

Shidong Zhou

List of Publications by Year in Descending Order

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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	Activity detection for enhanced configured-grant: A practical perspective. <i>China Communications</i> , 2022 , 19, 181-191	3	
89	Eavesdropping area for evaluating the security of wireless communications. <i>China Communications</i> , 2022 , 19, 145-157	3	
88	Unmanned Aerial Vehicle Communications: Path-Loss Modeling and Evaluation. <i>IEEE Vehicular Technology Magazine</i> , 2020 , 15, 121-128	9.9	5
87	Geometry-Based Stochastic Channel Model for High-Speed Railway Communications. <i>IEEE Transactions on Vehicular Technology</i> , 2019 , 68, 4353-4366	6.8	12
86	Wideband BeamSpace Channel Estimation for Millimeter-Wave MIMO Systems Relying on Lens Antenna Arrays. <i>IEEE Transactions on Signal Processing</i> , 2019 , 67, 4809-4824	4.8	48
85	Dynamic Channel Model With Overhead Line Poles for High-Speed Railway Communications. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2018 , 17, 903-906	3.8	8
84	Coverage Probability Analysis of UAV Cellular Networks in Urban Environments 2018 ,		27
83	Propagation Characteristics of Air-to-Air Channels in Urban Environments 2018 ,		8
82	Coverage Analysis and optimization of UAV Networks with Directional Antennas 2018 ,		3
81	Blockage Modeling for Inter-layer UAVs Communications in Urban Environments 2018 ,		6
80	An improved HARQ scheme for SCMA under random access 2017 ,		2
79	Spectrum and Energy-Efficient BeamSpace MIMO-NOMA for Millimeter-Wave Communications Using Lens Antenna Array. <i>IEEE Journal on Selected Areas in Communications</i> , 2017 , 35, 2370-2382	14.2	197
78	Wireless channel feature extraction via GMM and CNN in the tomographic channel model. <i>Journal of Communications and Information Networks</i> , 2017 , 2, 41-51		14
77	Energy-efficient Butler-matrix-based hybrid beamforming for multiuser mmWave MIMO system. <i>Science China Information Sciences</i> , 2017 , 60, 1	3.4	6
76	Deployment of 5G networking infrastructure with machine type communication considerations 2016 ,		7
75	Dynamic on/off control of wireless small cells with heterogeneous backhauled 2016 ,		1
74	Massive MIMO with multi-antenna users: When are additional user antennas beneficial? 2016 ,		25

73	Queue-aware energy-efficient scheduling and power allocation in small-cell networks with interference 2016 ,		3
72	mmWave mobile communication under hypercellular architecture. <i>Journal of Communications and Information Networks</i> , 2016 , 1, 62-76		3
71	Green 5G Heterogeneous Networks Through Dynamic Small-Cell Operation. <i>IEEE Journal on Selected Areas in Communications</i> , 2016 , 34, 1103-1115	14.2	91
70	Physical layer security game with full-duplex proactive eavesdropper 2016 ,		2
69	The Access Procedure Design for Low Latency in 5G Cellular Network 2016 ,		7
68	Low Complexity Decoding Method for SCMA in Uplink Random Access 2016 ,		7
67	Superposition coding based inter-user interference cancellation in full duplex cellular system 2016 ,		5
66	User detection and channel estimation for SCMA uplink system in dispersive channel 2016 ,		3
65	Robust and Low Complexity Hybrid Beamforming for Uplink Multiuser MmWave MIMO Systems. <i>IEEE Communications Letters</i> , 2016 , 20, 1140-1143	3.8	75
64	Message Authentication over Noisy Channels. <i>Entropy</i> , 2015 , 17, 368-383	2.8	3
63	A Multi-Cell MMSE Precoder for Massive MIMO Systems and New Large System Analysis 2015 ,		25
62	Dynamic base station selection strategies based on location fingerprinting 2015 ,		1
61	A Multi-Cell MMSE Detector for Massive MIMO Systems and New Large System Analysis 2015 ,		14
60	A Low-Complexity Pilot Reuse Scheme to Increase the Throughput of Massive MIMO 2015 ,		2
59	Joint Deployment of Small Cells and Wireless Backhaul Links in Next-Generation Networks. <i>IEEE Communications Letters</i> , 2015 , 19, 2250-2253	3.8	18
58	On rate region analysis of full-duplex cellular system with inter-user interference cancellation 2015 ,		10
57	Sparse Bayesian learning based user detection and channel estimation for SCMA uplink systems 2015 ,		17
56	Capacity Analysis for Spatially Non-Wide Sense Stationary Uplink Massive MIMO Systems. <i>IEEE Transactions on Wireless Communications</i> , 2015 , 14, 7044-7056	9.6	36

