

# Shidong Zhou

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

90  
papers

1,136  
citations

17  
h-index

31  
g-index

135  
ext. papers

1,467  
ext. citations

4  
avg, IF

4.58  
L-index

#	Paper	IF	Citations
90	Spectrum and Energy-Efficient BeamSpace MIMO-NOMA for Millimeter-Wave Communications Using Lens Antenna Array. <i>IEEE Journal on Selected Areas in Communications</i> , <b>2017</b> , 35, 2370-2382	14.2	197
89	Green 5G Heterogeneous Networks Through Dynamic Small-Cell Operation. <i>IEEE Journal on Selected Areas in Communications</i> , <b>2016</b> , 34, 1103-1115	14.2	91
88	Capacity analysis in CDMA distributed antenna systems. <i>IEEE Transactions on Wireless Communications</i> , <b>2005</b> , 4, 2613-2620	9.6	85
87	Robust and Low Complexity Hybrid Beamforming for Uplink Multiuser MmWave MIMO Systems. <i>IEEE Communications Letters</i> , <b>2016</b> , 20, 1140-1143	3.8	75
86	On the Monotonicity, Log-Concavity, and Tight Bounds of the Generalized Marcum and Nuttall $Q$ -Functions. <i>IEEE Transactions on Information Theory</i> , <b>2010</b> , 56, 1166-1186	2.8	69
85	Wideband BeamSpace Channel Estimation for Millimeter-Wave MIMO Systems Relying on Lens Antenna Arrays. <i>IEEE Transactions on Signal Processing</i> , <b>2019</b> , 67, 4809-4824	4.8	48
84	Capacity Analysis for Spatially Non-Wide Sense Stationary Uplink Massive MIMO Systems. <i>IEEE Transactions on Wireless Communications</i> , <b>2015</b> , 14, 7044-7056	9.6	36
83	Fading Characteristics of Wireless Channel on High-Speed Railway in Hilly Terrain Scenario. <i>International Journal of Antennas and Propagation</i> , <b>2013</b> , 2013, 1-9	1.2	36
82	Coverage Probability Analysis of UAV Cellular Networks in Urban Environments <b>2018</b> ,		27
81	Distributed Power Allocation for Coordinated Multipoint Transmissions in Distributed Antenna Systems. <i>IEEE Transactions on Wireless Communications</i> , <b>2013</b> , 12, 2281-2291	9.6	26
80	Downlink Capacity of Distributed Antenna Systems in a Multi-Cell Environment <b>2009</b> ,		26
79	Massive MIMO with multi-antenna users: When are additional user antennas beneficial? <b>2016</b> ,		25
78	A Multi-Cell MMSE Precoder for Massive MIMO Systems and New Large System Analysis <b>2015</b> ,		25
77	Coordinated Multi-Cell Transmission for Distributed Antenna Systems with Partial CSIT. <i>IEEE Communications Letters</i> , <b>2012</b> , 16, 1044-1047	3.8	22
76	Downlink Power Allocation for Distributed Antenna Systems with Random Antenna Layout <b>2009</b> ,		22
75	Joint Deployment of Small Cells and Wireless Backhaul Links in Next-Generation Networks. <i>IEEE Communications Letters</i> , <b>2015</b> , 19, 2250-2253	3.8	18
74	Sparse Bayesian learning based user detection and channel estimation for SCMA uplink systems <b>2015</b> ,		17

