

Shihao Yan

List of Publications by Year in descending order

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105
papers

4,032
citations

126858

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133188

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g-index

106
all docs

106
docs citations

106
times ranked

2110
citing authors

#	ARTICLE	IF	CITATIONS
1	Low Probability of Detection Communication: Opportunities and Challenges. IEEE Wireless Communications, 2019, 26, 19-25.	6.6	186
2	On Covert Communication With Noise Uncertainty. IEEE Communications Letters, 2017, 21, 941-944.	2.5	185
3	UAV-Enabled Secure Communications: Joint Trajectory and Transmit Power Optimization. IEEE Transactions on Vehicular Technology, 2019, 68, 4069-4073.	3.9	183
4	Short-Packet Downlink Transmission With Non-Orthogonal Multiple Access. IEEE Transactions on Wireless Communications, 2018, 17, 4550-4564.	6.1	179
5	Achieving Covert Wireless Communications Using a Full-Duplex Receiver. IEEE Transactions on Wireless Communications, 2018, 17, 8517-8530.	6.1	155
6	Delay-Intolerant Covert Communications With Either Fixed or Random Transmit Power. IEEE Transactions on Information Forensics and Security, 2019, 14, 129-140.	4.5	151
7	Artificial-Noise-Aided Secure Transmission With Directional Modulation Based on Random Frequency Diverse Arrays. IEEE Access, 2017, 5, 1658-1667.	2.6	148
8	Covert Communication Achieved by a Greedy Relay in Wireless Networks. IEEE Transactions on Wireless Communications, 2018, 17, 4766-4779.	6.1	129
9	Artificial Noise: Transmission Optimization in Multi-Input Single-Output Wiretap Channels. IEEE Transactions on Communications, 2015, 63, 1771-1783.	4.9	126
10	Joint Optimization of a UAV's Trajectory and Transmit Power for Covert Communications. IEEE Transactions on Signal Processing, 2019, 67, 4276-4290.	3.2	122
11	Covert Communication in Fading Channels under Channel Uncertainty. , 2017, , .		116
12	Gaussian Signalling for Covert Communications. IEEE Transactions on Wireless Communications, 2019, 18, 3542-3553.	6.1	103
13	Delay-Constrained Covert Communications With a Full-Duplex Receiver. IEEE Wireless Communications Letters, 2019, 8, 813-816.	3.2	91
14	Joint Beamforming and Power Allocation in Downlink NOMA Multiuser MIMO Networks. IEEE Transactions on Wireless Communications, 2018, 17, 5367-5381.	6.1	89
15	Covert Wireless Communication With a Poisson Field of Interferers. IEEE Transactions on Wireless Communications, 2018, 17, 6005-6017.	6.1	84
16	Transmit Antenna Selection with Alamouti Coding and Power Allocation in MIMO Wiretap Channels. IEEE Transactions on Wireless Communications, 2014, 13, 1656-1667.	6.1	80
17	Intelligent Reflecting Surface (IRS)-Aided Covert Wireless Communications With Delay Constraint. IEEE Transactions on Wireless Communications, 2022, 21, 532-547.	6.1	77
18	Two-Stage Relay Selection for Enhancing Physical Layer Security in Non-Orthogonal Multiple Access. IEEE Transactions on Information Forensics and Security, 2019, 14, 1670-1683.	4.5	73

