

Shaoshi Yang

List of Publications by Year in descending order

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papers

2,268
citations

361388

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66
all docs

66
docs citations

66
times ranked

2473
citing authors

#	ARTICLE	IF	CITATIONS
1	Fifty Years of MIMO Detection: The Road to Large-Scale MIMOs. IEEE Communications Surveys and Tutorials, 2015, 17, 1941-1988.	39.4	538
2	A Survey of Multi-Objective Optimization in Wireless Sensor Networks: Metrics, Algorithms, and Open Problems. IEEE Communications Surveys and Tutorials, 2017, 19, 550-586.	39.4	317
3	An ESPRIT-Based Approach for 2-D Localization of Incoherently Distributed Sources in Massive MIMO Systems. IEEE Journal on Selected Topics in Signal Processing, 2014, 8, 996-1011.	10.8	184
4	Achieving Maximum Energy-Efficiency in Multi-Relay OFDMA Cellular Networks: A Fractional Programming Approach. IEEE Transactions on Communications, 2013, 61, 2746-2757.	7.8	142
5	Secrecy Transmit Beamforming for Heterogeneous Networks. IEEE Journal on Selected Areas in Communications, 2015, 33, 1154-1170.	14.0	124
6	Energy Efficient OFDMA Networks Maintaining Statistical QoS Guarantees for Delay-Sensitive Traffic. IEEE Access, 2016, 4, 774-791.	4.2	80
7	Distributed Energy Spectral Efficiency Optimization for Partial/Full Interference Alignment in Multi-user Multi-relay Multi-cell MIMO Systems. IEEE Transactions on Signal Processing, 2016, 64, 882-896.	5.3	68
8	Semi-Blind Channel Estimation Relying on Optimum Pilots Designed for Multi-Cell Large-Scale MIMO Systems. IEEE Access, 2016, 4, 1190-1204.	4.2	55
9	A beamspace approach for 2-D localization of incoherently distributed sources in massive MIMO systems. Signal Processing, 2016, 121, 30-45.	3.7	48
10	Zero-Forcing Based MIMO Two-Way Relay with Relay Antenna Selection: Transmission Scheme and Diversity Analysis. IEEE Transactions on Wireless Communications, 2012, 11, 4426-4437.	9.2	46
11	User Relay Assisted Traffic Shifting in LTE-Advanced Systems. , 2013, , .		43
12	Space-Time Hierarchical-Graph Based Cooperative Localization in Wireless Sensor Networks. IEEE Transactions on Signal Processing, 2016, 64, 322-334.	5.3	37
13	Robust Beamforming and Jamming for Enhancing the Physical Layer Security of Full Duplex Radios. IEEE Transactions on Information Forensics and Security, 2019, 14, 3151-3159.	6.9	37
14	Power Allocation Optimization for Energy-Efficient Massive MIMO Aided Multi-Pair Decode-and-Forward Relay Systems. IEEE Transactions on Communications, 2017, 65, 2368-2381.	7.8	35
15	Low-Complexity Downlink User Selection for Massive MIMO Systems. IEEE Systems Journal, 2017, 11, 1072-1083.	4.6	32
16	Spectral and Energy Spectral Efficiency Optimization of Joint Transmit and Receive Beamforming Based Multi-Relay MIMO-OFDMA Cellular Networks. IEEE Transactions on Wireless Communications, 2014, 13, 6147-6165.	9.2	30
17	Unified Bit-Based Probabilistic Data Association Aided MIMO Detection for High-Order QAM Constellations. IEEE Transactions on Vehicular Technology, 2011, 60, 981-991.	6.3	26
18	Limited Feedback-Based Interference Alignment for Interfering Multi-Access Channels. IEEE Communications Letters, 2014, 18, 540-543.	4.1	26

