

Yao-Win Peter Hong

List of Publications by Year in descending order

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91
papers

1,975
citations

430874

18
h-index

276875

41
g-index

91
all docs

91
docs citations

91
times ranked

1707
citing authors

#	ARTICLE	IF	CITATIONS
1	A scalable synchronization protocol for large scale sensor networks and its applications. IEEE Journal on Selected Areas in Communications, 2005, 23, 1085-1099.	14.0	258
2	Opportunistic large arrays: cooperative transmission in wireless multihop ad hoc networks to reach far distances. IEEE Transactions on Signal Processing, 2003, 51, 2082-2092.	5.3	254
3	Enhancing Physical-Layer Secrecy in Multiantenna Wireless Systems: An Overview of Signal Processing Approaches. IEEE Signal Processing Magazine, 2013, 30, 29-40.	5.6	204
4	Optimized opportunistic multicast scheduling (OMS) over wireless cellular networks. IEEE Transactions on Wireless Communications, 2010, 9, 791-801.	9.2	115
5	Energy-efficient broadcasting with cooperative transmissions in wireless sensor networks. IEEE Transactions on Wireless Communications, 2006, 5, 2844-2855.	9.2	106
6	Lifetime maximization for amplify-and-forward cooperative networks. IEEE Transactions on Wireless Communications, 2008, 7, 1800-1805.	9.2	100
7	On the Impact of Quantized Channel Feedback in Guaranteeing Secrecy with Artificial Noise: The Noise Leakage Problem. IEEE Transactions on Wireless Communications, 2011, 10, 901-915.	9.2	83
8	Secure Degrees of Freedom of MIMO Rayleigh Block Fading Wiretap Channels With No CSI Anywhere. IEEE Transactions on Wireless Communications, 2015, 14, 2655-2669.	9.2	65
9	Training Sequence Design for Discriminatory Channel Estimation in Wireless MIMO Systems. IEEE Transactions on Signal Processing, 2010, 58, 6223-6237.	5.3	64
10	Bio-inspired algorithms for decentralized round-robin and proportional fair scheduling. IEEE Journal on Selected Areas in Communications, 2010, 28, 564-575.	14.0	59
11	Two-Way Training for Discriminatory Channel Estimation in Wireless MIMO Systems. IEEE Transactions on Signal Processing, 2013, 61, 2724-2738.	5.3	57
12	To avoid or not to avoid CSI leakage in physical layer secret communication systems. , 2015, 53, 19-25.		44
13	Traffic Offloading in Heterogeneous Networks With Energy Harvesting Personal Cells-Network Throughput and Energy Efficiency. IEEE Transactions on Wireless Communications, 2016, 15, 1146-1161.	9.2	37
14	Exploiting Data-Dependent Transmission Control and MAC Timing Information for Distributed Detection in Sensor Networks. IEEE Transactions on Signal Processing, 2010, 58, 1369-1382.	5.3	30
15	Wireless Power Transfer for Distributed Estimation in Wireless Passive Sensor Networks. IEEE Transactions on Signal Processing, 2016, 64, 5382-5395.	5.3	30
16	Probabilistic Medium Access Control for Full-Duplex Networks With Half-Duplex Clients. IEEE Transactions on Wireless Communications, 2017, 16, 2627-2640.	9.2	30
17	PulseSS: A Pulse-Coupled Synchronization and Scheduling Protocol for Clustered Wireless Sensor Networks. IEEE Internet of Things Journal, 2016, 3, 1222-1234.	8.7	26
18	On the Role of Artificial Noise in Training and Data Transmission for Secret Communications. IEEE Transactions on Information Forensics and Security, 2017, 12, 516-531.	6.9	23

