

Shidong Zhou

List of Publications by Year in descending order

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135
papers

1,780
citations

567144

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h-index

360920

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all docs

135
docs citations

135
times ranked

1747
citing authors

#	ARTICLE	IF	CITATIONS
1	Spectrum and Energy-Efficient Beamspace MIMO-NOMA for Millimeter-Wave Communications Using Lens Antenna Array. IEEE Journal on Selected Areas in Communications, 2017, 35, 2370-2382.	9.7	275
2	Capacity analysis in CDMA distributed antenna systems. IEEE Transactions on Wireless Communications, 2005, 4, 2613-2620.	6.1	134
3	Green 5G Heterogeneous Networks Through Dynamic Small-Cell Operation. IEEE Journal on Selected Areas in Communications, 2016, 34, 1103-1115.	9.7	126
4	Robust and Low Complexity Hybrid Beamforming for Uplink Multiuser MmWave MIMO Systems. IEEE Communications Letters, 2016, 20, 1140-1143.	2.5	105
5	On the Monotonicity, Log-Concavity, and Tight Bounds of the Generalized Marcum and Nuttall Q -Functions. IEEE Transactions on Information Theory, 2010, 56, 1166-1186.	1.5	90
6	Wideband Beamspace Channel Estimation for Millimeter-Wave MIMO Systems Relying on Lens Antenna Arrays. IEEE Transactions on Signal Processing, 2019, 67, 4809-4824.	3.2	80
7	Information-theoretic capacity analysis in MIMO distributed antenna systems. , 0, , .		48
8	Capacity Analysis for Spatially Non-Wide Sense Stationary Uplink Massive MIMO Systems. IEEE Transactions on Wireless Communications, 2015, 14, 7044-7056.	6.1	48
9	Fading Characteristics of Wireless Channel on High-Speed Railway in Hilly Terrain Scenario. International Journal of Antennas and Propagation, 2013, 2013, 1-9.	0.7	46
10	Coverage Probability Analysis of UAV Cellular Networks in Urban Environments. , 2018, , .		44
11	Distributed Power Allocation for Coordinated Multipoint Transmissions in Distributed Antenna Systems. IEEE Transactions on Wireless Communications, 2013, 12, 2281-2291.	6.1	39
12	Massive MIMO with multi-antenna users: When are additional user antennas beneficial?. , 2016, , .		38
13	Downlink Capacity of Distributed Antenna Systems in a Multi-Cell Environment. , 2009, , .		36
14	Coordinated Multi-Cell Transmission for Distributed Antenna Systems with Partial CSIT. IEEE Communications Letters, 2012, 16, 1044-1047.	2.5	36
15	A Multi-Cell MMSE Precoder for Massive MIMO Systems and New Large System Analysis. , 2015, , .		32
16	Downlink Power Allocation for Distributed Antenna Systems with Random Antenna Layout. , 2009, , .		28
17	On the Deployment of Antenna Elements in Generalized Multi-User Distributed Antenna Systems. Mobile Networks and Applications, 2011, 16, 35-45.	2.2	27
18	Joint Deployment of Small Cells and Wireless Backhaul Links in Next-Generation Networks. IEEE Communications Letters, 2015, 19, 2250-2253.	2.5	27

#	ARTICLE	IF	CITATIONS
19	A Multi-Cell MMSE Detector for Massive MIMO Systems and New Large System Analysis. , 2015, , .		25
20	Wireless channel feature extraction via GMM and CNN in the tomographic channel model. Journal of Communications and Information Networks, 2017, 2, 41-51.	3.5	25
21	Joint power allocation for multi-cell distributed antenna systems with large-scale CSIT. , 2012, , .		23
22	Sparse Bayesian learning based user detection and channel estimation for SCMA uplink systems. , 2015, , .		23
23	A parallel interleaver design for IDMA systems. , 2009, , .		18
24	Geometry-Based Stochastic Channel Model for High-Speed Railway Communications. IEEE Transactions on Vehicular Technology, 2019, 68, 4353-4366.	3.9	18
25	Capacity Region Bounds and Resource Allocation for Two-Way OFDM Relay Channels. IEEE Transactions on Wireless Communications, 2013, 12, 2904-2917.	6.1	17
26	A General Coupling-Based Model Framework for Wideband MIMO Channels. IEEE Transactions on Antennas and Propagation, 2012, 60, 574-586.	3.1	15
27	Propagation Characteristics of Air-to-Air Channels in Urban Environments. , 2018, , .		15
28	Receive antenna selection in the downlink of multiuser MIMO systems. , 0, , .		14
29	Unmanned Aerial Vehicle Communications: Path-Loss Modeling and Evaluation. IEEE Vehicular Technology Magazine, 2020, 15, 121-128.	2.8	14
30	Sum Rate Characterization of Distributed Antenna Systems with Circular Antenna Layout. , 2009, , .		13
31	On rate region analysis of full-duplex cellular system with inter-user interference cancellation. , 2015, , .		13
32	Dynamic Channel Model With Overhead Line Poles for High-Speed Railway Communications. IEEE Antennas and Wireless Propagation Letters, 2018, 17, 903-906.	2.4	12
33	Coordinated User Scheduling for Multi-Cell Distributed Antenna Systems. , 2011, , .		11
34	Blockage Modeling for Inter-layer UAVs Communications in Urban Environments. , 2018, , .		11
35	ICI Analysis of MIMO-OFDM Systems with Independent Phase Noise at Both Transmit and Receive Antennas. , 2009, , .		10
36	Power coverage and fading characteristics of indoor distributed antenna systems. , 2009, , .		10

