Zhengguo Sheng

List of Publications by Year
in descending order

81	3,106	172207	161609
papers	citations	29	54
		h-index	g-index

81	81	81	3593
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A survey on the ietf protocol suite for the internet of things: standards, challenges, and opportunities. IEEE Wireless Communications, 2013, 20, 91-98.	6.6	629
2	Recent Advances in Industrial Wireless Sensor Networks Toward Efficient Management in IoT. IEEE Access, 2015, 3, 622-637.	2.6	251
3	Context-Awareness for Mobile Sensing: A Survey and Future Directions. IEEE Communications Surveys and Tutorials, 2016, 18, 68-93.	24.8	150
4	Energy Efficient Cooperative Computing in Mobile Wireless Sensor Networks. IEEE Transactions on Cloud Computing, 2018, 6, 114-126.	3.1	132
5	Fast Splitting-Based Tag Identification Algorithm For Anti-Collision in UHF RFID System. IEEE Transactions on Communications, 2019, 67, 2527-2538.	4.9	106
6	Cloud-based Wireless Network: Virtualized, Reconfigurable, Smart Wireless Network to Enable 5G Technologies. Mobile Networks and Applications, 2015, 20, 704-712.	2.2	96
7	Lightweight Management of Resource-Constrained Sensor Devices in Internet of Things. IEEE Internet of Things Journal, 2015, 2, 402-411.	5.5	82
8	A Group-Based Binary Splitting Algorithm for UHF RFID Anti-Collision Systems. IEEE Transactions on Communications, 2020, 68, 998-1012.	4.9	75
9	Energy-Efficient Relay Selection for Cooperative Relaying in Wireless Multimedia Networks. IEEE Transactions on Vehicular Technology, 2015, 64, 1156-1170.	3.9	68
10	Performance Analysis of Routing Protocol for Low Power and Lossy Networks (RPL) in Large Scale Networks. IEEE Internet of Things Journal, 2017, 4, 2172-2185.	5.5	64
11	A Distributed Position-Based Protocol for Emergency Messages Broadcasting in Vehicular Ad Hoc Networks. IEEE Internet of Things Journal, 2018, 5, 1218-1227.	5.5	62
12	Advances and Emerging Challenges in Cognitive Internet-of-Things. IEEE Transactions on Industrial Informatics, 2020, 16, 5489-5496.	7.2	61
13	Reliability-Optimal Cooperative Communication and Computing in Connected Vehicle Systems. IEEE Transactions on Mobile Computing, 2020, 19, 1216-1232.	3.9	59
14	Self-Organized Relay Selection for Cooperative Transmission in Vehicular Ad-Hoc Networks. IEEE Transactions on Vehicular Technology, 2017, 66, 9534-9549.	3.9	53
15	An Effective Frame Breaking Policy for Dynamic Framed Slotted Aloha in RFID. IEEE Communications Letters, 2016, 20, 692-695.	2.5	52
16	Toward Offering More Useful Data Reliably to Mobile Cloud From Wireless Sensor Network. IEEE Transactions on Emerging Topics in Computing, 2015, 3, 84-94.	3.2	51
17	Robust Energy-Efficient MIMO Transmission for Cognitive Vehicular Networks. IEEE Transactions on Vehicular Technology, 2016, 65, 3845-3859.	3.9	49
18	From M-Ary Query to Bit Query: A New Strategy for Efficient Large-Scale RFID Identification. IEEE Transactions on Communications, 2020, 68, 2381-2393.	4.9	47