#	ARTICLE	IF	CITATIONS
19	Physical Layer Security for Ultra-Reliable and Low-Latency Communications. IEEE Wireless Communications, 2019, 26, 6-11.	6.6	72
20	Beamforming Design and Power Allocation for Secure Transmission With NOMA. IEEE Transactions on Wireless Communications, 2019, 18, 2639-2651.	6.1	72
21	Optimization of Code Rates in SISOME Wiretap Channels. IEEE Transactions on Wireless Communications, 2015, 14, 6377-6388.	6.1	64
22	Covert Transmission With a Self-Sustained Relay. IEEE Transactions on Wireless Communications, 2019, 18, 4089-4102.	6.1	61
23	Artificial-Noise-Aided Secure Transmission in Wiretap Channels With Transmitter-Side Correlation. IEEE Transactions on Wireless Communications, 2016, 15, 8286-8297.	6.1	57
24	Covert Wireless Communications With Channel Inversion Power Control in Rayleigh Fading. IEEE Transactions on Vehicular Technology, 2019, 68, 12135-12149.	3.9	56
25	Optimal Transmit Power and Flying Location for UAV Covert Wireless Communications. IEEE Journal on Selected Areas in Communications, 2021, 39, 3321-3333.	9.7	56
26	Location-Based Beamforming for Enhancing Secrecy in Rician Wiretap Channels. IEEE Transactions on Wireless Communications, 2016, 15, 2780-2791.	6.1	55
27	Age of Information for Short-Packet Covert Communication. IEEE Wireless Communications Letters, 2021, 10, 1890-1894.	3.2	53
28	Three Artificial-Noise-Aided Secure Transmission Schemes in Wiretap Channels. IEEE Transactions on Vehicular Technology, 2018, 67, 3669-3673.	3.9	52
29	Covert Communications with a Full-Duplex Receiver over Wireless Fading Channels. , 2018, , .		48
30	Covert Communication in Downlink NOMA Systems With Random Transmit Power. IEEE Wireless Communications Letters, 2020, 9, 2000-2004.	3.2	47
31	Optimal Information-Theoretic Wireless Location Verification. IEEE Transactions on Vehicular Technology, 2014, 63, 3410-3422.	3.9	46
32	Performance Analysis of Cooperative Relaying Systems With Power-Domain Non-Orthogonal Multiple Access. IEEE Access, 2018, 6, 39839-39848.	2.6	46
33	Secret Channel Training to Enhance Physical Layer Security With a Full-Duplex Receiver. IEEE Transactions on Information Forensics and Security, 2018, 13, 2788-2800.	4.5	45
34	Covert communication with finite blocklength in AWGN channels. , 2017, , .		41
35	UAV-Enabled Covert Wireless Data Collection. IEEE Journal on Selected Areas in Communications, 2021, 39, 3348-3362.	9.7	41
36	Covert Wireless Communication in Presence of a Multi-Antenna Adversary and Delay Constraints. IEEE Transactions on Vehicular Technology, 2019, 68, 12432-12436.	3.9	40

#	ARTICLE	IF	CITATIONS
37	Covert Communication in Wireless Relay Networks. , 2017, , .		32
38	Optimal Transmission of Short-Packet Communications in Multiple-Input Single-Output Systems. IEEE Transactions on Vehicular Technology, 2019, 68, 7199-7203.	3.9	31
39	Energy-Efficient Covert Communications for Bistatic Backscatter Systems. IEEE Transactions on Vehicular Technology, 2021, 70, 2906-2911.	3.9	30
40	TAS-Based Incremental Hybrid Decode“Amplify“Forward Relaying for Physical Layer Security Enhancement. IEEE Transactions on Communications, 2017, 65, 3876-3891.	4.9	29
41	Location-Aware Pilot Allocation in Multicell Multiuser Massive MIMO Networks. IEEE Transactions on Vehicular Technology, 2018, 67, 7774-7778.	3.9	28
42	Hiding Unmanned Aerial Vehicles for Wireless Transmissions by Covert Communications. , 2019, , .		28
43	Covert Communications With Constrained Age of Information. IEEE Wireless Communications Letters, 2021, 10, 368-372.	3.2	28
44	Intelligent Reflecting Surface (IRS)-Aided Covert Communication With Warden’s Statistical CSI. IEEE Wireless Communications Letters, 2021, 10, 1449-1453.	3.2	28
45	Covert Communications Without Channel State Information at Receiver in IoT systems. IEEE Internet of Things Journal, 2020, 7, 11103-11114.	5.5	27
46	On Resource Allocation in Covert Wireless Communication With Channel Estimation. IEEE Transactions on Communications, 2020, 68, 6456-6469.	4.9	26
47	Covertness and Timeliness of Data Collection in UAV-Aided Wireless-Powered IoT. IEEE Internet of Things Journal, 2022, 9, 12573-12587.	5.5	25
48	Location Verification Systems for VANETs in Rician Fading Channels. IEEE Transactions on Vehicular Technology, 2016, 65, 5652-5664.	3.9	24
49	On the Incentive Mechanisms for Commercial Edge Caching in 5G Wireless Networks. IEEE Wireless Communications, 2018, 25, 72-78.	6.6	24
50	Computation Offloading With Instantaneous Load Billing for Mobile Edge Computing. IEEE Transactions on Services Computing, 2022, 15, 1473-1485.	3.2	24
51	Location Verification Systems Under Spatially Correlated Shadowing. IEEE Transactions on Wireless Communications, 2016, 15, 4132-4144.	6.1	23
52	Joint Beam Training and Data Transmission Design for Covert Millimeter-Wave Communication. IEEE Transactions on Information Forensics and Security, 2021, 16, 2232-2245.	4.5	23
53	Three-Dimensional Placement and Transmit Power Design for UAV Covert Communications. IEEE Transactions on Vehicular Technology, 2021, 70, 13424-13429.	3.9	23
54	Mitigating Pilot Contamination through Location-Aware Pilot Assignment in Massive MIMO Networks. , 2016, , .		20