#	ARTICLE	IF	CITATIONS
37	The Access Procedure Design for Low Latency in 5G Cellular Network. , 2016, , .		10
38	Energy-efficient Butler-matrix-based hybrid beamforming for multiuser mmWave MIMO system. Science China Information Sciences, 2017, 60, 1.	2.7	9
39	Low Complexity Decoding Method for SCMA in Uplink Random Access. , 2016, , .		7
40	Deployment of 5G networking infrastructure with machine type communication considerations. , 2016, , .		7
41	Downlink Power Allocation for Distributed Antenna Systems in a Multi-Cell Environment. , 2009, , .		6
42	Optimal Real-Time Spectrum Sharing Between Cooperative Relay and Ad hoc Networks. IEEE Transactions on Signal Processing, 2012, 60, 1971-1985.	3.2	6
43	3.52-GHz MIMO radio channel sounder. , 2008, , .		5
44	Tight Bounds of the Generalized Marcum Q-Function Based on Log-Concavity. , 2008, , .		5
45	On the Optimal Radius to Deploy Antennas in Multi-user Distributed Antenna System with Circular Antenna Layout. , 2009, , .		5
46	A Novel Evaluation Method for the Downlink Capacity of Distributed Antenna Systems. IEICE Transactions on Communications, 2009, E92-B, 2226-2230.	0.4	5
47	Rician K-factor analysis of in-cabin distributed MIMO system measurements. , 2011, , .		5
48	Optimal power allocation for two-way decode-and-forward OFDM relay networks. , 2012, , .		5
49	Message Authentication over Noisy Channels. Entropy, 2015, 17, 368-383.	1.1	5
50	Superposition coding based inter-user interference cancellation in full duplex cellular system. , 2016, , .		5
51	User detection and channel estimation for SCMA uplink system in dispersive channel. , 2016, , .		5
52	Queue-aware energy-efficient scheduling and power allocation in small-cell networks with interference. , 2016, , .		5
53	Eavesdropping area for evaluating the security of wireless communications. China Communications, 2022, 19, 145-157.	2.0	5
54	Blind multiuser detection based on chebyshev approximation. , 0, , .		4

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55	Closed-form capacity expressions for SIMO channels with correlated fading. , 0, , .		4
56	Transmit antenna selection with power and rate allocation for spatial multiplexing in distributed antenna systems. Tsinghua Science and Technology, 2006, 11, 259-263.	4.1	4
57	Channel Prediction Assisted By Radio Propagation Environments Information. , 2008, , .		4
58	A Novel Coupling-Based Model for Wideband MIMO Channel. , 2009, , .		4
59	Analysis of Transmitter Phase Noise in OFDM System and its Mitigation. , 2009, , .		4
60	On Power Consumption of Multi-user Distributed Wireless Communication Systems. , 2010, , .		4
61	Power-Efficient Distributed Beamforming for Multiple Full-Duplex Relays Aided Multiuser Networks. , 2015, , .		4
62	Coverage Analysis and optimization of UAV Networks with Directional Antennas. , 2018, , .		4
63	Capacity autocorrelation characteristic of MIMO systems over Doppler spread channels. , 0, , .		3
64	Joint Stream-Wise THP Transceiver Design for the Multiuser MIMO Downlink. , 2008, , .		3
65	Joint Power and Channel Resource Allocation for F/TDMA Decode and Forward Relay Networks. , 2009, , .		3
66	A novel GPP-based Software-Defined Radio architecture. , 2012, , .		3
67	Optimization of AP placement in indoor fingerprint positioning. , 2013, , .		3
68	Pilot allocation for doubly selective channel estimation in OFDM systems. , 2013, , .		3
69	Modeling and analysis of an opportunistic transmission scheme based on channel quality information in multi-channel cognitive networks. , 2013, , .		3
70	Measurement-based RSS-multipath neural network indoor positioning technique. , 2014, , .		3
71	Physical layer security game with full-duplex proactive eavesdropper. , 2016, , .		3
72	mmWave mobile communication under hypercellular architecture. Journal of Communications and Information Networks, 2016, 1, 62-76.	3.5	3

