, 26, 439-443.	4.1	4
5	Crowdsourcing-Based Indoor Localization With Knowledge-Aided Fingerprint Transfer. IEEE Sensors Journal, 2022, 22, 4281-4293.	4.7	3
6	A Cooperative Shared Control Scheme Based on Intention Recognition for Flexible Assembly Manufacturing. Frontiers in Neurorobotics, 2022, 16, 850211.	2.8	3
7	Multi-UAV Content Caching Strategy and Cooperative, Complementary Content Transmission Based on Coalition Formation Game. Sensors, 2022, 22, 3123.	3.8	5
8	Multi-Floor Indoor Localization Based on Multi-Modal Sensors. Sensors, 2022, 22, 4162.	3.8	8
9	Data-driven Digital Pre-Distortion Design via Joint Intermediate and Radio Frequency Optimization. , 2022, , .		0
10	Energy-Efficient Resource Allocation With Flexible Frame Structure for Hybrid eMBB and URLLC Services. IEEE Transactions on Green Communications and Networking, 2021, 5, 72-83.	5.5	21
11	Age of Information Optimized MAC in V2X Sidelink via Piggyback-Based Collaboration. IEEE Transactions on Wireless Communications, 2021, 20, 607-622.	9.2	10
12	A Semi-Folded Decoding Architecture for Flexible Codeword Length Configuration of Polar Codes. , 2021, , .		0
13	An EKF-based multiple data fusion for mobile robot indoor localization. Assembly Automation, 2021, 41, 274-282.	1.7	8
14	Cooling-Aware Optimization of Edge Server Configuration and Edge Computation Offloading <?brk?>for Wirelessly Powered Devices. IEEE Transactions on Vehicular Technology, 2021, 70, 5043-5056.	6.3	7
15	A Novel GCN based Indoor Localization System with Multiple Access Points. , 2021, , .		5
16	A Reconfigurable and Pipelined Architecture for Standard-Compatible LDPC and Polar Decoding. IEEE Transactions on Vehicular Technology, 2021, 70, 5431-5444.	6.3	5
17	Self-Calibrating Indoor Localization with Crowdsourcing Fingerprints and Transfer Learning. , 2021, , .		4
18	A Unified Channel Estimation Framework for Stationary and Non-Stationary Fading Environments. IEEE Transactions on Communications, 2021, 69, 4937-4952.	7.8	8

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19	High Accurate Environmental Sound Classification: Sub-Spectrogram Segmentation versus Temporal-Frequency Attention Mechanism. Sensors, 2021, 21, 5500.	3.8	7
20	High Throughput and Low Complexity Traffic Splitting Mechanism for 5G Non-Stand Alone Dual Connectivity Transmission. IEEE Access, 2021, 9, 65162-65172.	4.2	4
21	Application Loading and Computing Allocation for Collaborative Edge Computing. IEEE Access, 2021, 9, 158481-158495.	4.2	3
22	High Precision Indoor Localization with Dummy Antennas - An Experimental Study. , 2021, , .		1
23	First 20 Years of Green Radios. IEEE Transactions on Green Communications and Networking, 2020, 4, 1-15.	5.5	29
24	A Cluster-Based Energy-Efficient Resource Management Scheme With QoS Requirement for Ultra-Dense Networks. IEEE Access, 2020, 8, 182412-182421.	4.2	9
25	MBPANet: Solving Multiple Power Allocation Optimization Problems by a Universal Neural Network Architecture. , 2020, , .		0
26	High Accurate Time-of-Arrival Estimation With Fine-Grained Feature Generation for Internet-of-Things Applications. IEEE Wireless Communications Letters, 2020, 9, 1980-1984.	5.0	1
27	An Analytical Framework for Delay Optimal Mobile Edge Deployment in Wireless Networks. IEEE Wireless Communications Letters, 2020, 9, 2149-2153.	5.0	3
28	6G: Connecting Everything by 1000 Times Price Reduction. IEEE Open Journal of Vehicular Technology, 2020, 1, 107-115.	4.9	63
29	SimuNN: A Pre-RTL Inference, Simulation and Evaluation Framework for Neural Networks. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2020, 10, 217-230.	3.6	4
30	Arbitrary-Shaped Text Detection With Adaptive Text Region Representation. IEEE Access, 2020, 8, 102106-102118.	4.2	13
31	Energy-Efficient Adaptive Modulation and Data Schedule for Delay-Sensitive Wireless Communications. IEEE Access, 2020, 8, 38123-38135.	4.2	1
32	LSRN: A Recurrent Residual Learning Framework for Continuous Wireless Channel Estimation Using Super-Resolution Concept. IEEE Access, 2020, 8, 38098-38111.	4.2	3
33	An Unfolded Pipelined Polar Decoder With Hybrid Number Representations for Multi-User MIMO Systems. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 2472-2476.	3.0	3
34	Efficient Sparse Code Multiple Access Decoder Based on Deterministic Message Passing Algorithm. IEEE Transactions on Vehicular Technology, 2020, 69, 3562-3574.	6.3	15
35	Joint Visual and Wireless Signal Feature based Approach for High-Precision Indoor Localization. , 2020, , .		3
36	Robust Sub-Meter Level Indoor Localization - A Logistic Regression Approach. , 2019, , .		9