#	ARTICLE	IF	CITATIONS
55	Non-Orthogonal Multiple Access and Artificial-Noise Aided Secure Transmission in FD Relay Networks. , 2017, , .		20
56	Secure Transmission to the Strong User in Non-Orthogonal Multiple Access. IEEE Communications Letters, 2018, 22, 2623-2626.	2.5	19
57	On the target secrecy rate for SISOME wiretap channels. , 2014, , .		18
58	Antenna switching for security enhancement in full-duplex wiretap channels. , 2014, , .		17
59	Performance analysis of a novel uplink cooperative NOMA system with full-duplex relaying. IET Communications, 2018, 12, 2408-2417.	1.5	17
60	An information theoretic Location Verification System for wireless networks. , 2012, , .		15
61	User and Relay Selection With Artificial Noise to Enhance Physical Layer Security. IEEE Transactions on Vehicular Technology, 2018, 67, 10906-10920.	3.9	15
62	Downlink NOMA Transmission for Low-Latency Short-Packet Communications. , 2018, , .		15
63	Physical layer security enhancement in multi-user multi-full-duplex-relay networks. , 2017, , .		13
64	Location Verification Systems Based on Received Signal Strength With Unknown Transmit Power. IEEE Communications Letters, 2018, 22, 650-653.	2.5	12
65	Location Verification for Emerging Wireless Vehicular Networks. IEEE Internet of Things Journal, 2019, 6, 10261-10272.	5.5	11
66	On the Pilot Contamination Attack in Multi-Cell Multiuser Massive MIMO Networks. IEEE Transactions on Communications, 2020, 68, 2264-2276.	4.9	11
67	Joint Packet Generation and Covert Communication in Delay-Intolerant Status Update Systems. IEEE Transactions on Vehicular Technology, 2022, 71, 2170-2175.	3.9	11
68	Signal strength based wireless Location Verification under spatially correlated shadowing. , 2014, , .		10
69	Channel training design in full-duplex wiretap channels to enhance physical layer security. , 2017, , .		10
70	On Channel Reciprocity to Activate Uplink Channel Training for Downlink Wireless Transmission in Tactile Internet Applications. , 2018, , .		9
71	Optimal Geometric Solutions to UAV-Enabled Covert Communications in Line-of-Sight Scenarios. IEEE Transactions on Wireless Communications, 2022, 21, 10633-10647.	6.1	8
72	Secrecy Zone Achieved by Directional Modulation With Random Frequency Diverse Array. IEEE Transactions on Vehicular Technology, 2021, 70, 2001-2006.	3.9	7

