

# Yingbo Hua

## List of Publications by Year in descending order

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86

papers

3,149

citations

279798

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254184

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86

all docs

86

docs citations

86

times ranked

1748

citing authors

#	ARTICLE	IF	CITATIONS
1	Total Secrecy From Anti-Eavesdropping Channel Estimation. IEEE Transactions on Signal Processing, 2022, 70, 1088-1103.	5.3	4
2	Secret Key Generation by Continuous Encryption Before Quantization. IEEE Signal Processing Letters, 2022, 29, 1497-1501.	3.6	3
3	Physical Layer Encryption for UAV-to-Ground Communications. , 2022, , .		0
4	Secrecy of Multi-Antenna Transmission With Full-Duplex User in the Presence of Randomly Located Eavesdroppers. IEEE Transactions on Information Forensics and Security, 2021, 16, 2060-2075.	6.9	6
5	Optimal Power Allocation for Cooperative Multiple Access With Non-Ideal Full-Duplex Sources. IEEE Transactions on Communications, 2021, 69, 2372-2386.	7.8	1
6	Anti-Eavesdropping Channel Estimation Using Multi-Antenna Half-Duplex Radios. , 2021, , .		0
7	Optimal Pilots for Anti-Eavesdropping Channel Estimation. IEEE Transactions on Signal Processing, 2020, 68, 2629-2644.	5.3	10
8	Optimization of Multiple Access Channel Cooperation between Non-Ideal Full-Duplex Sources. , 2020, , .		1
9	Unconditional Secrecy and Computational Complexity against Wireless Eavesdropping. , 2020, , .		2
10	Reliable and Secure Transmission for Future Networks. , 2020, , .		3
11	Secrecy Analyses of a Full-Duplex MIMOME Network. IEEE Transactions on Signal Processing, 2019, 67, 5968-5982.	5.3	15
12	Optimal Pilots for Maximal Capacity of Secret Key Generation. , 2019, , .		4
13	Secure Downlink Transmission to Full-Duplex User against Randomly Located Eavesdroppers. , 2019, , .		1
14	Advanced Properties of Full-Duplex Radio for Securing Wireless Network. IEEE Transactions on Signal Processing, 2019, 67, 120-135.	5.3	24
15	A NEW LOOK AT SECRECY CAPACITY OF MIMOME USING ARTIFICIAL NOISE FROM ALICE AND BOB WITHOUT KNOWLEDGE OF EVE'S CSI. , 2018, , .		1
16	Linear Transceiver Designs for MIMO Indoor Visible Light Communications Under Lighting Constraints. IEEE Transactions on Communications, 2017, 65, 2494-2508.	7.8	29
17	Optimal power allocation for a full-duplex multicarrier decode-forward relay system with or without direct link. Signal Processing, 2017, 137, 177-191.	3.7	10
18	Fast Power Allocation for Secure Communication With Full-Duplex Radio. IEEE Transactions on Signal Processing, 2017, 65, 3846-3861.	5.3	26