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37	Energy-Efficient Subchannel and Power Allocation for HetNets Based on Convolutional Neural Network. , 2019, , .		23
38	A Low-Complexity Belief Propagation Based Decoding Scheme for Polar Codes - Decodability Detection and Early Stopping Prediction. IEEE Access, 2019, 7, 159808-159820.	4.2	10
39	Learning Attentive Representations for Environmental Sound Classification. IEEE Access, 2019, 7, 130327-130339.	4.2	50
40	Robust Sub-Meter Level Indoor Localization With a Single WiFi Access Pointâ€"Regression Versus Classification. IEEE Access, 2019, 7, 146309-146321.	4.2	33
41	Energy-Efficient Resource Allocation with Flexible Frame Structure for Heterogeneous Services. , 2019, , .		12
42	Channel Estimation for WiFi Prototype Systems with Super-Resolution Image Recovery. , 2019, , .		8
43	Joint Optimization of Interference Coordination Parameters and Base-Station Density for Energy-Efficient Heterogeneous Networks. Sensors, 2019, 19, 2154.	3.8	2
44	Wi-Alarm: Low-Cost Passive Intrusion Detection Using WiFi. Sensors, 2019, 19, 2335.	3.8	23
45	On the Low-Complexity, Hardware-Friendly Tridiagonal Matrix Inversion for Correlated Massive MIMO Systems. IEEE Transactions on Vehicular Technology, 2019, 68, 6272-6285.	6.3	25
46	Dynamic Carrier to MCPA Allocation for Energy Efficient Communication: Convex Relaxation Versus Deep Learning. IEEE Transactions on Green Communications and Networking, 2019, 3, 628-640.	5.5	9
47	A Real-Time Network Traffic Identifier for Open 5G/B5G Networks via Prototype Analysis. , 2019, , .		1
48	A Reconfigurable Decoder for Standard-Compatible LDPC Codes and Polar Codes. , 2019, , .		1
49	Fingerprint-Based Localization Using Commercial LTE Signals: A Field-Trial Study. , 2019, , .		18
50	A Unified Reconfigurable Datapath for 5G Compatible LDPC Decoding. , 2018, , .		2
51	Performance Evaluation for LTE-V based Vehicle-to-Vehicle Platooning Communication. , 2018, , .		8
52	A Prototype Performance Analysis for V2V Communications using USRP-based Software Defined Radio Platform. , 2018, , .		4
53	A Unified Deep Learning Based Polar-LDPC Decoder for 5G Communication Systems. , 2018, , .		22
54	A Stochastic ADMM Approach to Distributed Coordinated Multicell Beamforming for Renewables Powered Wireless Cellular Networks. IEEE Transactions on Vehicular Technology, 2018, 67, 8595-8607.	6.3	9

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55	Energy Efficient Pico Cell Range Expansion and Density Joint Optimization for Heterogeneous Networks with eICIC. Sensors, 2018, 18, 762.	3.8	8
56	Fundamental Green Tradeoffs: Progresses, Challenges, and Impacts on 5G Networks. IEEE Communications Surveys and Tutorials, 2017, 19, 33-56.	39.4	245
57	Energy-Efficiency Analysis and Optimization for Virtual-MIMO Systems. IEEE Transactions on Vehicular Technology, 2014, 63, 2272-2283.	6.3	18
58	Energy-Efficient Configuration of Spatial and Frequency Resources in MIMO-OFDMA Systems. IEEE Transactions on Communications, 2013, 61, 564-575.	7.8	80
59	Energy-Efficient Resource Allocation in OFDMA Networks. IEEE Transactions on Communications, 2012, 60, 3767-3778.	7.8	214
60	A Survey on Delay-Aware Resource Control for Wireless Systemsâ€"Large Deviation Theory, Stochastic Lyapunov Drift, and Distributed Stochastic Learning. IEEE Transactions on Information Theory, 2012, 58, 1677-1701.	2.4	226
61	Game Theoretical Power Control for Open-Loop Overlaid Network MIMO Systems with Partial Cooperation. IEEE Transactions on Wireless Communications, 2011, 10, 135-141.	9.2	7
62	Multi-Relay Selection Design and Analysis for Multi-Stream Cooperative Communications. IEEE Transactions on Wireless Communications, 2011, 10, 1082-1089.	9.2	26
63	Fundamental trade-offs on green wireless networks. IEEE Communications Magazine, 2011, 49, 30-37.	6.1	1,068
64	Energy-Efficient MIMO-OFDMA Systems Based on Switching off RF Chains. , 2011, , .		15
65	Protocol design and delay analysis of half-duplex buffered cognitive relay systems. IEEE Transactions on Wireless Communications, 2010, 9, 898-902.	9.2	16
66	Enhanced cooperative source diversity for multicast services with heterogeneous coverage. , 2009, , .		0
67	Game theoretical power control for open-loop network MIMO systems with partial cooperation. , 2009, , .		4
68	A low-overhead energy detection based cooperative sensing protocol for cognitive radio systems. IEEE Transactions on Wireless Communications, 2009, 8, 5575-5581.	9.2	34
69	Exploiting buffers in cognitive multi-relay systems for delay-sensitive applications. , 2009, , .		0