#	ARTICLE	IF	CITATIONS
19	Iterative Distributed Minimum Total MSE Approach for Secure Communications in MIMO Interference Channels. IEEE Transactions on Information Forensics and Security, 2016, 11, 594-608.	6.9	24
20	From Nominal to True A Posteriori Probabilities: An Exact Bayesian Theorem Based Probabilistic Data Association Approach for Iterative MIMO Detection and Decoding. IEEE Transactions on Communications, 2013, 61, 2782-2793.	7.8	23
21	Near-Optimal Layer Placement for Scalable Videos in Cache-Enabled Small-Cell Networks. IEEE Transactions on Vehicular Technology, 2018, 67, 9047-9051.	6.3	22
22	Optimal ALOHA-Like Random Access With Heterogeneous QoS Guarantees for Multi-Packet Reception Aided Visible Light Communications. IEEE Transactions on Wireless Communications, 2016, 15, 7872-7884.	9.2	20
23	Joint Angle Estimation and Signal Reconstruction for Coherently Distributed Sources in Massive MIMO Systems Based on 2-D Unitary ESPRIT. IEEE Access, 2017, 5, 9632-9646.	4.2	19
24	Semidefinite Programming Relaxation Based Virtually Antipodal Detection for MIMO Systems Using Gray-Coded High-Order QAM. IEEE Transactions on Vehicular Technology, 2013, 62, 1667-1677.	6.3	18
25	Distributed Probabilistic-Data-Association-Based Soft Reception Employing Base Station Cooperation in MIMO-Aided Multiuser Multicell Systems. IEEE Transactions on Vehicular Technology, 2011, 60, 3532-3538.	6.3	17
26	Achieving Full Diversity in Multi-Antenna Two-Way Relay Networks via Symbol-Based Physical-Layer Network Coding. IEEE Transactions on Wireless Communications, 2013, 12, 3445-3457.	9.2	17
27	Flexible Resource Allocation for Joint Optimization of Energy and Spectral Efficiency in OFDMA Multi-Cell Networks. IEEE Communications Letters, 2015, 19, 451-454.	4.1	17
28	Energy-efficient joint communication-motion planning for relay-assisted wireless robot surveillance. , 2017, , .		17
29	Is the Low-Complexity Mobile-Relay-Aided FFR-DAS Capable of Outperforming the High-Complexity CoMP?. IEEE Transactions on Vehicular Technology, 2016, 65, 2154-2169.	6.3	15
30	Physical Detection of Misbehavior in Relay Systems With Unreliable Channel State Information. IEEE Journal on Selected Areas in Communications, 2018, 36, 1517-1530.	14.0	15
31	Adaptive Multi-Channel MAC Protocol for Dense VANET with Directional Antennas. , 2009, , .		14
32	A Low Complexity Approach of Combining Cooperative Diversity and Multiuser Diversity in Multiuser Cooperative Networks. IEEE Transactions on Signal Processing, 2013, 61, 6247-6256.	5.3	13
33	Detecting Byzantine Attacks Without Clean Reference. IEEE Transactions on Information Forensics and Security, 2016, 11, 2717-2731.	6.9	13
34	IFI and ISI Premitigation for Block-Code-Modulated Noncoherent UWB Impulse Radio: A Code Optimization Approach. IEEE Transactions on Vehicular Technology, 2012, 61, 1635-1648.	6.3	11
35	Approximate Bayesian Probabilistic-Data-Association-Aided Iterative Detection for MIMO Systems Using Arbitrary M-ary Modulation. IEEE Transactions on Vehicular Technology, 2013, 62, 1228-1240.	6.3	11
36	Large-scale MIMO is capable of eliminating power-thirsty channel coding for wireless transmission of HEVC/H.265 video. IEEE Wireless Communications, 2016, 23, 57-63.	9.0	11

