Hongbin Chen

List of Publications by Year
in descending order

64 papers	1,406 citations	394421 19 h-index	345221 36 g-index
66 all docs	66 docs citations	66 times ranked	1664 citing authors

#	Article	IF	Citations
1	Data Reconstruction Coverage Based on Graph Signal Processing for Wireless Sensor Networks. IEEE Wireless Communications Letters, 2022, 11, 48-52.	5.0	4
2	UAV-Assisted Sleep Scheduling Algorithm for Energy-Efficient Data Collection in Agricultural Internet of Things. IEEE Internet of Things Journal, 2022, 9, 11043-11056.	8.7	12
3	Confident Information Coverage Hole Prediction and Repairing for Healthcare Big Data Collection in Large-Scale Hybrid Wireless Sensor Networks. IEEE Internet of Things Journal, 2021, 8, 16801-16813.	8.7	18
4	Secrecy energy efficiency performance in communication networks with mobile sinks. Physical Communication, 2019, 32, 41-49.	2.1	9
5	Healing Coverage Holes for Big Data Collection in Large-Scale Wireless Sensor Networks. Mobile Networks and Applications, 2019, 24, 1975-1984.	3.3	5
6	Repairing Confident Information Coverage Holes for Big Data Collection in Large-Scale Heterogeneous Wireless Sensor Networks. IEEE Access, 2019, 7, 155347-155360.	4.2	5
7	Energy-Efficient Joint User Association and Power Allocation in Relay-Aided Massive MIMO Systems. Journal of Communications and Information Networks, 2018, 3, 67-74.	5.2	3
8	Switch-and-stay combining for energy harvesting relaying systems. Physical Communication, 2018, 28, 28-34.	2.1	5
9	Stochastic Geometry Analysis of Downlink Spectral and Energy Efficiency in Ultradense Heterogeneous Cellular Networks. Mobile Information Systems, 2018, 2018, 1-10.	0.6	5
10	Cache Aided Decode-and-Forward Relaying Networks: From the Spatial View. Wireless Communications and Mobile Computing, 2018, 2018, 1-9.	1.2	36
11	Group buying spectrum auction algorithm for fractional frequency reuse cognitive cellular systems. Ad Hoc Networks, 2017, 58, 239-246.	5.5	52
12	Energy efficiency optimisation in fullâ€duplex relayâ€‰systems. Transactions on Emerging Telecommunications Technologies, 2017, 28, e2926.	3.9	1
13	A hybrid half-duplex/full-duplex transmission scheme in relay-aided cellular networks. Eurasip Journal on Wireless Communications and Networking, 2017, 2017, .	2.4	45
14	Auction-based spectrum allocation for CoMP systems utilizing hybrid division duplex. Physical Communication, 2017, 25, 332-340.	2.1	0
15	A Survey of Multi-Objective Optimization in Wireless Sensor Networks: Metrics, Algorithms, and Open Problems. IEEE Communications Surveys and Tutorials, 2017, 19, 550-586.	39.4	317
16	A multi-greedy spectrum auction algorithm for cognitive small cell networks. International Journal of Distributed Sensor Networks, 2017, 13, 155014771771721.	2.2	0
17	Energy Efficiency Maximization of Full-Duplex and Half-Duplex D2D Communications Underlaying Cellular Networks. Mobile Information Systems, 2016, 2016, 1-15.	0.6	5
18	Positionâ€based adaptive quantization for target location estimation in wireless sensor networks using oneâ€bit data. Wireless Communications and Mobile Computing, 2016, 16, 929-941.	1.2	11

#	Article	IF	Citations
19	An incentive aware routing for selfish opportunistic networks: A game theoretic approach. , 2016, , .		11
20	Bidirectional Wireless Information and Power Transfer With a Helping Relay. IEEE Communications Letters, 2016, 20, 862-865.	4.1	54
21	Spectral-Energy Efficiency Tradeoff in Relay-Aided Massive MIMO Cellular Networks With Pilot Contamination. IEEE Access, 2016, 4, 5234-5242.	4.2	62
22	Stackelberg game-based precoding and power allocation for spectrum auction in fractional frequency reuse cognitive cellular systems. Eurasip Journal on Wireless Communications and Networking, 2016, 2016, .	2.4	1
23	Efficient Sleep Scheduling Algorithm for Target Tracking in Double-Storage Energy Harvesting Sensor Networks. International Journal of Distributed Sensor Networks, 2016, 12, 4134735.	2.2	5
24	Robust Artificial Noise-Aided Secure Beamforming in Wireless-Powered Non-Regenerative Relay Networks. IEEE Access, 2016, 4, 7921-7929.	4.2	44
25	Stochastic geometry analysis of downlink energy efficiency for a relay deployment scheme in relay-assisted cellular networks. Telecommunication Systems, 2016, 63, 263-273.	2.5	2
26	A Reinforcement Learning-Based Sleep Scheduling Algorithm for Desired Area Coverage in Solar-Powered Wireless Sensor Networks. IEEE Sensors Journal, 2016, 16, 2763-2774.	4.7	75
27	Interference alignment and game-theoretic power allocation in MIMO Heterogeneous Sensor Networks communications. Signal Processing, 2016, 126, 173-179.	3.7	57
28	Interference Alignment and Fairness Algorithms for MIMO Cognitive Radio Systems. Mobile Information Systems, 2015, 2015, 1-8.	0.6	2
29	An RSU-Coordinated Synchronous Multi-Channel MAC Scheme for Vehicular Ad Hoc Networks. IEEE Access, 2015, 3, 2794-2802.	4.2	23
30	Symmetric Game for Distributed Estimation in Energy Harvesting Wireless Sensor Networks with Selfish Sensors. Lecture Notes in Computer Science, 2015, , 344-352.	1.3	1
31	A Novel Power Control Algorithm for Massive MIMO Cognitive Radio Systems Based on Game Theory. , 2015, , .		2
32	Spectral–Energy Efficiency Tradeoff in Full-Duplex Two-Way Relay Networks. IEEE Systems Journal, 2015, , 1-10.	4.6	38
33	Channel-Aware Adaptive Quantization Method for Source Localization in Wireless Sensor Networks. International Journal of Distributed Sensor Networks, 2015, 2015, 1-13.	2.2	3
34	Repeated Game for Distributed Estimation in Autonomous Clustered Wireless Sensor Networks. International Journal of Distributed Sensor Networks, 2015, 2015, 1-8.	2.2	0
35	Impact of channel estimation error on fixed–gain two–way relay network with user/antenna selection. Transactions on Emerging Telecommunications Technologies, 2014, 25, 490-495.	3.9	8
36	A Sleep Scheduling Algorithm for Target Tracking in Energy Harvesting Sensor Networks. , 2014, , .		5