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73	An improved HARQ scheme for SCMA under random access. , 2017, , .		3
74	A new calculation on the mean capacity of MIMO systems over Rayleigh fading channels. , 0, , .		2
75	A novel blind multiuser detection algorithm based on support vector machines. , 0, , .		2
76	An iterative decoding scheme with turbo code and iteratively demapped multi-dimensional QPSK serially concatenated. , 2005, , .		2
77	Precoding in the multiuser MIMO downlink based on subspace tracking techniques. , 0, , .		2
78	A subcarrier average based block-by-block blind channel estimation algorithm for multi-user OFDM systems. , 2007, , .		2
79	A cooperative transmission strategy for uplink cellular systems. , 2008, , .		2
80	On the size of antenna cluster in multi-user distributed antenna systems. , 2008, , .		2
81	On the Downlink Capacity of Distributed Antenna Systems with Random Antenna Layout. , 2009, , .		2
82	Performance Analysis in Cognitive Radio Systems with Multiple Antennas. IEICE Transactions on Communications, 2010, E93-B, 182-186.	0.4	2
83	Optimal cooperative energy spectrum sensing in cognitive radio network. Frontiers of Electrical and Electronic Engineering in China: Selected Publications From Chinese Universities, 2010, 5, 449-455.	0.6	2
84	Corrections to "Unified Laguerre Polynomial-Series-Based Distribution of Small-Scale Fading Envelopes" [Oct 09 3988-3999]. IEEE Transactions on Vehicular Technology, 2011, 60, 347-349.	3.9	2
85	Queue-aware energy-efficient scheduling in small-cell networks. , 2014, , .		2
86	Dynamic base station selection strategies based on location fingerprinting. , 2015, , .		2
87	Secrecy rate region of independent parallel multiple-carrier two-way secure communications with secure feedback. , 2015, , .		2
88	A Low-Complexity Pilot Reuse Scheme to Increase the Throughput of Massive MIMO. , 2015, , .		2
89	An Iterative Power Allocation Scheme for Improving Energy Efficiency in Massively Dense Distributed Antenna Systems. , 2016, , .		2
90	Dynamic on/off control of wireless small cells with heterogeneous backhuls. , 2016, , .		2

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91	On Ergodic Capacity of Spectrum-Sharing Systems in Fading Channels. IEICE Transactions on Communications, 2009, E92-B, 1904-1907.	0.4	2
92	Joint Stream-Wise THP Transceiver Design for the Multiuser MIMO Downlink. IEICE Transactions on Communications, 2009, E92-B, 209-218.	0.4	2
93	Practical Power Allocation for Cooperative Distributed Antenna Systems. IEICE Transactions on Communications, 2010, E93-B, 2424-2427.	0.4	2
94	Parallel decoding of turbo product codes for high data rate communication. , 0, , .		1
95	Polynomial Expansion Based Fast Iterative Multiuser Detection Algorithm For Synchronous DS-CDMA Systems. , 0, , .		1
96	Multi-dimensional MPSK for Iterative Demapping over AWGN and Rayleigh Fading Channels. , 0, , .		1
97	Channel Assignment in Multi-Radio Wireless Ad Hoc Networks. , 2006, , .		1
98	Multi-mode Precoding for Correlated MIMO Channels with Minimum BER Selection Criterion. , 0, , .		1
99	A Blind Post-FFT User-by-user Beamforming Algorithm for Multiuser OFDM Systems. , 2007, , .		1
100	Non-Cancellation Multistage Kurtosis Maximization with Prewhitening for Blind Source Separation. Conference Record of the Asilomar Conference on Signals, Systems and Computers, 2007, , .	0.0	1
101	Sum rate and power consumption of a circular-layout distributed antenna system with MMSE receivers. Tsinghua Science and Technology, 2008, 13, 759-768.	4.1	1
102	Multiuser MIMO downlink transmission schemes over time-varying channels. Tsinghua Science and Technology, 2008, 13, 769-777.	4.1	1
103	Opportunistic Cooperation with Node Selection Based on Power Allocation. , 2008, , .		1
104	Wideband wireless channel predictor relying on environment information. , 2008, , .		1
105	Downlink Linear Max-MSE Transceiver Design for Multiuser MIMO Systems Via Dual Decomposition. IEEE Vehicular Technology Conference, 2008, , .	0.2	1
106	An optimal OSA approach based on channel-usage estimate under collision probability constraint in cognitive radio systems. Annales Des Telecommunications/Annals of Telecommunications, 2009, 64, 557-572.	1.6	1
107	Cooperative Opportunistic Scheduling in Multiple Antenna Cellular Networks. , 2009, , .		1
108	Corrections to the Proof in 'Coordinated Beamforming for the Multicell Multi-Antenna Wireless System'. IEEE Transactions on Wireless Communications, 2011, 10, 4366-4367.	6.1	1