#	ARTICLE	IF	CITATIONS
19	Vector Quantization and Clustered Key Mapping for Channel-Based Secret Key Generation. IEEE Transactions on Information Forensics and Security, 2017, 12, 1170-1181.	6.9	20
20	Channel-Aware Random Access Control for Distributed Estimation in Sensor Networks. IEEE Transactions on Signal Processing, 2008, 56, 2967-2980.	5.3	18
21	Optimized opportunistic multicast scheduling (OMS) over heterogeneous cellular networks. , 2009, , .		18
22	Wireless Maxâ€“Min Utility Fairness With General Monotonic Constraints by Perronâ€“Frobenius Theory. IEEE Transactions on Information Theory, 2016, 62, 7283-7298.	2.4	17
23	On the impact of quantized channel feedback in guaranteeing secrecy with artificial noise. , 2009, , .		16
24	Trajectory Learning, Clustering, and User Association for Dynamically Connectable UAV Base Stations. IEEE Transactions on Green Communications and Networking, 2020, 4, 1091-1105.	5.5	14
25	Resource Allocation and Partner Selection for Cooperative Multicarrier Systems. IEEE Transactions on Vehicular Technology, 2011, 60, 3228-3240.	6.3	13
26	Energy harvesting personal cells - traffic offloading and network throughput. , 2015, , .		13
27	On Cooperative and Malicious Behaviors in Multirelay Fading Channels. IEEE Transactions on Information Forensics and Security, 2013, 8, 1126-1139.	6.9	12
28	Optimized Random Deployment of Energy Harvesting Sensors for Field Reconstruction in Analog and Digital Forwarding Systems. IEEE Transactions on Signal Processing, 2015, 63, 5194-5209.	5.3	12
29	UAV Deployment and IoT Device Association for Energy-Efficient Data-Gathering in Fixed-Wing Multi-UAV Networks. IEEE Transactions on Green Communications and Networking, 2021, 5, 1934-1946.	5.5	12
30	Transmission control with imperfect CSI in channel-aware slotted ALOHA networks. IEEE Transactions on Wireless Communications, 2009, 8, 5214-5224.	9.2	11
31	Power-Efficient Trajectory Adjustment and Temporal Routing for Multi-UAV Networks. IEEE Transactions on Green Communications and Networking, 2020, 4, 1106-1119.	5.5	11
32	Coloring-Based Channel Allocation for Multiple Coexisting Wireless Body Area Networks: A Game-Theoretic Approach. IEEE Transactions on Mobile Computing, 2020, , 1-1.	5.8	10
33	Pulse coupled oscillators’ primitives for collision-free multiple access with application to body area networks. , 2008, , .		9
34	Training Signal Design for Discriminatory Channel Estimation. , 2009, , .		9
35	Exploiting Cooperative Advantages in Slotted ALOHA Random Access Networks. IEEE Transactions on Information Theory, 2010, 56, 3828-3846.	2.4	9
36	Coordinated Multicasting With Opportunistic User Selection in Multicell Wireless Systems. IEEE Transactions on Signal Processing, 2015, 63, 3506-3521.	5.3	9

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37	Dynamic Transmission Policy for Multi-Pair Cooperative Device-to-Device Communication With Block-Diagonalization Precoding. IEEE Transactions on Wireless Communications, 2019, 18, 3034-3048.	9.2	9
38	Distributed Exploitation of Spectrum and Channel State Information for Channel Reservation and Selection in Interweave Cognitive Radio Networks. IEEE Transactions on Wireless Communications, 2013, 12, 3458-3472.	9.2	8
39	On the Throughput, Delay, and Energy Efficiency of Distributed Source Coding in Random Access Sensor Networks. IEEE Transactions on Wireless Communications, 2010, 9, 1965-1975.	9.2	7
40	Artificial noise design for discriminatory channel estimation in wireless MIMO systems. , 2014, , .		7
41	Learning-based energy management policy with battery depth-of-discharge considerations. , 2015, , .		7
42	UAV Trajectory optimization for Data-Gathering from Backscattering Sensor Networks. , 2020, , .		7
43	Pulse coupled oscillators' primitive for low complexity scheduling. , 2009, , .		6
44	UAV Trajectory Optimization for Joint Relay Communication and Image Surveillance. IEEE Transactions on Wireless Communications, 2022, 21, 10177-10192.	9.2	6
45	Two-Way Training Design for Discriminatory Channel Estimation in Wireless MIMO Systems. , 2011, , .		5
46	Improved Transmission Strategies for Cognitive Radio Under the Coexistence Constraint. IEEE Transactions on Wireless Communications, 2012, 11, 4058-4073.	9.2	5
47	Enhancing secrecy in fading wiretap channels with only transmitter-side channel state information. , 2014, , .		5
48	Convergence Results on Pulse Coupled Oscillator Protocols in Locally Connected Networks. IEEE/ACM Transactions on Networking, 2017, 25, 1004-1019.	3.8	5
49	Gait Phase Segmentation Using Weighted Dynamic Time Warping and K-Nearest Neighbors Graph Embedding. , 2020, , .		5
50	Cognitive radio with unidirectional transmitter and receiver cooperations. , 2010, , .		4
51	Multi-Antenna Multicasting with Opportunistic Multicast Scheduling and Space-Time Transmission. , 2010, , .		4
52	Feedback-aided pilot placement for amplify-and-forward OFDM relay links. , 2010, , .		4
53	Sum-rate maximization and energy-cost minimization for renewable energy empowered base-stations using zero-forcing beamforming. , 2013, , .		4
54	Probabilistic-Based Adaptive Full-Duplex and Half-Duplex Medium Access Control. , 2015, , .		4