55	A Dual-Threshold Policy for Opportunistic Spectrum Access in Fading Channels. <i>IEEE Communications Letters</i> , 2014 , 18, 2229-2232	3.8	
54	Measurement-based RSS-multipath neural network indoor positioning technique 2014 ,		1
53	Cluster Information based User Scheduling for Multiuser MIMO Systems 2014 ,		1
52	Performance of massive MIMO with zero-forcing beamforming and reduced downlink pilots 2014 ,		1
51	Optimization of AP placement in indoor fingerprint positioning 2013 ,		1
50	Pilot allocation for doubly selective channel estimation in OFDM systems 2013 ,		1
49	Distributed Power Allocation for Coordinated Multipoint Transmissions in Distributed Antenna Systems. <i>IEEE Transactions on Wireless Communications</i> , 2013 , 12, 2281-2291	9.6	26
48	Capacity Region Bounds and Resource Allocation for Two-Way OFDM Relay Channels. <i>IEEE Transactions on Wireless Communications</i> , 2013 , 12, 2904-2917	9.6	11
47	Fading Characteristics of Wireless Channel on High-Speed Railway in Hilly Terrain Scenario. <i>International Journal of Antennas and Propagation</i> , 2013 , 2013, 1-9	1.2	36
46	Coordinated Multi-Cell Transmission for Distributed Antenna Systems with Partial CSIT. <i>IEEE Communications Letters</i> , 2012 , 16, 1044-1047	3.8	22
45	Optimal Real-Time Spectrum Sharing Between Cooperative Relay and Ad hoc Networks. <i>IEEE Transactions on Signal Processing</i> , 2012 , 60, 1971-1985	4.8	2
44	Per-layer transmit and receive filters design for Tomlinson-Harashima precoding in multiuser MIMO systems. <i>Science China Information Sciences</i> , 2012 , 55, 839-849	3.4	
43	A General Coupling-Based Model Framework for Wideband MIMO Channels. <i>IEEE Transactions on Antennas and Propagation</i> , 2012 , 60, 574-586	4.9	7
42	An anti-overflow control method of state metrics for high throughput Turbo decoder 2012 ,		1
41	Measurement-Based Analysis of Transmit Antenna Selection for In-Cabin Distributed MIMO System. <i>International Journal of Antennas and Propagation</i> , 2012 , 2012, 1-6	1.2	1
40	Optimal power allocation for two-way decode-and-forward OFDM relay networks 2012 ,		2
39	Joint power allocation for multi-cell distributed antenna systems with large-scale CSIT 2012 ,		17
38	Corrections to Unified Laguerre Polynomial-Series-Based Distribution of Small-Scale Fading Envelopes[Oct 09 3988-3999]. <i>IEEE Transactions on Vehicular Technology</i> , 2011 , 60, 347-349	6.8	2