73	On the Deployment of Antenna Elements in Generalized Multi-User Distributed Antenna Systems. <i>Mobile Networks and Applications</i> , <b>2011</b> , 16, 35-45	2.9	17
72	Joint power allocation for multi-cell distributed antenna systems with large-scale CSIT <b>2012</b> ,		17
71	Wireless channel feature extraction via GMM and CNN in the tomographic channel model. <i>Journal of Communications and Information Networks</i> , <b>2017</b> , 2, 41-51		14
70	A Multi-Cell MMSE Detector for Massive MIMO Systems and New Large System Analysis <b>2015</b> ,		14
69	Geometry-Based Stochastic Channel Model for High-Speed Railway Communications. <i>IEEE Transactions on Vehicular Technology</i> , <b>2019</b> , 68, 4353-4366	6.8	12
68	Information-theoretic capacity analysis in MIMO distributed antenna systems		12
67	Capacity Region Bounds and Resource Allocation for Two-Way OFDM Relay Channels. <i>IEEE Transactions on Wireless Communications</i> , <b>2013</b> , 12, 2904-2917	9.6	11
66	On rate region analysis of full-duplex cellular system with inter-user interference cancellation <b>2015</b> ,		10
65	Sum Rate Characterization of Distributed Antenna Systems with Circular Antenna Layout <b>2009</b> ,		10
64	A parallel interleaver design for IDMA systems <b>2009</b> ,		9
63	Dynamic Channel Model With Overhead Line Poles for High-Speed Railway Communications. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2018</b> , 17, 903-906	3.8	8
62	Propagation Characteristics of Air-to-Air Channels in Urban Environments <b>2018</b> ,		8
61	Deployment of 5G networking infrastructure with machine type communication considerations <b>2016</b> ,		7
60	A General Coupling-Based Model Framework for Wideband MIMO Channels. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2012</b> , 60, 574-586	4.9	7
59	The Access Procedure Design for Low Latency in 5G Cellular Network <b>2016</b> ,		7
58	Low Complexity Decoding Method for SCMA in Uplink Random Access <b>2016</b> ,		7
57	Energy-efficient Butler-matrix-based hybrid beamforming for multiuser mmWave MIMO system. <i>Science China Information Sciences</i> , <b>2017</b> , 60, 1	3.4	6
56	ICI Analysis of MIMO-OFDM Systems with Independent Phase Noise at Both Transmit and Receive Antennas <b>2009</b> ,		6

55	Blockage Modeling for Inter-layer UAVs Communications in Urban Environments <b>2018</b> ,		6
54	Unmanned Aerial Vehicle Communications: Path-Loss Modeling and Evaluation. <i>IEEE Vehicular Technology Magazine</i> , <b>2020</b> , 15, 121-128	9.9	5
53	Superposition coding based inter-user interference cancellation in full duplex cellular system <b>2016</b> ,		5
52	Downlink Power Allocation for Distributed Antenna Systems in a Multi-Cell Environment <b>2009</b> ,		4
51	Power coverage and fading characteristics of indoor distributed antenna systems <b>2009</b> ,		4
50	On the Optimal Radius to Deploy Antennas in Multi-user Distributed Antenna System with Circular Antenna Layout <b>2009</b> ,		4
49	Tight Bounds of the Generalized Marcum Q-Function Based on Log-Concavity <b>2008</b> ,		4
48	Message Authentication over Noisy Channels. <i>Entropy</i> , <b>2015</b> , 17, 368-383	2.8	3
47	Queue-aware energy-efficient scheduling and power allocation in small-cell networks with interference <b>2016</b> ,		3
46	mmWave mobile communication under hypercellular architecture. <i>Journal of Communications and Information Networks</i> , <b>2016</b> , 1, 62-76		3
45	Analysis of Transmitter Phase Noise in OFDM System and its Mitigation <b>2009</b> ,		3
44	Joint Stream-Wise THP Transceiver Design for the Multiuser MIMO Downlink <b>2008</b> ,		3
43	Transmit antenna selection with power and rate allocation for spatial multiplexing in distributed antenna systems. <i>Tsinghua Science and Technology</i> , <b>2006</b> , 11, 259-263	3.4	3
42	Receive antenna selection in the downlink of multiuser MIMO systems		3
41	User detection and channel estimation for SCMA uplink system in dispersive channel <b>2016</b> ,		3
40	Coverage Analysis and optimization of UAV Networks with Directional Antennas <b>2018</b> ,		3
39	An improved HARQ scheme for SCMA under random access <b>2017</b> ,		2
38	A Low-Complexity Pilot Reuse Scheme to Increase the Throughput of Massive MIMO <b>2015</b> ,		2

