Shiwen He

List of Publications by Year
in descending order

67 papers	2,263 citations	393982 19 h-index	233125 45 g-index
68 all docs	68 docs citations	68 times ranked	2318 citing authors

#	Article	IF	Citations
1	GBLinks: GNN-Based Beam Selection and Link Activation for Ultra-Dense D2D mmWave Networks. IEEE Transactions on Communications, 2022, 70, 3451-3466.	4.9	6
2	GARD: Gender difference analysis and recognition based on machine learning. Array, 2022, 14, 100140.	2.5	0
3	An Unsupervised Deep Unrolling Framework for Constrained Optimization Problems in Wireless Networks. IEEE Transactions on Wireless Communications, 2022, 21, 8552-8564.	6.1	6
4	Beamforming Design for Multiuser uRLLC With Finite Blocklength Transmission. IEEE Transactions on Wireless Communications, 2021, 20, 8096-8109.	6.1	28
5	Joint optimization of computing ratio and access points' density for mixed mobile edge/cloud computing. Eurasip Journal on Wireless Communications and Networking, 2021, 2021, .	1.5	1
6	Maximizing the Set Cardinality of Users Scheduled for Ultra-Dense uRLLC Networks. IEEE Communications Letters, 2021, 25, 3952-3955.	2.5	3
7	Autopsy and statistical evidence of disturbed hemostasis progress in COVID-19: medical records from 407 patients. Thrombosis Journal, 2021, 19, 8.	0.9	11
8	Forward link outage performance of aeronautical broadband satellite communications. Frontiers of Information Technology and Electronic Engineering, 2021, 22, 790-801.	1.5	0
9	A Survey of Millimeter-Wave Communication: Physical-Layer Technology Specifications and Enabling Transmission Technologies. Proceedings of the IEEE, 2021, 109, 1666-1705.	16.4	41
10	An Overview on the Application of Graph Neural Networks in Wireless Networks. IEEE Open Journal of the Communications Society, 2021, 2, 2547-2565.	4.4	43
11	Location-assisted Beam Tracking and Selection for Downlink MISO via Unsupervised Learning. , 2021, , .		0
12	Cloud and Edge Multicast Beamforming for Cache-Enabled Ultra-Dense Networks. IEEE Transactions on Vehicular Technology, 2020, 69, 3481-3485.	3.9	19
13	Energy-Efficient Transceiver Design for Cache-Enabled Millimeter-Wave Systems. IEEE Transactions on Communications, 2020, 68, 3876-3889.	4.9	4
14	Cache-Enabled Coordinated Mobile Edge Network: Opportunities and Challenges. IEEE Wireless Communications, 2020, 27, 204-211.	6.6	17
15	Two-stage visible watermark removal architecture based on deep learning. IET Image Processing, 2020, 14, 3819-3828.	1.4	5
16	Performance Evaluation and Analysis of Millimeter Wave Communication System. IEEE Systems Journal, 2019, 13, 159-170.	2.9	16
17	Coordinated Fronthaul Data Assignment and Multicast Beamforming for Cache-Enabled Wireless Networks. IEEE Wireless Communications Letters, 2019, 8, 1082-1085.	3.2	3
18	Optimal Design of Multiple Panel Arrays in LoS MIMO System. , 2019, , .		3

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19	Cloud-Edge Coordinated Processing: Low-Latency Multicasting Transmission. IEEE Journal on Selected Areas in Communications, 2019, 37, 1144-1158.	9.7	39
20	A Trusted Routing Scheme Using Blockchain and Reinforcement Learning for Wireless Sensor Networks. Sensors, 2019, 19, 970.	2.1	106
21	Hybrid Precoder Design for Cache-Enabled Millimeter-Wave Radio Access Networks. IEEE Transactions on Wireless Communications, 2019, 18, 1707-1722.	6.1	18
22	Multiâ€beam receive scheme for millimetre wave wireless communication system. IET Communications, 2019, 13, 216-222.	1.5	8
23	Robust Multigroup Multicast Beamforming Design for Backhaul-Limited Cloud Radio Access Network. IEEE Signal Processing Letters, 2019, 26, 189-193.	2.1	11
24	Decentralized Precoding for Cache-Enabled Ultra-Dense Radio Access Networks. IEEE Wireless Communications Letters, 2019, 8, 404-407.	3.2	1
25	Two-Level Transmission Scheme for Cache-Enabled Fog Radio Access Networks. IEEE Transactions on Communications, 2019, 67, 445-456.	4.9	19
26	Analysis of Panel Antenna Arrays in Los MIMO System. IEEE Access, 2018, 6, 23303-23315.	2.6	9
27	Spectral and Energy Efficiency Tradeoff for Massive MIMO. IEEE Transactions on Vehicular Technology, 2018, 67, 6991-7002.	3.9	42
28	Energy Efficient Hybrid Precoding for Millimeter Wave F-RAN with Wireless Fronthaul. , 2018, , .		1
29	Hybrid Precoding for Broadband Millimeter-Wave Communication Systems With Partial CSI. IEEE Access, 2018, 6, 50891-50900.	2.6	11
30	Cache-Enabled Hierarchical Transmission Scheme for Fog Radio Access Networks. , 2018, , .		2
31	Positioning Algorithm and AoD Estimation for mmWave FD-MISO System. , 2018, , .		7
32	An Overview of China Millimeter-Wave Multiple Gigabit Wireless Local Area Network System. IEICE Transactions on Communications, 2018, E101.B, 262-276.	0.4	8
33	Wideband millimeter wave communication: Single carrier based hybrid precoding with sparse optimization. IEEE Transactions on Vehicular Technology, 2018, 67, 9696-9710.	3.9	29
34	IQ Imbalance Compensation for Generalized Frequency Division Multiplexing Systems. IEEE Wireless Communications Letters, 2017, 6, 422-425.	3.2	21
35	Multibeam Antenna Technologies for 5G Wireless Communications. IEEE Transactions on Antennas and Propagation, 2017, 65, 6231-6249.	3.1	753
36	An efficient beam-training scheme for the optimally designed subarray structure in mmWave LoS MIMO systems. Eurasip Journal on Wireless Communications and Networking, 2017, 2017, .	1.5	4

