

Yingbo Hua

List of Publications by Year in descending order

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3,149
citations

279701

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86
all docs

86
docs citations

86
times ranked

1748
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimal Design of Non-Regenerative MIMO Wireless Relays. IEEE Transactions on Wireless Communications, 2007, 6, 1398-1407.	6.1	631
2	A Unified Framework for Optimizing Linear Nonregenerative Multicarrier MIMO Relay Communication Systems. IEEE Transactions on Signal Processing, 2009, 57, 4837-4851.	3.2	321
3	A weighted linear prediction method for near-field source localization. IEEE Transactions on Signal Processing, 2005, 53, 3651-3660.	3.2	211
4	A Method for Broadband Full-Duplex MIMO Radio. IEEE Signal Processing Letters, 2012, 19, 793-796.	2.1	172
5	Achievable Rates of Full-Duplex MIMO Radios in Fast Fading Channels With Imperfect Channel Estimation. IEEE Transactions on Signal Processing, 2014, 62, 3874-3886.	3.2	172
6	Combating Synchronization Errors in Cooperative Relays. , 0, , .		111
7	Optimality of diagonalization of multi-hop MIMO relays. IEEE Transactions on Wireless Communications, 2009, 8, 6068-6077.	6.1	108
8	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.	6.1	100
9	Weighted Sum-Rate Maximization for Full-Duplex MIMO Interference Channels. IEEE Transactions on Communications, 2015, 63, 801-815.	4.9	95
10	Power Allocation for a MIMO Relay System With Multiple-Antenna Users. IEEE Transactions on Signal Processing, 2010, 58, 2823-2835.	3.2	92
11	Joint Source and Relay Optimization for a Non-Regenerative MIMO Relay. , 0, , .		83
12	Optimal Design of Source and Relay Pilots for MIMO Relay Channel Estimation. IEEE Transactions on Signal Processing, 2011, 59, 4438-4446.	3.2	79
13	The geometry of weighted low-rank approximations. IEEE Transactions on Signal Processing, 2003, 51, 500-514.	3.2	78
14	Radio self-interference cancellation by transmit beamforming, all-analog cancellation and blind digital tuning. Signal Processing, 2015, 108, 322-340.	2.1	47
15	Wireless antennas - making wireless communications perform like wireline communications. , 0, , .		40
16	MSE-Based Transceiver Designs for Full-Duplex MIMO Cognitive Radios. IEEE Transactions on Communications, 2015, 63, 2056-2070.	4.9	40
17	Blind identification of FIR MIMO channels by decorrelating subchannels. IEEE Transactions on Signal Processing, 2003, 51, 1143-1155.	3.2	37
18	Multihop Progressive Decentralized Estimation in Wireless Sensor Networks. IEEE Signal Processing Letters, 2007, 14, 1004-1007.	2.1	36

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19	Optimal Power Schedule for Distributed MIMO Links. IEEE Transactions on Wireless Communications, 2008, 7, 2896-2900.	6.1	33
20	Energy Planning for Progressive Estimation in Multihop Sensor Networks. IEEE Transactions on Signal Processing, 2009, 57, 4052-4065.	3.2	33
21	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.	6.1	33
22	Linear Transceiver Designs for MIMO Indoor Visible Light Communications Under Lighting Constraints. IEEE Transactions on Communications, 2017, 65, 2494-2508.	4.9	29
23	An overview of beamforming and power allocation for MIMO relays. , 2010, , .		28
24	Source-relay optimization for a two-way MIMO relay system. , 2010, , .		26
25	Fast Power Allocation for Secure Communication With Full-Duplex Radio. IEEE Transactions on Signal Processing, 2017, 65, 3846-3861.	3.2	26
26	Diversity analysis of orthogonal space-time modulation for distributed wireless relays. , 0, , .		25
27	Constellation Design for a Multicarrier Optical Wireless Communication Channel. IEEE Transactions on Communications, 2014, 62, 214-225.	4.9	25
28	Guest Editorial Theories and Methods for Advanced Wireless Relays “ Issue I. IEEE Journal on Selected Areas in Communications, 2012, 30, 1297-1303.	9.7	24
29	Advanced Properties of Full-Duplex Radio for Securing Wireless Network. IEEE Transactions on Signal Processing, 2019, 67, 120-135.	3.2	24
30	Bi-iterative least-square method for subspace tracking. IEEE Transactions on Signal Processing, 2005, 53, 2984-2996.	3.2	23
31	Parallel wireless mobile relays with space-time modulations. , 0, , .		20
32	Breaking the barrier of transmission noise in full-duplex radio. , 2013, , .		20
33	Application of space-time linear block codes to parallel wireless relays in mobile ad hoc networks. , 0, , .		19
34	Cooperative Power Scheduling for Wireless MIMO Networks. , 2007, , .		19
35	On Energy for Progressive and Consensus Estimation in Multihop Sensor Networks. IEEE Transactions on Signal Processing, 2011, 59, 3863-3875.	3.2	19
36	A Dual-Phase Power Allocation Scheme for Multicarrier Relay System With Direct Link. IEEE Transactions on Signal Processing, 2014, 62, 5-16.	3.2	18