37	Optimal Real-Time Spectrum Sharing Between Cooperative Relay and Ad hoc Networks. <i>IEEE Transactions on Signal Processing</i> , <b>2012</b> , 60, 1971-1985	4.8	2
36	Corrections to Unified Laguerre Polynomial-Series-Based Distribution of Small-Scale Fading Envelopes [Oct 09 3988-3999]. <i>IEEE Transactions on Vehicular Technology</i> , <b>2011</b> , 60, 347-349	6.8	2
35	On Power Consumption of Multi-user Distributed Wireless Communication Systems <b>2010</b> ,		2
34	Rician K-factor analysis of in-cabin distributed MIMO system measurements <b>2011</b> ,		2
33	Joint Power and Channel Resource Allocation for F/TDMA Decode and Forward Relay Networks <b>2009</b> ,		2
32	Optimal power allocation for two-way decode-and-forward OFDM relay networks <b>2012</b> ,		2
31	A Novel Evaluation Method for the Downlink Capacity of Distributed Antenna Systems. <i>IEICE Transactions on Communications</i> , <b>2009</b> , E92-B, 2226-2230	0.5	2
30	A cooperative transmission strategy for uplink cellular systems <b>2008</b> ,		2
29	Channel Prediction Assisted By Radio Propagation Environments Information <b>2008</b> ,		2
28	On Ergodic Capacity of Spectrum-Sharing Systems in Fading Channels. <i>IEICE Transactions on Communications</i> , <b>2009</b> , E92-B, 1904-1907	0.5	2
27	Physical layer security game with full-duplex proactive eavesdropper <b>2016</b> ,		2
26	Dynamic on/off control of wireless small cells with heterogeneous backhuls <b>2016</b> ,		1
25	Measurement-based RSS-multipath neural network indoor positioning technique <b>2014</b> ,		1
24	Optimization of AP placement in indoor fingerprint positioning <b>2013</b> ,		1
23	Pilot allocation for doubly selective channel estimation in OFDM systems <b>2013</b> ,		1
22	Dynamic base station selection strategies based on location fingerprinting <b>2015</b> ,		1
21	Cluster Information based User Scheduling for Multiuser MIMO Systems <b>2014</b> ,		1
20	Performance of massive MIMO with zero-forcing beamforming and reduced downlink pilots <b>2014</b> ,		1

19	An anti-overflow control method of state metrics for high throughput Turbo decoder <b>2012</b> ,		1
18	Measurement-Based Analysis of Transmit Antenna Selection for In-Cabin Distributed MIMO System. <i>International Journal of Antennas and Propagation</i> , <b>2012</b> , 2012, 1-6	1.2	1
17	Corrections to the Proof in 'Coordinated Beamforming for the Multicell Multi-Antenna Wireless System'. <i>IEEE Transactions on Wireless Communications</i> , <b>2011</b> , 10, 4366-4367	9.6	1
16	An optimal OSA approach based on channel-usage estimate under collision probability constraint in cognitive radio systems. <i>Annales Des Telecommunications/Annals of Telecommunications</i> , <b>2009</b> , 64, 557-572	3.2	1
15	Cooperative Opportunistic Scheduling in Multiple Antenna Cellular Networks <b>2009</b> ,		1
14	Performance Analysis in Cognitive Radio Systems with Multiple Antennas. <i>IEICE Transactions on Communications</i> , <b>2010</b> , E93-B, 182-186	0.5	1
13	Wideband wireless channel predictor relying on environment information <b>2008</b> ,		1
12	A subcarrier average based block-by-block blind channel estimation algorithm for multi-user OFDM systems <b>2007</b> ,		1
11	Sum rate and power consumption of a circular-layout distributed antenna system with MMSE receivers. <i>Tsinghua Science and Technology</i> , <b>2008</b> , 13, 759-768	3.4	1
10	Parallel decoding of turbo product codes for high data rate communication		1
9	Practical Power Allocation for Cooperative Distributed Antenna Systems. <i>IEICE Transactions on Communications</i> , <b>2010</b> , E93-B, 2424-2427	0.5	1
8	Optimal cooperative energy spectrum sensing in cognitive radio network. <i>Frontiers of Electrical and Electronic Engineering in China: Selected Publications From Chinese Universities</i> , <b>2010</b> , 5, 449-455		0
7	Multuser MIMO downlink transmission schemes over time-varying channels. <i>Tsinghua Science and Technology</i> , <b>2008</b> , 13, 769-777	3.4	0
6	A Dual-Threshold Policy for Opportunistic Spectrum Access in Fading Channels. <i>IEEE Communications Letters</i> , <b>2014</b> , 18, 2229-2232	3.8	
5	Per-layer transmit and receive filters design for Tomlinson-Harashima precoding in multiuser MIMO systems. <i>Science China Information Sciences</i> , <b>2012</b> , 55, 839-849	3.4	
4	Joint maximum-likelihood and mmse channel estimator for uwb communications. <i>Tsinghua Science and Technology</i> , <b>2006</b> , 11, 568-573	3.4	
3	Joint Stream-Wise THP Transceiver Design for the Multiuser MIMO Downlink. <i>IEICE Transactions on Communications</i> , <b>2009</b> , E92-B, 209-218	0.5	
2	Activity detection for enhanced configured-grant: A practical perspective. <i>China Communications</i> , <b>2022</b> , 19, 181-191	3	

- <sup>1</sup> Eavesdropping area for evaluating the security of wireless communications. *China Communications*, **2022**, 19, 145-157 3