37	On the Deployment of Antenna Elements in Generalized Multi-User Distributed Antenna Systems. <i>Mobile Networks and Applications</i> , 2011 , 16, 35-45	2.9	17
36	Rician K-factor analysis of in-cabin distributed MIMO system measurements 2011 ,		2
35	Corrections to the Proof in 'Coordinated Beamforming for the Multicell Multi-Antenna Wireless System'. <i>IEEE Transactions on Wireless Communications</i> , 2011 , 10, 4366-4367	9.6	1
34	On Power Consumption of Multi-user Distributed Wireless Communication Systems 2010 ,		2
33	Performance Analysis in Cognitive Radio Systems with Multiple Antennas. <i>IEICE Transactions on Communications</i> , 2010 , E93-B, 182-186	0.5	1
32	Optimal cooperative energy spectrum sensing in cognitive radio network. <i>Frontiers of Electrical and Electronic Engineering in China: Selected Publications From Chinese Universities</i> , 2010 , 5, 449-455		0
31	On the Monotonicity, Log-Concavity, and Tight Bounds of the Generalized Marcum and Nuttall Q -Functions. <i>IEEE Transactions on Information Theory</i> , 2010 , 56, 1166-1186	2.8	69
30	Practical Power Allocation for Cooperative Distributed Antenna Systems. <i>IEICE Transactions on Communications</i> , 2010 , E93-B, 2424-2427	0.5	1
29	Sum Rate Characterization of Distributed Antenna Systems with Circular Antenna Layout 2009 ,		10
28	Joint Power and Channel Resource Allocation for F/TDMA Decode and Forward Relay Networks 2009 ,		2
27	Downlink Power Allocation for Distributed Antenna Systems in a Multi-Cell Environment 2009 ,		4
26	ICI Analysis of MIMO-OFDM Systems with Independent Phase Noise at Both Transmit and Receive Antennas 2009 ,		6
25	Power coverage and fading characteristics of indoor distributed antenna systems 2009 ,		4
24	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> , 2009 , 64, 557-572		1
23	Analysis of Transmitter Phase Noise in OFDM System and its Mitigation 2009 ,		3
22	A parallel interleaver design for IDMA systems 2009 ,		9
21	Downlink Power Allocation for Distributed Antenna Systems with Random Antenna Layout 2009 ,		22
20	Downlink Capacity of Distributed Antenna Systems in a Multi-Cell Environment 2009 ,		26

19	Cooperative Opportunistic Scheduling in Multiple Antenna Cellular Networks 2009 ,		1
18	On the Optimal Radius to Deploy Antennas in Multi-user Distributed Antenna System with Circular Antenna Layout 2009 ,		4
17	A Novel Evaluation Method for the Downlink Capacity of Distributed Antenna Systems. <i>IEICE Transactions on Communications</i> , 2009 , E92-B, 2226-2230	0.5	2
16	On Ergodic Capacity of Spectrum-Sharing Systems in Fading Channels. <i>IEICE Transactions on Communications</i> , 2009 , E92-B, 1904-1907	0.5	2
15	Joint Stream-Wise THP Transceiver Design for the Multiuser MIMO Downlink. <i>IEICE Transactions on Communications</i> , 2009 , E92-B, 209-218	0.5	
14	A cooperative transmission strategy for uplink cellular systems 2008 ,		2
13	Tight Bounds of the Generalized Marcum Q-Function Based on Log-Concavity 2008 ,		4
12	Channel Prediction Assisted By Radio Propagation Environments Information 2008 ,		2
11	Joint Stream-Wise THP Transceiver Design for the Multiuser MIMO Downlink 2008 ,		3
10	Wideband wireless channel predictor relying on environment information 2008 ,		1
9	Sum rate and power consumption of a circular-layout distributed antenna system with MMSE receivers. <i>Tsinghua Science and Technology</i> , 2008 , 13, 759-768	3-4	1
8	Multiuser MIMO downlink transmission schemes over time-varying channels. <i>Tsinghua Science and Technology</i> , 2008 , 13, 769-777	3-4	0
7	A subcarrier average based block-by-block blind channel estimation algorithm for multi-user OFDM systems 2007 ,		1
6	Transmit antenna selection with power and rate allocation for spatial multiplexing in distributed antenna systems. <i>Tsinghua Science and Technology</i> , 2006 , 11, 259-263	3-4	3
5	Joint maximum-likelihood and mmse channel estimator for uwb communications. <i>Tsinghua Science and Technology</i> , 2006 , 11, 568-573	3-4	
4	Capacity analysis in CDMA distributed antenna systems. <i>IEEE Transactions on Wireless Communications</i> , 2005 , 4, 2613-2620	9.6	85
3	Information-theoretic capacity analysis in MIMO distributed antenna systems		12
2	Parallel decoding of turbo product codes for high data rate communication		1

1 Receive antenna selection in the downlink of multiuser MIMO systems

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