#	ARTICLE	IF	CITATIONS
37	Achieving Maximum Effective Capacity in OFDMA Networks Operating Under Statistical Delay Guarantee. IEEE Access, 2017, 5, 14333-14346.	4.2	11
38	Achieving Energy-Efficient Uplink URLLC With MIMO-Aided Grant-Free Access. IEEE Transactions on Wireless Communications, 2022, 21, 1407-1420.	9.2	11
39	Maximizing energy-efficiency in multi-relay OFDMA cellular networks. , 2013, , .		10
40	Vehicle-Assisted Offloading on Metropolitan Streets: Enhancing Geographical Fluidity of Wireless Resources. IEEE Wireless Communications Letters, 2017, 6, 622-625.	5.0	10
41	Wireless information and energy transfer in multi-cluster MIMO uplink networks through opportunistic interference alignment. IEEE Access, 2016, 4, 3100-3111.	4.2	9
42	A recurrent video quality enhancement framework with multi-granularity frame-fusion and frame difference based attention. Neurocomputing, 2021, 431, 34-46.	5.9	9
43	Adaptive antenna-activation based beamforming for large-scale MIMO communication systems of high speed railway. China Communications, 2016, 13, 12-23.	3.2	8
44	Round-Robin Relaying With Diversity in Amplify-and-Forward Multisource Cooperative Communications. IEEE Transactions on Vehicular Technology, 2013, 62, 1251-1266.	6.3	5
45	Phase-Rotation-Aided Relay Selection in Two-Way Decode-and-Forward Relay Networks. IEEE Transactions on Vehicular Technology, 2016, 65, 2922-2935.	6.3	5
46	Approximate Minimum BER Power Allocation for MIMO-THP System. , 2008, , .		4
47	Iterative detection and decoding using approximate bayesian theorem based PDA method over MIMO Nakagami-m fading channels. , 2012, , .		3
48	On the Energy Efficiency of Interference Alignment in the K -User Interference Channel. IEEE Access, 2019, 7, 97253-97263.	4.2	3
49	Exact Bayes' theorem based probabilistic data association for iterative MIMO detection and decoding. , 2013, , .		2
50	A Belief Propagation-Based Framework for Soft Multiple-Symbol Differential Detection. IEEE Transactions on Wireless Communications, 2016, 15, 7128-7142.	9.2	2
51	An Approach to Reduce the Overhead of Training Sequences in FDD Massive MIMO Downlink Systems. IEEE Wireless Communications Letters, 2019, 8, 1301-1305.	5.0	2
52	Predictive Voice-Over-Internet Protocol Fallback Over Vehicular Channels: Employing Artificial Intelligence at the Edge of 5G Networks. IEEE Vehicular Technology Magazine, 2020, 15, 72-78.	3.4	2
53	Multi-Group Frequency Hopping OFDMA Based on Statistical Multiplexing. , 2008, , .		1
54	Simulated Annealing based multiuser detection for synchronous SDMA system. , 2008, , .		1

#	ARTICLE	IF	CITATIONS
55	A Novel Probabilistic Data Association Based MIMO Detector Using Joint Detection of Consecutive Symbol Vectors. , 2009, , .		1
56	Unified Bit-based Probabilistic Data Association aided MIMO detection for high-order QAM. , 2011, , .		1
57	Base Station Cooperation in MIMO-Aided Multi-User Multi-Cell Systems Employing Distributed Probabilistic Data Association Based Soft Reception. , 2011, , .		1
58	Spatial overlapping index based joint beam selection for millimeter-wave multiuser MIMO systems. Signal Processing, 2020, 167, 107321.	3.7	1
59	Linear network coding based fast data synchronization for wireless ad hoc networks with controlled topology. China Communications, 2022, 19, 46-53.	3.2	1
60	A probabilistic data association based MIMO detector using joint detection of consecutive symbol vectors. , 2008, , .		0
61	Utility Greedy Discrete Bit Loading for Interference Limited Multi-Cell OFDM System. , 2010, , .		0
62	Semidefinite Programming Relaxation Based Virtually Antipodal Detection for Gray Coded 16-QAM MIMO Signalling. , 2011, , .		0
63	Joint transmit and receive beamforming for multi-relay MIMO-OFDMA cellular networks. , 2016, , .		0
64	A Viewport Prediction Framework for Panoramic Videos. , 2020, , .		0
65	A study on CSI feedback schemes exploiting feedforward information in FDD cellular systems. Transactions on Emerging Telecommunications Technologies, 2021, 32, .	3.9	0
66	Channel-Quality Reporting Enabled by Machine Learning in Non-Stationary Environments. , 2020, , .		0