

Kai Zeng

List of Publications by Citations

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Version: 2024-04-27

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

76
papers

1,329
citations

19
h-index

34
g-index

85
ext. papers

1,725
ext. citations

6.9
avg, IF

5.28
L-index

#	Paper	IF	Citations
76	Non-cryptographic authentication and identification in wireless networks [Security and Privacy in Emerging Wireless Networks]. <i>IEEE Wireless Communications</i> , 2010 , 17, 56-62	13.4	156
75	Physical layer key generation in wireless networks: challenges and opportunities 2015 , 53, 33-39		124
74	Exploiting Multiple-Antenna Diversity for Shared Secret Key Generation in Wireless Networks 2010 ,		115
73	Physical-Layer Security of 5G Wireless Networks for IoT: Challenges and Opportunities. <i>IEEE Internet of Things Journal</i> , 2019 , 6, 8169-8181	10.7	104
72	A Survey on Security, Privacy, and Trust in Mobile Crowdsourcing. <i>IEEE Internet of Things Journal</i> , 2018 , 5, 2971-2992	10.7	68
71	PHY-CRAM: Physical Layer Challenge-Response Authentication Mechanism for Wireless Networks. <i>IEEE Journal on Selected Areas in Communications</i> , 2013 , 31, 1817-1827	14.2	57
70	Probability Density of the Received Power in Mobile Networks. <i>IEEE Transactions on Wireless Communications</i> , 2011 , 10, 3613-3619	9.6	53
69	MagPairing: Pairing Smartphones in Close Proximity Using Magnetometers. <i>IEEE Transactions on Information Forensics and Security</i> , 2016 , 11, 1306-1320	8	35
68	. <i>IEEE Transactions on Wireless Communications</i> , 2018 , 17, 7849-7864	9.6	35
67	Adaptive Wireless Channel Probing for Shared Key Generation Based on PID Controller. <i>IEEE Transactions on Mobile Computing</i> , 2013 , 12, 1842-1852	4.6	32
66	Adaptive wireless channel probing for shared key generation 2011 ,		30
65	String Stability Analysis of Cooperative Adaptive Cruise Control under Jamming Attacks 2017 ,		29
64	Metrics for Evaluating Video Streaming Quality in Lossy IEEE 802.11 Wireless Networks 2010 ,		26
63	Light-Weight Physical Layer Enhanced Security Schemes for 5G Wireless Networks. <i>IEEE Network</i> , 2019 , 33, 126-133	11.4	23
62	Physical Layer Key Generation in 5G Wireless Networks. <i>IEEE Wireless Communications</i> , 2019 , 26, 48-54	13.4	22
61	Delay Analysis of Physical-Layer Key Generation in Dynamic Roadside-to-Vehicle Networks. <i>IEEE Transactions on Vehicular Technology</i> , 2017 , 66, 2526-2535	6.8	19
60	Hearing is believing: Detecting mobile primary user emulation attack in white space 2011 ,		19