#	ARTICLE	IF	CITATIONS
19	Channel Estimation, Carrier Recovery, and Data Detection in the Presence of Phase Noise in OFDM Relay Systems. IEEE Transactions on Wireless Communications, 2016, 15, 1186-1205.	9.2	33
20	MSE-Based Transceiver Designs for Full-Duplex MIMO Cognitive Radios. IEEE Transactions on Communications, 2015, 63, 2056-2070.	7.8	40
21	Channel Estimation and Optimal Training Design for Correlated MIMO Two-Way Relay Systems in Colored Environment. IEEE Transactions on Wireless Communications, 2015, 14, 2684-2699.	9.2	18
22	Weighted Sum-Rate Maximization for Full-Duplex MIMO Interference Channels. IEEE Transactions on Communications, 2015, 63, 801-815.	7.8	95
23	Radio self-interference cancellation by transmit beamforming, all-analog cancellation and blind digital tuning. Signal Processing, 2015, 108, 322-340.	3.7	47
24	Optimal training design and individual channel estimation for MIMO two-way relay systems in colored environment. , 2014, , .		1
25	A numerical investigation of all-analog radio self-interference cancellation. , 2014, , .		9
26	Channel estimation and carrier recovery in the presence of phase noise in OFDM relay systems. , 2014, , .		1
27	Constellation Design for a Multicarrier Optical Wireless Communication Channel. IEEE Transactions on Communications, 2014, 62, 214-225.	7.8	25
28	A Dual-Phase Power Allocation Scheme for Multicarrier Relay System With Direct Link. IEEE Transactions on Signal Processing, 2014, 62, 5-16.	5.3	18
29	Achievable Rates of Full-Duplex MIMO Radios in Fast Fading Channels With Imperfect Channel Estimation. IEEE Transactions on Signal Processing, 2014, 62, 3874-3886.	5.3	172
30	Free-space optical multi-subcarrier communication employing power-efficient constellations. , 2014, , .		2
31	Breaking the barrier of transmission noise in full-duplex radio. , 2013, , .		20
32	Training slot allocation for mitigating estimation error propagation in a two-hop relaying system. , 2013, , .		0
33	Splitting source power for a multicarrier relay system with direct link. , 2013, , .		1
34	Guest Editorial: Theories and Methods for Advanced Wireless Relays â€” Issue II. IEEE Journal on Selected Areas in Communications, 2013, 31, 1361-1367.	14.0	8
35	A Method for Broadband Full-Duplex MIMO Radio. IEEE Signal Processing Letters, 2012, 19, 793-796.	3.6	172
36	Guest Editorial Theories and Methods for Advanced Wireless Relays â€” Issue I. IEEE Journal on Selected Areas in Communications, 2012, 30, 1297-1303.	14.0	24

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37	On Energy for Progressive and Consensus Estimation in Multihop Sensor Networks. IEEE Transactions on Signal Processing, 2011, 59, 3863-3875.	5.3	19
38	Optimal Design of Spatial Source-and-Relay Matrices for a Non-Regenerative Two-Way MIMO Relay System. IEEE Transactions on Wireless Communications, 2011, 10, 1645-1655.	9.2	100
39	Optimal Design of Source and Relay Pilots for MIMO Relay Channel Estimation. IEEE Transactions on Signal Processing, 2011, 59, 4438-4446.	5.3	79
40	Source-relay optimization for a two-way MIMO relay system. , 2010, , .		26
41	Optimal channel estimation and training design for MIMO relays. , 2010, , .		16
42	Optimality of Diagonalization of Multicarrier Multi-Hop Linear Non-Regenerative MIMO Relays. , 2010, , .		2
43	Energy cost for estimation in multihop wireless sensor networks. , 2010, , .		2
44	An overview of beamforming and power allocation for MIMO relays. , 2010, , .		28
45	Power Allocation for a MIMO Relay System With Multiple-Antenna Users. IEEE Transactions on Signal Processing, 2010, 58, 2823-2835.	5.3	92
46	Cooperative power scheduling for a network of MIMO links. IEEE Transactions on Wireless Communications, 2010, 9, 939-944.	9.2	8
47	A System for Detecting Unusual Sounds from Sound Environment Observed by Microphone Arrays. , 2009, , .		6
48	Energy Planning for Progressive Estimation in Multihop Sensor Networks. IEEE Transactions on Signal Processing, 2009, 57, 4052-4065.	5.3	33
49	A Unified Framework for Optimizing Linear Nonregenerative Multicarrier MIMO Relay Communication Systems. IEEE Transactions on Signal Processing, 2009, 57, 4837-4851.	5.3	321
50	Optimality of diagonalization of multi-hop MIMO relays. IEEE Transactions on Wireless Communications, 2009, 8, 6068-6077.	9.2	108
51	Space-Time Power Scheduling of MIMO Links—Fairness and QoS Considerations. IEEE Journal on Selected Topics in Signal Processing, 2008, 2, 171-180.	10.8	17
52	Capacity of Ultra-Wideband Power-Constrained Ad Hoc Networks. IEEE Transactions on Information Theory, 2008, 54, 916-920.	2.4	14
53	A distributed medium access control scheme for a large network of wireless routers. IEEE Transactions on Wireless Communications, 2008, 7, 1614-1622.	9.2	9
54	Optimal Power Schedule for Distributed MIMO Links. IEEE Transactions on Wireless Communications, 2008, 7, 2896-2900.	9.2	33