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55	PulseSS: A microcontroller implementation of Pulse-coupled Scheduling and Synchronization protocol for cluster-based wireless sensor networks. , 2015, , .		4
56	Cooperative Multicasting in Renewable Energy Enhanced Relay Networksâ€”Expending More Power to Save Energy. IEEE Transactions on Wireless Communications, 2016, 15, 753-768.	9.2	4
57	Group Testing for Binary Markov Sources: Data-Driven Group Queries for Cooperative Sensor Networks. IEEE Transactions on Information Theory, 2008, 54, 3538-3551.	2.4	3
58	Collaborative Change Detection for Efficient Spectrum Sensing in Cognitive Radio Networks. , 2010, , .		3
59	Channel-Aware Transmission Control for Cooperative Random Access Networks. , 2010, , .		3
60	Joint Training and Beamforming Design for Performance Discrimination Using Artificial Noise. , 2011, , .		3
61	Feedback-Aided Pilot Placement for OFDM Relay Links with Subcarrier Pairing. , 2011, , .		3
62	Downlink multiuser beamforming and power control for base stations empowered by renewable energy. , 2013, , .		3
63	Wireless power transfer for distributed estimation in wireless passive sensor networks. , 2015, , .		3
64	Center-Assisted Personal Gait Authentication Using Orientation Adversarial Feature Extraction. , 2019, , .		3
65	Exploiting Local Channel State Information for Random Access in Cooperative Networks. IEEE Transactions on Vehicular Technology, 2013, 62, 3204-3218.	6.3	2
66	Multicasting with untrusted relays: A noncoherent secure network coding approach. , 2015, , .		2
67	Jamming-resistant frequency hopping system with secret key generation from channel observations. , 2016, , .		2
68	Caching for distributed parameter estimation in wireless sensor networks. , 2017, , .		2
69	Socially-Aware Joint Recommendation and Caching Policy Design in Wireless D2D Networks. , 2021, , .		2
70	Sparse Affine Sampling: Ambiguity-Free and Efficient Sparse Phase Retrieval. IEEE Transactions on Information Theory, 2022, 68, 7604-7626.	2.4	2
71	Reduced-rank multiuser relaying (RR-MUR) scheme for uplink CDMA networks. , 2009, , .		1
72	Subcarrier allocation and partner selection algorithms for cooperative multicarrier systems. , 2010, , .		1

#	ARTICLE	IF	CITATIONS
73	Two-way discriminatory channel estimation for non-reciprocal wireless MIMO channels. , 2011, , .		1
74	Opportunistic Multicast Scheduling with Multiple Multicast Groups. , 2011, , .		1
75	Channel and sensing aware channel access policy for multi-channel cognitive radio networks. , 2012, , .		1
76	Optimized random deployment of large-scale energy-harvesting sensors for field reconstruction. , 2013, , .		1
77	Probabilistic-Based Adaptive Full-Duplex and Half-Duplex Medium Access Control. , 2014, , .		1
78	Secrecy-Enhancing Signaling Schemes for Fast-Varying Wiretap Channels With Only CSI at the Transmitter. IEEE Transactions on Wireless Communications, 2016, 15, 8492-8505.	9.2	1
79	MMSE Hybrid Beamforming for Weighted Sum Rate Maximization in NOMA Systems. , 2017, , .		1
80	Collaborative Sensor Caching via Sequential Compressed Sensing. , 2019, , .		1
81	In-Network Learning via Over-the-Air Computation in Internet-of-Things. , 2021, , .		1
82	A Game Theoretic Approach for the Cooperative Network with the Presence of Malicious Relays. , 2011, , .		0
83	A simple method for localization in Wireless Sensor Networks. , 2014, , .		0
84	User pair selection for distributed-input distributed-output wireless systems. , 2016, , .		0
85	Secret key generation for pairwise independent networks with curious helpers. , 2017, , .		0
86	Malicious Crowdsourcing Worker Detection using Privacy-Aware Group Queries. , 2019, , .		0
87	Federated Truth Inference over Distributed Crowdsourcing Platforms. , 2020, , .		0
88	Bridging the Gap Between Academia and Industry: MOST 6G Research Program in Taiwan. , 2021, , .		0
89	Specrank: Ranking by Pairwise Comparisons from Specialty Workers in a Crowdsourced Setting. , 2021, , .		0
90	Knowledge Caching for Federated Learning. , 2021, , .		0

#	ARTICLE	IF	CITATIONS
91	Efficient Caching by Linear Compression for Parameter Estimation in Wireless Sensor Networks. IEEE Transactions on Signal Processing, 2022, 70, 1155-1169.	5.3	0