#	Article	IF	Citations
37	Power allocation and transmitter switching for broadcasting with multiple energy harvesting transmitters. Eurasip Journal on Wireless Communications and Networking, 2014, 2014, .	2.4	0
38	A range-based sleep scheduling algorithm for desired area coverage in solar-powered wireless sensor networks. , 2014, , .		3
39	Adaptive Quantization for Distributed Estimation in Energy-Harvesting Wireless Sensor Networks: A Game-Theoretic Approach. International Journal of Distributed Sensor Networks, 2014, 10, 217918.	2.2	6
40	An indicator kriging method for distributed estimation in wireless sensor networks. International Journal of Communication Systems, 2014, 27, 68-80.	2.5	9
41	Adaptive quantization for distributed estimation in cluster-based wireless sensor networks. AEU - International Journal of Electronics and Communications, 2014, 68, 484-488.	2.9	4
42	Game-Theoretic Joint Power Allocation and Beamforming for Cognitive MIMO Systems with Finite Feedback. Mobile Networks and Applications, 2014, 19, 512-521.	3.3	1
43	A Distance-Aware Safety-Related Message Broadcasting Algorithm for Vehicular Networks. International Journal of Distributed Sensor Networks, 2014, 10, 139857.	2.2	3
44	Joint Beamforming and Power Allocation for Cognitive MIMO Systems Under Imperfect CSI Based on Game Theory. Wireless Personal Communications, 2013, 73, 679-694.	2.7	50
45	Energy Efficiency and Spectral-Efficiency Tradeoff in Amplify-and-Forward Relay Networks. IEEE Transactions on Vehicular Technology, 2013, 62, 4366-4378.	6.3	110
46	Transmission scheduling for broadcasting with two energy-harvesting switching transmitters. IET Wireless Sensor Systems, 2013, 3, 138-144.	1.7	4
47	Analysis of connectivity probability and hop count for multi-hop broadcasting in vehicular networks. , 2013, , .		4
48	Sensing-Energy Tradeoff in Cognitive Radio Networks With Relays. IEEE Systems Journal, 2013, 7, 68-76.	4.6	35
49	A Leakage-Based Beamforming Algorithm for Cognitive MIMO Systems via Game Theory. Journal of Networks, 2013, 8, .	0.4	3
50	Decentralized estimation over noisy channels in cluster-based wireless sensor networks. International Journal of Communication Systems, 2012, 25, 1313-1329.	2.5	15
51	Optimal Power Allocation for Spectrum Sensing and Data Transmission in Cognitive Relay Networks. IEEE Wireless Communications Letters, 2012, 1, 26-29.	5.0	38
52	Energy-Efficient Cooperative Spectrum Sensing with Amplify-and-Forward Relaying. IEEE Communications Letters, 2012, 16, 450-453.	4.1	42
53	Sensor selection for source extraction in heterogeneous wireless sensor networks. International Journal of Communication Systems, 2010, 23, 543-551.	2.5	3
54	Performance-lifetime tradeoff for source extraction in multihop sensor networks. International Journal of Communication Systems, 2010, 23, 1613-1631.	2.5	5

#	Article	IF	Citations
55	The role of recharging in energy efficiency for wireless sensor networks. , 2010, , .		3
56	Relay Selection for Cooperative Spectrum Sensing in Cognitive Radio Networks. , 2010, , .		13
57	Performance-Energy Tradeoffs for Decentralized Estimation in a Multihop Sensor Network. IEEE Sensors Journal, 2010, 10, 1304-1310.	4.7	20
58	Impact of Topology on Performance and Energy Efficiency in Wireless Sensor Networks for Source Extraction. IEEE Transactions on Parallel and Distributed Systems, 2009, 20, 886-897.	5.6	44
59	An Improved AODV Routing Protocol for MANETs. , 2009, , .		9
60	Minimizing effective energy consumption in multi-cluster sensor networks for source extraction. IEEE Transactions on Wireless Communications, 2009, 8, 1480-1489.	9.2	25
61	Reconstruction of chaotic signals in wireless sensor networks. , 2009, , .		0
62	Source Extraction in Bandwidth Constrained Wireless Sensor Networks. IEEE Transactions on Circuits and Systems II: Express Briefs, 2008, 55, 947-951.	3.0	16
63	A General Noncoherent Chaos-Shift-Keying Communication System and its Performance Analysis. , 2007, , .		2
64	Generation of Chaotic Frequency Hopping Codes and Its Application in Communications. , 2006, , .		3