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55	Multi-Hop Progressive Decentralized Estimation of Deterministic Vector in Wireless Sensor Networks. Conference Record of the Asilomar Conference on Signals, Systems and Computers, 2007, , .	0.0	0
56	Distributed Medium Access for a Large Wireless Mesh Network with Multiple Antenna Elements on Each Node. , 2007, , .		0
57	Space-Time Power Schedule for Distributed MIMO Links Without Channel State Information at Transmitting Nodes. , 2007, , .		0
58	Cooperative Power Scheduling for Wireless MIMO Networks. , 2007, , .		19
59	Multihop Progressive Decentralized Estimation in Wireless Sensor Networks. IEEE Signal Processing Letters, 2007, 14, 1004-1007.	3.6	36
60	Optimal Design of Non-Regenerative MIMO Wireless Relays. IEEE Transactions on Wireless Communications, 2007, 6, 1398-1407.	9.2	631
61	A New Design of Differential Space-Time Block Code Allowing Symbol-Wise Decoding. IEEE Transactions on Wireless Communications, 2007, 6, 3197-3201.	9.2	5
62	A weighted linear prediction method for near-field source localization. IEEE Transactions on Signal Processing, 2005, 53, 3651-3660.	5.3	211
63	A sequential subspace method for blind identification of general FIR MIMO channels. IEEE Transactions on Signal Processing, 2005, 53, 3906-3910.	5.3	14
64	Bi-iterative least-square method for subspace tracking. IEEE Transactions on Signal Processing, 2005, 53, 2984-2996.	5.3	23
65	Asymptotical orthonormalization of subspace matrices without square root. IEEE Signal Processing Magazine, 2004, 21, 56-61.	5.6	13
66	On Convergence of the NIC Algorithm for Subspace Computation. IEEE Transactions on Signal Processing, 2004, 52, 1112-1115.	5.3	3
67	The geometry of weighted low-rank approximations. IEEE Transactions on Signal Processing, 2003, 51, 500-514.	5.3	78
68	Blind identification of FIR MIMO channels by decorrelating subchannels. IEEE Transactions on Signal Processing, 2003, 51, 1143-1155.	5.3	37
69	Maximum likelihood method for blind identification of multiple autoregressive channels. , 2003, , .		1
70	Separating colored signals distorted by convolutive channels using diagonal constrained decorrelation. , 2002, , .		1
71	Maximum likelihood method for blind identification of multiple autoregressive channels. , 0, , .		0
72	Blind identification and equalization of minimum-phase channels. , 0, , .		0

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73	Blind signal separation and blind system identification of irreducible MIMO channels. , 0, , .		2
74	Wireless antennas - making wireless communications perform like wireline communications. , 0, , .		40
75	Parallel wireless mobile relays with space-time modulations. , 0, , .		20
76	Application of space-time linear block codes to parallel wireless relays in mobile ad hoc networks. , 0, , .		19
77	Blind identification of FIR MIMO channels by group decorrelation. , 0, , .		3
78	Smart wireless antenna arrays. , 0, , .		2
79	Diversity analysis of orthogonal space-time modulation for distributed wireless relays. , 0, , .		25
80	Networking by parallel relays - diversity, lifetime and routing overhead. , 0, , .		6
81	A networking perspective of mobile parallel relays. , 0, , .		12
82	Stability of Wireless Relays in Mobile Ad Hoc Networks. , 0, , .		4
83	Combating Synchronization Errors in Cooperative Relays. , 0, , .		111
84	A Complete Family of Quasi-Orthogonal Space-time Codes. , 0, , .		3
85	Joint Source and Relay Optimization for a Non-Regenerative MIMO Relay. , 0, , .		83
86	Throughput of Large Wireless Networks on Square, Hexagonal and Triangular Grids. , 0, , .		8