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37	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.	6.1	18
38	Space-Time Power Scheduling of MIMO Linksâ€™Fairness and QoS Considerations. IEEE Journal on Selected Topics in Signal Processing, 2008, 2, 171-180.	7.3	17
39	Optimal channel estimation and training design for MIMO relays. , 2010, , .		16
40	Secrecy Analyses of a Full-Duplex MIMOME Network. IEEE Transactions on Signal Processing, 2019, 67, 5968-5982.	3.2	15
41	A sequential subspace method for blind identification of general FIR MIMO channels. IEEE Transactions on Signal Processing, 2005, 53, 3906-3910.	3.2	14
42	Capacity of Ultra-Wideband Power-Constrained Ad Hoc Networks. IEEE Transactions on Information Theory, 2008, 54, 916-920.	1.5	14
43	Asymptotical orthonormalization of subspace matrices without square root. IEEE Signal Processing Magazine, 2004, 21, 56-61.	4.6	13
44	A networking perspective of mobile parallel relays. , 0, , .		12
45	Optimal power allocation for a full-duplex multicarrier decode-forward relay system with or without direct link. Signal Processing, 2017, 137, 177-191.	2.1	10
46	Optimal Pilots for Anti-Eavesdropping Channel Estimation. IEEE Transactions on Signal Processing, 2020, 68, 2629-2644.	3.2	10
47	A distributed medium access control scheme for a large network of wireless routers. IEEE Transactions on Wireless Communications, 2008, 7, 1614-1622.	6.1	9
48	A numerical investigation of all-analog radio self-interference cancellation. , 2014, , .		9
49	Throughput of Large Wireless Networks on Square, Hexagonal and Triangular Grids. , 0, , .		8
50	Cooperative power scheduling for a network of MIMO links. IEEE Transactions on Wireless Communications, 2010, 9, 939-944.	6.1	8
51	Guest Editorial: Theories and Methods for Advanced Wireless Relays â€™ Issue II. IEEE Journal on Selected Areas in Communications, 2013, 31, 1361-1367.	9.7	8
52	Networking by parallel relays - diversity, lifetime and routing overhead. , 0, , .		6
53	A System for Detecting Unusual Sounds from Sound Environment Observed by Microphone Arrays. , 2009, , .		6
54	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.	4.5	6

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55	A New Design of Differential Space-Time Block Code Allowing Symbol-Wise Decoding. IEEE Transactions on Wireless Communications, 2007, 6, 3197-3201.	6.1	5
56	Stability of Wireless Relays in Mobile Ad Hoc Networks. , 0, , .		4
57	Optimal Pilots for Maximal Capacity of Secret Key Generation. , 2019, , .		4
58	Total Secrecy From Anti-Eavesdropping Channel Estimation. IEEE Transactions on Signal Processing, 2022, 70, 1088-1103.	3.2	4
59	Blind identification of FIR MIMO channels by group decorrelation. , 0, , .		3
60	On Convergence of the NIC Algorithm for Subspace Computation. IEEE Transactions on Signal Processing, 2004, 52, 1112-1115.	3.2	3
61	A Complete Family of Quasi-Orthogonal Space-time Codes. , 0, , .		3
62	Reliable and Secure Transmission for Future Networks. , 2020, , .		3
63	Secret Key Generation by Continuous Encryption Before Quantization. IEEE Signal Processing Letters, 2022, 29, 1497-1501.	2.1	3
64	Blind signal separation and blind system identification of irreducible MIMO channels. , 0, , .		2
65	Smart wireless antenna arrays. , 0, , .		2
66	Optimality of Diagonalization of Multicarrier Multi-Hop Linear Non-Regenerative MIMO Relays. , 2010, , .		2
67	Energy cost for estimation in multihop wireless sensor networks. , 2010, , .		2
68	Free-space optical multi-subcarrier communication employing power-efficient constellations. , 2014, , .		2
69	Unconditional Secrecy and Computational Complexity against Wireless Eavesdropping. , 2020, , .		2
70	Separating coloured signals distorted by convolutive channels using diagonal constrained decorrelation. , 2002, , .		1
71	Maximum likelihood method for blind identification of multiple autoregressive channels. , 2003, , .		1
72	Splitting source power for a multicarrier relay system with direct link. , 2013, , .		1

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73	Optimal training design and individual channel estimation for MIMO two-way relay systems in colored environment. , 2014, , .		1
74	Channel estimation and carrier recovery in the presence of phase noise in OFDM relay systems. , 2014, , .		1
75	A NEW LOOK AT SECRECY CAPACITY OF MIMOME USING ARTIFICIAL NOISE FROM ALICE AND BOB WITHOUT KNOWLEDGE OF EVEâ€™S CSI. , 2018, , .		1
76	Secure Downlink Transmission to Full-Duplex User against Randomly Located Eavesdroppers. , 2019, , .		1
77	Optimization of Multiple Access Channel Cooperation between Non-Ideal Full-Duplex Sources. , 2020, , .		1
78	Optimal Power Allocation for Cooperative Multiple Access With Non-Ideal Full-Duplex Sources. IEEE Transactions on Communications, 2021, 69, 2372-2386.	4.9	1
79	Maximum likelihood method for blind identification of multiple autoregressive channels. , 0, , .		0
80	Blind identification and equalization of minimum-phase channels. , 0, , .		0
81	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
82	Distributed Medium Access for a Large Wireless Mesh Network with Multiple Antenna Elements on Each Node. , 2007, , .		0
83	Space-Time Power Schedule for Distributed MIMO Links Without Channel State Information at Transmitting Nodes. , 2007, , .		0
84	Training slot allocation for mitigating estimation error propagation in a two-hop relaying system. , 2013, , .		0
85	Anti-Eavesdropping Channel Estimation Using Multi-Antenna Half-Duplex Radios. , 2021, , .		0
86	Physical Layer Encryption for UAV-to-Ground Communications. , 2022, , .		0