59	Identity-based attack detection in mobile wireless networks 2011 ,		19
58	A smartphone-based driver fatigue detection using fusion of multiple real-time facial features 2016 ,		19
57	Hearing Is Believing: Detecting Wireless Microphone Emulation Attacks in White Space. <i>IEEE Transactions on Mobile Computing</i> , 2013 , 12, 401-411	4.6	18
56	Live Video Forensics: Source Identification in Lossy Wireless Networks. <i>IEEE Transactions on Information Forensics and Security</i> , 2015 , 10, 28-39	8	17
55	Physical Layer Key Generation Using Virtual AoA and AoD of mmWave Massive MIMO Channel 2018 ,		17
54	Machine Learning-Based Delay-Aware UAV Detection and Operation Mode Identification Over Encrypted Wi-Fi Traffic. <i>IEEE Transactions on Information Forensics and Security</i> , 2020 , 15, 2346-2360	8	17
53	Practical Secret Key Agreement for Full-Duplex Near Field Communications. <i>IEEE Transactions on Mobile Computing</i> , 2016 , 15, 938-951	4.6	15
52	Pilot Contamination Attack Detection for NOMA in 5G mm-Wave Massive MIMO Networks. <i>IEEE Transactions on Information Forensics and Security</i> , 2020 , 15, 1363-1378	8	15
51	On energy efficiency of geographic opportunistic routing in lossy multihop wireless networks. <i>Wireless Networks</i> , 2012 , 18, 967-983	2.5	14
50	Pilot Contamination Attack Detection for 5G MmWave Grant-Free IoT Networks. <i>IEEE Transactions on Information Forensics and Security</i> , 2021 , 16, 658-670	8	14
49	Edge-prioritized channel- and traffic-aware uplink Carrier Aggregation in LTE-advanced systems 2012 ,		13
48	Opportunistic spectrum scheduling for mobile cognitive radio networks in white space 2011 ,		12
47	Prediction-time Efficient Classification Using Feature Computational Dependencies 2018 ,		12
46	Optimal Resource Allocation for Secure Multi-User Wireless Powered Backscatter Communication with Artificial Noise 2019 ,		10
45	Physical Layer Authentication for 5G Communications: Opportunities and Road Ahead. <i>IEEE Network</i> , 2020 , 34, 198-204	11.4	10
44	Impact of Jamming Attacks on Vehicular Cooperative Adaptive Cruise Control Systems. <i>IEEE Transactions on Vehicular Technology</i> , 2020 , 69, 12679-12693	6.8	9
43	A Practical Downlink NOMA Scheme for Wireless LANs. <i>IEEE Transactions on Communications</i> , 2020 , 68, 2236-2250	6.9	9
42	Physical Layer Secure MIMO Communications Against Eavesdroppers With Arbitrary Number of Antennas. <i>IEEE Transactions on Information Forensics and Security</i> , 2021 , 16, 466-481	8	9

41	Secret Beam: Robust Secret Key Agreement for mmWave Massive MIMO 5G Communication 2018 ,		8
40	Efficient Identity Spoofing Attack Detection for IoT in mm-Wave and Massive MIMO 5G Communication 2018 ,		8
39	Online Learning With Randomized Feedback Graphs for Optimal PUE Attacks in Cognitive Radio Networks. <i>IEEE/ACM Transactions on Networking</i> , 2018 , 26, 2268-2281	3.8	8
38	Pilot Contamination Attack Detection for NOMA in Mm-Wave and Massive MIMO 5G Communication 2018 ,		8
37	Pairwise Markov Chain: A Task Scheduling Strategy for Privacy-Preserving SIFT on Edge 2019 ,		7
36	Video source identification in lossy wireless networks 2013 ,		7
35	Online learning-based optimal primary user emulation attacks in cognitive radio networks 2016 ,		7
34	Message Integrity Protection Over Wireless Channel: Countering Signal Cancellation via Channel Randomization. <i>IEEE Transactions on Dependable and Secure Computing</i> , 2020 , 17, 106-120	3.9	7
33	Secure Inductive-Coupled Near Field Communication at Physical Layer. <i>IEEE Transactions on Information Forensics and Security</i> , 2018 , 13, 3078-3093	8	6
32	Manipulative Attack Against Physical Layer Key Agreement and Countermeasure. <i>IEEE Transactions on Dependable and Secure Computing</i> , 2021 , 18, 475-489	3.9	5
31	Online learning for unreliable passive monitoring in multi-channel wireless networks 2015 ,		4
30	MagPairing: Exploiting magnetometers for pairing smartphones in close proximity 2014 ,		4
29	Chaining for securing data provenance in distributed information networks 2012 ,		4
28	. <i>IEEE Access</i> , 2021 , 9, 60419-60432	3.5	4
27	Compressed-Sensing-Based Pilot Contamination Attack Detection for NOMA-IoT Communications. <i>IEEE Internet of Things Journal</i> , 2020 , 7, 7764-7772	10.7	3
26	Achieving Unconditional Security for MIMO-BAN under Short Blocklength Wiretap Code 2017 ,		3
25	Machine Learning-based Spoofing Attack Detection in MmWave 60GHz IEEE 802.11ad Networks 2020 ,		3
24	Intelligence Measure of Cognitive Radios with Learning Capabilities 2016 ,		3