#	Article	IF	Citations
19	A Time and Energy Saving-Based Frame Adjustment Strategy (TES-FAS) Tag Identification Algorithm for UHF RFID Systems. IEEE Transactions on Wireless Communications, 2020, 19, 2974-2986.	6.1	45
20	Optimal Power Control in Green Wireless Sensor Networks With Wireless Energy Harvesting, Wake-Up Radio and Transmission Control. IEEE Access, 2017, 5, 501-518.	2.6	43
21	Green cell planning and deployment for small cell networks in smart cities. Ad Hoc Networks, 2016, 43, 30-42.	3.4	37
22	Demographic Information Prediction: A Portrait of Smartphone Application Users. IEEE Transactions on Emerging Topics in Computing, 2018, 6, 432-444.	3.2	37
23	A Proof-of-Quality-Factor (PoQF)-Based Blockchain and Edge Computing for Vehicular Message Dissemination. IEEE Internet of Things Journal, 2021, 8, 2468-2482.	5.5	37
24	A Microbial Inspired Routing Protocol for VANETs. IEEE Internet of Things Journal, 2018, 5, 2293-2303.	5.5	36
25	A Time Efficient Tag Identification Algorithm Using Dual Prefix Probe Scheme (DPPS). IEEE Signal Processing Letters, 2016, 23, 386-389.	2.1	34
26	A Partitioning Approach to RFID Identification. IEEE/ACM Transactions on Networking, 2020, 28, 2160-2173.	2.6	33
27	Joint Communication and Computation Resource Scheduling of a UAV-Assisted Mobile Edge Computing System for Platooning Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 8435-8450.	4.7	33
28	ReFIoV: A Novel Reputation Framework for Information-Centric Vehicular Applications. IEEE Transactions on Vehicular Technology, 2019, 68, 1810-1823.	3.9	31
29	A Blockchain Based Federated Learning for Message Dissemination in Vehicular Networks. IEEE Transactions on Vehicular Technology, 2022, 71, 1927-1940.	3.9	31
30	Channel Access Optimization with Adaptive Congestion Pricing for Cognitive Vehicular Networks: An Evolutionary Game Approach. IEEE Transactions on Mobile Computing, 2020, 19, 803-820.	3.9	26
31	Reliability-Aware Joint Optimization for Cooperative Vehicular Communication and Computing. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 5437-5446.	4.7	26
32	Cooperative Computation Offloading in Blockchain-Based Vehicular Edge Computing Networks. IEEE Transactions on Intelligent Vehicles, 2022, 7, 783-798.	9.4	26
33	Idle-Slots Elimination Based Binary Splitting Anti-Collision Algorithm for RFID. IEEE Communications Letters, 2016, 20, 2394-2397.	2.5	24
34	Q-Learning-Based Dynamic Spectrum Access in Cognitive Industrial Internet of Things. Mobile Networks and Applications, 2018, 23, 1636-1644.	2.2	24
35	Capture-Aware Identification of Mobile RFID Tags With Unreliable Channels. IEEE Transactions on Mobile Computing, 2022, 21, 1182-1195.	3.9	24
36	A Q-Learning Approach With Collective Contention Estimation for Bandwidth-Efficient and Fair Access Control in IEEE 802.11p Vehicular Networks. IEEE Transactions on Vehicular Technology, 2019, 68, 9136-9150.	3.9	23

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37	Contention-based learning MAC protocol for broadcast vehicle-to-vehicle communication. , 2017, , .		22
38	Robust Min-Max Model Predictive Vehicle Platooning With Causal Disturbance Feedback. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 15878-15897.	4.7	22
39	Intelligent 5G Vehicular Networks: An Integration of DSRC and mmWave Communications. , 2018, , .		21
40	An Adaptive Fusion Strategy for Distributed Information Estimation Over Cooperative Multi-Agent Networks. IEEE Transactions on Information Theory, 2017, , 1-1.	1.5	20
41	Reliability-Oriented Optimization of Computation Offloading for Cooperative Vehicle-Infrastructure Systems. IEEE Signal Processing Letters, 2019, 26, 104-108.	2.1	20
42	Distributed Task Offloading Optimization With Queueing Dynamics in Multiagent Mobile-Edge Computing Networks. IEEE Internet of Things Journal, 2021, 8, 12311-12328.	5.5	20
43	Connectivity Analysis for Cooperative Vehicular Ad Hoc Networks Under Nakagami Fading Channel. IEEE Communications Letters, 2014, 18, 1787-1790.	2.5	19
44	An Efficient Missing Tag Identification Approach in RFID Collisions. IEEE Transactions on Mobile Computing, 2023, 22, 720-731.	3.9	19
45	A Voting Blockchain based Message Dissemination in Vehicular Ad-Hoc Networks (VANETs). , 2020, , .		17
46	Joint Mobility, Communication and Computation Optimization for UAVs in Air-Ground Cooperative Networks. IEEE Transactions on Vehicular Technology, 2021, 70, 2493-2507.	3.9	17
47	Learning to Be Energy-Efficient in Cooperative Networks. IEEE Communications Letters, 2016, 20, 2518-2521.	2.5	16
48	Delay Analysis and Time-Critical Protocol Design for In-Vehicle Power Line Communication Systems. IEEE Transactions on Vehicular Technology, 2018, 67, 3-16.	3.9	16
49	An efficient sub-frame based tag identification algorithm for UHF RFID systems. , 2016, , .		15
50	REPSYS: A Robust and Distributed Incentive Scheme for Collaborative Caching and Dissemination in Content-Centric Cellular-Based Vehicular Delay-Tolerant Networks. IEEE Wireless Communications, 2018, 25, 65-71.	6.6	14
51	Robust Cooperative Communication Optimization for Multi-UAV-Aided Vehicular Networks. IEEE Wireless Communications Letters, 2021, 10, 780-784.	3.2	14
52	Swarm intelligence algorithm inspired by route choice behavior. Journal of Bionic Engineering, 2016, 13, 669-678.	2.7	13
53	Cooperative Content Transmission for Vehicular Ad Hoc Networks using Robust Optimization. , 2018, , .		11
54	An Effective Fuel-Level Data Cleaning and Repairing Method for Vehicle Monitor Platform. IEEE Transactions on Industrial Informatics, 2019, 15, 410-422.	7.2	11