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37	Energy‐efficient precoding design for cloud radio access networks. IET Communications, 2017, 11, 1864-1870.	1.5	4
38	On Optimal Power Allocation for Downlink Non-Orthogonal Multiple Access Systems. IEEE Journal on Selected Areas in Communications, 2017, , 1-1.	9.7	235
39	Codebook-Based Hybrid Precoding for Millimeter Wave Multiuser Systems. IEEE Transactions on Signal Processing, 2017, 65, 5289-5304.	3.2	145
40	Cooperative Multi-Subarray Beam Training in Millimeter Wave Communication Systems. , 2017, , .		11
41	Training sequence design for channel estimation and IQ imbalance compensation in GFDM systems. , 2017, , .		2
42	Joint Optimization of Analog Beam and User Scheduling for Millimeter Wave Communications. IEEE Communications Letters, 2017, 21, 2638-2641.	2.5	33
43	Joint user scheduling and hybrid precoding design for MIMO C-RAN. , 2017, , .		11
44	Coordinated multicell beamforming for massive multiple‐input multiple‐output systems based on uplink–downlink duality. IET Communications, 2016, 10, 2380-2390.	1.5	2
45	Energy-Efficient Transceiver Design for Hybrid Sub-Array Architecture MIMO Systems. IEEE Access, 2016, 4, 9895-9905.	2.6	79
46	Power minimization hybrid precoding for millimeter wave communication systems. , 2016, , .		2
47	Joint Antenna Selection and Energy-Efficient Beamforming Design. IEEE Signal Processing Letters, 2016, , 1-1.	2.1	20
48	Resource Efficiency: A New Beamforming Design for Multicell Multiuser Systems. IEEE Transactions on Vehicular Technology, 2016, 65, 6063-6074.	3.9	5
49	Energy Efficient Coordinated Beamforming Design in Multi-Cell Multicast Networks. IEEE Communications Letters, 2015, 19, 985-988.	2.5	35
50	Energy Efficient Coordinated Beamforming for Multicell System: Duality-Based Algorithm Design and Massive MIMO Transition. IEEE Transactions on Communications, 2015, 63, 4920-4935.	4.9	40
51	Distributed energy-efficient design for coordinated multicell downlink transmission. , 2015, , .		2
52	Power control and low-complexity receiver for uplink massive MIMO systems. , 2014, , .		2
53	Coordinated energy-efficient precoding for CR MIMO interference channels. , 2014, , .		5
54	Energy-efficient coordinated precoding for multicell system with transceiver impairments. , 2014, , .		0

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55	Duality Based Energy-Efficient Beamforming Design for Multiuser Downlink Systems. IEEE Wireless Communications Letters, 2014, 3, 409-412.	3.2	2
56	Robust precoding for joint transmission in multicell multiuser downlink systems. IET Communications, 2014, 8, 2026-2034.	1.5	1
57	Decentralized Energy-Efficient Coordinated Beamforming for Multicell Systems. IEEE Transactions on Vehicular Technology, 2014, 63, 4302-4314.	3.9	34
58	Coordinated Multicell Multiuser Precoding for Maximizing Weighted Sum Energy Efficiency. IEEE Transactions on Signal Processing, 2014, 62, 741-751.	3.2	212
59	Multicell coordinated beamforming for WSRM with imperfect CSI at both transceiver sides. , 2014, , .		1
60	Non-conservative robust joint transmission beamforming for multicell multiuser systems. , 2013, , .		0
61	A new iterative detection algorithm for layered space-time receiver in frequency selective fading MIMO channels. , 2013, , .		0
62	Max-Min Energy Efficient Beamforming for Multicell Multiuser Joint Transmission Systems. IEEE Communications Letters, 2013, 17, 1956-1959.	2.5	46
63	Power Loading Codebook Design for OFDM System. , 2013, , .		0
64	Block coordinated beamforming algorithm for multi-cell MISO downlink systems. , 2013, , .		0
65	Robust multi-cell joint transmission beamforming based on uplink-downlink duality. , 2013, , .		1
66	A Multi-Cell Beamforming Design by Uplink-Downlink Max-Min SINR Duality. IEEE Transactions on Wireless Communications, 2012, , 1-10.	6.1	34
67	An improved interference mitigation scheme based on interference subspace alignment. , 2011, , .		1