23	Physical layer multi-user key generation in wireless networks. <i>Wireless Networks</i> , 2018 , 24, 1043-1054	2.5	3
22	Explore Recurrent Neural Network for PUE Attack Detection in Practical CRN Models 2018 ,		3
21	Throughput optimization in multi-hop wireless networks with reconfigurable antennas 2017 ,		2
20	Spoofing Attack Detection in Mm-Wave and Massive MIMO 5G Communication 2019 ,		2
19	A Reassessment on Friendly Jamming Efficiency. <i>IEEE Transactions on Mobile Computing</i> , 2019 , 1-1	4.6	2
18	Physical layer key agreement under signal injection attacks 2015 ,		2
17	Secure MIMO-SVD Communications Against Eavesdroppers With Any Number of Antennas. <i>IEEE Transactions on Vehicular Technology</i> , 2020 , 69, 11077-11089	6.8	2
16	Privacy Protection and Efficient Incumbent Detection in Spectrum Sharing Based on Federated Learning 2020 ,		2
15	Machine Learning-Assisted Wireless PHY Key Generation with Reconfigurable Intelligent Surfaces 2021 ,		2
14	Large-scale Cost-Aware Classification Using Feature Computational Dependency Graph. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2019 , 1-1	4.2	2
13	Enabling Efficient Blockage-Aware Handover in RIS-Assisted mmWave Cellular Networks. <i>IEEE Transactions on Wireless Communications</i> , 2021 , 1-1	9.6	2
12	Robust Spectrum Monitoring in Cognitive Radio Networks With Uncertain Traffic Information. <i>IEEE Access</i> , 2018 , 6, 34696-34706	3.5	1
11	Guest Editorial Special Issue on Trust, Security, and Privacy in Crowdsourcing. <i>IEEE Internet of Things Journal</i> , 2018 , 5, 2880-2883	10.7	1
10	Sharing Secrets via Wireless Broadcasting: A New Efficient Physical Layer Group Secret Key Generation for Multiple IoT Devices. <i>IEEE Internet of Things Journal</i> , 2022 , 1-1	10.7	1
9	Multiuser Scheduling in Centralized Cognitive Radio Networks: A Multi-Armed Bandit Approach. <i>IEEE Transactions on Cognitive Communications and Networking</i> , 2022 , 1-1	6.6	1
8	Identity-Based Attack Detection and Classification Utilizing Reciprocal RSS Variations in Mobile Wireless Networks. <i>IEEE Transactions on Mobile Computing</i> , 2020 , 1-1	4.6	1
7	Exploiting Beam Features for Spoofing Attack Detection in mmWave 60-GHz IEEE 802.11ad Networks. <i>IEEE Transactions on Wireless Communications</i> , 2021 , 20, 3321-3335	9.6	1
6	Redundant Sniffer Deployment for Multi-Channel Wireless Network Forensics With Unreliable Conditions. <i>IEEE Transactions on Cognitive Communications and Networking</i> , 2020 , 6, 394-407	6.6	1

5	Online-Learning-Based Defense Against Jamming Attacks in Multichannel Wireless CPS. <i>IEEE Internet of Things Journal</i> , 2021 , 8, 13278-13290	10.7	1
4	Resource Allocation Optimization for Secure Multi-device Wirelessly Powered Backscatter Communication with Artificial Noise. <i>IEEE Transactions on Wireless Communications</i> , 2022 , 1-1	9.6	1
3	Communication-Aware Secret Share Placement in Hierarchical Edge Computing. <i>IEEE Internet of Things Journal</i> , 2021 , 1-1	10.7	0
2	Opportunistic Routing Security 2011 , 213-229		
1	Orientation and Channel Independent RF Fingerprinting for 5G IEEE 802.11ad Devices. <i>IEEE Internet of Things Journal</i> , 2021 , 1-1	10.7	