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55	Two-Layer Distributed Content Caching for Infotainment Applications in VANETs. IEEE Internet of Things Journal, 2022, 9, 1696-1711.	5.5	11
56	A reliable and energy efficient IoT data transmission scheme for smart cities based on redundant residue based error correction coding. , 2015, , .		10
57	From Cellular Attractor Selection to Adaptive Signal Control for Traffic Networks. Scientific Reports, 2016, 6, 23048.	1.6	10
58	Resource allocation for cache-enabled cloud-based small cell networks. Computer Communications, 2018, 127, 20-29.	3.1	10
59	A Real-Time MAC Protocol for In-Vehicle Power Line Communications Based on HomePlug GP. , 2015, , .		9
60	Analytical Model of Spread of Epidemics in Open Finite Regions. IEEE Access, 2017, 5, 9673-9681.	2.6	9
61	From Cellular Decision Making to Adaptive Handoff in Heterogeneous Wireless Networks. IEEE Wireless Communications Letters, 2018, 7, 2-5.	3.2	9
62	Decentralized Robust Control for Vehicle Platooning Subject to Uncertain Disturbances via Super-Twisting Second-Order Sliding-Mode Observer Technique. IEEE Transactions on Vehicular Technology, 2022, 71, 7186-7201.	3.9	9
63	Break–taking behaviour pattern of long–distance freight vehicles based on GPS trajectory data. IET Intelligent Transport Systems, 2017, 11, 340-348.	1.7	8
64	Preference-Based Spectrum Pricing in Dynamic Spectrum Access Networks. IEEE Transactions on Services Computing, 2018, 11, 922-935.	3.2	8
65	Coexistence and Interference Mitigation for WPANs and WLANs From Traditional Approaches to Deep Learning: A Review. IEEE Sensors Journal, 2021, 21, 25561-25589.	2.4	7
66	Raptor Code-Enabled Reliable Data Transmission for In-Vehicle Power Line Communication Systems With Impulsive Noise. IEEE Communications Letters, 2017, 21, 2154-2157.	2.5	6
67	Agent-Based Spectrum Management Scheme in Satellite Communication Systems. IEEE Transactions on Vehicular Technology, 2021, 70, 2877-2881.	3.9	5
68	Neural Network based Partial Tomography for In-Vehicle Network Monitoring. , 2021, , .		5
69	Weighted Energy-Efficiency Maximization for a UAV-Assisted Multiplatoon Mobile-Edge Computing System. IEEE Internet of Things Journal, 2022, 9, 18208-18220.	5.5	5
70	Connected Vehicles in Smart Cities: Interworking from Inside Vehicles to Outside. , 2016, , .		4
71	Analysis on connectivity performance for vehicular ad hoc networks subjected to user behavior. , 2015, , .		3
72	Energy-efficient and distributed data-aware clustering protocol for the Internet-of-Things. , 2016, , .		3

#	Article	IF	Citations
73	IEEE Access Special Section Editorial: High Mobility 5G LTE-V: Challenges and Solutions. IEEE Access, 2018, 6, 40221-40225.	2.6	3
74	Reliability-Guaranteed Admission Control for Mobile Computation Offloading Under Nakagami Fading Channel. IEEE Wireless Communications Letters, 2021, 10, 2195-2199.	3.2	3
75	Optimal Control of Mixed Platoons with Autonomous and Human-Driven Vehicles. , 2021, , .		3
76	CGMP: cloud-assisted green multimedia processing. Multimedia Tools and Applications, 2016, 75, 13317-13332.	2.6	1
77	Transmission Power Optimization for An Air-Ground Cooperative Vehicular Network. , 2021, , .		1
78	Optimizing RSUs Network against Cascading Failure. , 2015, , .		0
79	Channel capacity under measurement-based model for cooperative vehicular ad hoc networks. , 2015, , .		0
80	Self-adaptive beaconing for vehicular ad hoc networks. , 2017, , .		0
81	Optimal Epidemic Information Dissemination in Uncertain Dynamic Environment. IEEE Wireless Communications Letters, 2018, 7, 518-521.	3.2	0