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109	Mutual Information Evolution Based Performance Analysis in IDMA System. , 2011, , .		1
110	Spectrum Sharing between Cooperative Relay and Ad-Hoc Networks: Dynamic Transmissions under Computation and Signaling Limitations. , 2011, , .		1
111	Per-layer transmit and receive filters design for Tomlinson-Harashima precoding in multiuser MIMO systems. Science China Information Sciences, 2012, 55, 839-849.	2.7	1
112	An anti-overflow control method of state metrics for high throughput Turbo decoder. , 2012, , .		1
113	Measurement-Based Analysis of Transmit Antenna Selection for In-Cabin Distributed MIMO System. International Journal of Antennas and Propagation, 2012, 2012, 1-6.	0.7	1
114	Robust Opportunistic Spectrum Access based on channel quality information in varying multi-channel networks. , 2013, , .		1
115	Cluster Information based User Scheduling for Multiuser MIMO Systems. , 2014, , .		1
116	Performance of massive MIMO with zero-forcing beamforming and reduced downlink pilots. , 2014, , .		1
117	A SDN/NFV-based Core Network Slicing for Secure Mobile Communication. , 2020, , .		1
118	Optimal Information Update for Energy Harvesting Sensor with Reliable Backup Energy. Entropy, 2022, 24, 961.	1.1	1
119	Performance of zero-padded OFDM-CDMA signals. , 0, , .		0
120	Frequency-domain equalization using iterative channel estimation for high-speed transmission cyclic-prefix MC-DS-CDMA. , 0, , .		0
121	A novel SIC-PIC iterative detector with turbo code under multipath Rayleigh fading MIMO channel. , 0, , .		0
122	A novel adaptive MIMO precoding scheme for VBLAST systems. , 0, , .		0
123	Joint maximum-likelihood and mmse channel estimator for uwb communications. Tsinghua Science and Technology, 2006, 11, 568-573.	4.1	0
124	Capacity of Training-Based V-BLAST System with LMMSE Receiver in Continuously Fading Channels. , 2007, , .		0
125	A Novel Power Control Approach Based on Greedy Monte Carlo Method in Cognitive Radio System. , 2008, , .		0
126	A novel femtocell open access mechanism in the uplink in the CDMA system. , 2010, , .		0

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127	A cross-band cooperation architecture for spectrum efficiency improvement. , 2011, , .		0
128	Effect of nonlinearities in wireless communication with digital receiver. , 2013, , .		0
129	Opportunistic spectrum access based on channel quality under general collision constraints. , 2013, , .		0
130	How to upgrade wireless networks: Small cells or massive MIMO?. , 2014, , .		0
131	Feedback Reduction for Queue-aware Coordinated Multi-user Scheduling in Small-cell Networks. , 2014, , .		0
132	A Dual-Threshold Policy for Opportunistic Spectrum Access in Fading Channels. IEEE Communications Letters, 2014, 18, 2229-2232.	2.5	0
133	Power-Efficient Distributed Beamforming for Multiple Full-Duplex Relays Aided Multiuser Networks. , 2014, , .		0
134	Uplink sum-throughput evaluation of sectorized multi-cell massive MIMO system. , 2015, , .		0
135	Activity detection for enhanced configured-grant: A practical perspective. China Communications, 2022, 19, 181-191.	2.0	0