#	ARTICLE	IF	CITATIONS
73	Timing information in wireless communications and optimal location verification frameworks. , 2014, , .		6
74	Location Spoofing Detection for VANETs by a Single Base Station in Rician Fading Channels. , 2015, , .		6
75	Regularized Channel Inversion for Simultaneous Confidential Broadcasting and Power Transfer: A Large System Analysis. IEEE Journal on Selected Topics in Signal Processing, 2016, 10, 1404-1416.	7.3	6
76	Is Gaussian Signalling Optimal for Covert Communications?. , 2019, , .		6
77	Machine Learning and Location Verification in Vehicular Networks. , 2019, , .		6
78	Artificial Intelligence and Location Verification in Vehicular Networks. , 2019, , .		6
79	Resource Allocation for Secure Rate-Splitting Multiple Access with Adaptive Beamforming. , 2021, , .		6
80	Covert Wireless Data Collection Based on Unmanned Aerial Vehicles. , 2019, , .		5
81	Heterogeneous Computational Resource Allocation for C-RAN: A Contract-Theoretic Approach. IEEE Transactions on Services Computing, 2021, 14, 2026-2040.	3.2	5
82	Optimal Pulse-Position Modulation Order and Transmit Power in Covert Communications. IEEE Transactions on Vehicular Technology, 2022, 71, 5570-5575.	3.9	5
83	Line-Of-Sight Based Beamforming for Security Enhancements in Wiretap Channels. , 2014, , .		4
84	Robust Beamforming Design for Secure DM-Based Relay Networks With Self-Sustained Jammers. IEEE Access, 2019, 7, 969-983.	2.6	4
85	A Location Verification Based Hybrid Routing Protocol for VANETs. , 2020, , .		4
86	Secure adaptive transmission in two-way relay wiretap channels. , 2014, , .		3
87	One-Way URLLC with Truncated Channel Inversion Power Control. , 2019, , .		3
88	Improved Distributed Event-Triggered Control for Networked Control System under Random Cyberattacks via Bessel's Legendre Inequalities. Complexity, 2020, 2020, 1-14.	0.9	3
89	Probabilistic Accumulate-Then-Transmit in Wireless-Powered Covert Communications. IEEE Transactions on Wireless Communications, 2022, 21, 10393-10406.	6.1	3
90	How Does Repetition Coding Enable Reliable and Covert Communications?. IEEE Wireless Communications Letters, 2021, 10, 639-643.	3.2	2

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91	Safeguarding Non-Orthogonal Multiple Access with Physical Layer Techniques. IEEE Network, 2022, 36, 145-151.	4.9	2
92	Transmit antenna selection with Alamouti scheme in MIMO wiretap channels. , 2013, , .		1
93	Active Attack on User Load Achieving Pilot Design in Massive MIMO Networks. , 2017, , .		1
94	Impact of Load Balancing on Rate Coverage Performance in Millimeter Wave Cellular Heterogeneous Networks. , 2018, , .		1
95	Generalized and Differential Likelihood Ratio Tests with Quantum Signal Processing. , 2019, , .		1
96	Reconfigurable Intelligent Surface Aided Non-Orthogonal Unicast-Multicast Secure Transmission. IEEE Wireless Communications Letters, 2022, 11, 578-582.	3.2	1
97	Location Information Verification in Future Vehicular Networks. , 2020, , .		1
98	Truncated Channel Inversion Power Control to Enable One-Way URLLC With Imperfect Channel Reciprocity. IEEE Transactions on Communications, 2022, 70, 2313-2327.	4.9	1
99	Correlation between Estimation Error and Possible Region in Localization Algorithms. Advanced Materials Research, 2012, 457-458, 1514-1520.	0.3	0
100	Fundamental properties of on-off transmission scheme for wiretap channels. , 2015, , .		0
101	Correlation-Based Power Allocation for Secure Transmission with Artificial Noise. , 2016, , .		0
102	IEEE Access Special Section Editorial: Secure Modulations for Future Wireless Communications and Mobile Networks. IEEE Access, 2019, 7, 181942-181946.	2.6	0
103	Secure Transmission with Directional Modulation Based on Random Frequency Diverse Arrays. , 2021, , 29-50.		0
104	Neural Network Architectures for Location Estimation in the Internet of Things. , 2021, , .		0
105	On Likelihood Functions to Minimize KL Divergence in Binary Hypothesis Testing. , 2020, , .		0