Shaoshi Yang

List of Publications by Citations

55 papers	1,630 citations	19 h-index	39 g-index
66 ext. papers	2,038 ext. citations	7.1 avg, IF	5.26 L-index

#	Paper	IF	Citations
55	Fifty Years of MIMO Detection: The Road to Large-Scale MIMOs. *IEEE Communications Surveys and Tutorials*, **2015**, 17, 1941-1988	37.1	330
54	A Survey of Multi-Objective Optimization in Wireless Sensor Networks: Metrics, Algorithms, and Open Problems. *IEEE Communications Surveys and Tutorials*, **2017**, 19, 550-586	37.1	227
53	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	7.5	144
52	Achieving Maximum Energy-Efficiency in Multi-Relay OFDMA Cellular Networks: A Fractional Programming Approach. *IEEE Transactions on Communications*, **2013**, 61, 2746-2757	6.9	127
51	Secrecy Transmit Beamforming for Heterogeneous Networks. *IEEE Journal on Selected Areas in Communications*, **2015**, 33, 1154-1170	14.2	103
50	. *IEEE Access*, **2016**, 4, 774-791	3.5	49
49	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	4.8	38
48	Semi-Blind Channel Estimation Relying on Optimum Pilots Designed for Multi-Cell Large-Scale MIMO Systems. *IEEE Access*, **2016**, 4, 1190-1204	3.5	38
47	A beamspace approach for 2-D localization of incoherently distributed sources in massive MIMO systems. *Signal Processing*, **2016**, 121, 30-45	4.4	35
46	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	9.6	35
45	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	8	30
44	Power Allocation Optimization for Energy-Efficient Massive MIMO Aided Multi-Pair Decode-and-Forward Relay Systems. *IEEE Transactions on Communications*, **2017**, 65, 2368-2381	6.9	29
43	Space-Time Hierarchical-Graph Based Cooperative Localization in Wireless Sensor Networks. *IEEE Transactions on Signal Processing*, **2016**, 64, 322-334	4.8	28
42	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	9.6	26
41	. *IEEE Systems Journal*, **2017**, 11, 1072-1083	4.3	24
40	Unified Bit-Based Probabilistic Data Association Aided MIMO Detection for High-Order QAM Constellations. *IEEE Transactions on Vehicular Technology*, **2011**, 60, 981-991	6.8	23
39	Iterative Distributed Minimum Total MSE Approach for Secure Communications in MIMO Interference Channels. *IEEE Transactions on Information Forensics and Security*, **2016**, 11, 594-608	8	21

38	Limited Feedback-Based Interference Alignment for Interfering Multi-Access Channels. *IEEE Communications Letters*, **2014**, 18, 540-543	3.8	21
37	User Relay Assisted Traffic Shifting in LTE-Advanced Systems **2013**,		21
36	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	6.9	18
35	. *IEEE Transactions on Vehicular Technology*, **2013**, 62, 1667-1677	6.8	16
34	Near-Optimal Layer Placement for Scalable Videos in Cache-Enabled Small-Cell Networks. *IEEE Transactions on Vehicular Technology*, **2018**, 67, 9047-9051	6.8	16
33	. *IEEE Transactions on Wireless Communications*, **2013**, 12, 3445-3457	9.6	15
32	Flexible Resource Allocation for Joint Optimization of Energy and Spectral Efficiency in OFDMA Multi-Cell Networks. *IEEE Communications Letters*, **2015**, 19, 451-454	3.8	15
31	. *IEEE Access*, **2017**, 5, 9632-9646	3.5	14
30	Energy-efficient joint communication-motion planning for relay-assisted wireless robot surveillance **2017**,		14
29	. *IEEE Transactions on Vehicular Technology*, **2016**, 65, 2154-2169	6.8	13
28	Physical Detection of Misbehavior in Relay Systems With Unreliable Channel State Information. *IEEE Journal on Selected Areas in Communications*, **2018**, 36, 1517-1530	14.2	13
27	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	9.6	13
26	Detecting Byzantine Attacks Without Clean Reference. *IEEE Transactions on Information Forensics and Security*, **2016**, 11, 2717-2731	8	11
25	. *IEEE Transactions on Vehicular Technology*, **2013**, 62, 1228-1240	6.8	11
24	A Low Complexity Approach of Combining Cooperative Diversity and Multiuser Diversity in Multiuser Cooperative Networks. *IEEE Transactions on Signal Processing*, **2013**, 61, 6247-6256	4.8	11
23	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	6.8	11
22	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	13.4	10
21	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	6.8	8

20	Vehicle-Assisted Offloading on Metropolitan Streets: Enhancing Geographical Fluidity of Wireless Resources. *IEEE Wireless Communications Letters*, **2017**, 6, 622-625	5.9	8
19	Maximizing energy-efficiency in multi-relay OFDMA cellular networks **2013**,		8
18	Adaptive Multi-Channel MAC Protocol for Dense VANET with Directional Antennas **2009**,		8
17	Achieving Maximum Effective Capacity in OFDMA Networks Operating Under Statistical Delay Guarantee. *IEEE Access*, **2017**, 5, 14333-14346	3.5	7
16	Wireless information and energy transfer in multi-cluster MIMO uplink networks through opportunistic interference alignment. *IEEE Access*, **2016**, 4, 3100-3111	3.5	7
15	. *China Communications*, **2016**, 13, 12-23	3	6
14	Round-Robin Relaying With Diversity in Amplify-and-Forward Multisource Cooperative Communications. *IEEE Transactions on Vehicular Technology*, **2013**, 62, 1251-1266	6.8	5
13	. *IEEE Transactions on Vehicular Technology*, **2016**, 65, 2922-2935	6.8	4
12	Iterative detection and decoding using approximate bayesian theorem based PDA method over MIMO Nakagami-m fading channels **2012**,		3
11	A recurrent video quality enhancement framework with multi-granularity frame-fusion and frame difference based attention. *Neurocomputing*, **2021**, 431, 34-46	5.4	3
10	Achieving Energy-Efficient Uplink URLLC with MIMO-Aided Grant-Free Access. *IEEE Transactions on Wireless Communications*, **2021**, 1-1	9.6	3
9	A Belief Propagation-Based Framework for Soft Multiple-Symbol Differential Detection. *IEEE Transactions on Wireless Communications*, **2016**, 15, 7128-7142	9.6	1
8	On the Energy Efficiency of Interference Alignment in the K -User Interference Channel. *IEEE Access*, **2019**, 7, 97253-97263	3.5	1
7	An Approach to Reduce the Overhead of Training Sequences in FDD Massive MIMO Downlink Systems. *IEEE Wireless Communications Letters*, **2019**, 8, 1301-1305	5.9	1
6	Exact BayesUtheorem based probabilistic data association for iterative MIMO detection and decoding **2013**,		1
5	Approximate Minimum BER Power Allocation for MIMO-THP System **2008**,		1
4	Multi-Group Frequency Hopping OFDMA Based on Statistical Multiplexing **2008**,		1
3	Spatial overlapping index based joint beam selection for millimeter-wave multiuser MIMO systems. *Signal Processing*, **2020**, 167, 107321	4.4	1

2	. *IEEE Vehicular Technology Magazine*, **2020**, 15, 72-78	9.9	0
1	. *China Communications*, **2021**, 1-8	3	