

Bin Lyu

List of Publications by Year in descending order

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36
papers

851
citations

567281

15
h-index

526287

27
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38
all docs

38
docs citations

38
times ranked

794
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimized Energy and Information Relaying in Self-Sustainable IRS-Empowered WPCN. IEEE Transactions on Communications, 2021, 69, 619-633.	7.8	112
2	Throughput Maximization for Hybrid Backscatter Assisted Cognitive Wireless Powered Radio Networks. IEEE Internet of Things Journal, 2018, 5, 2015-2024.	8.7	93
3	Wireless Powered Communication Networks Assisted by Backscatter Communication. IEEE Access, 2017, 5, 7254-7262.	4.2	72
4	The Optimal Control Policy for RF-Powered Backscatter Communication Networks. IEEE Transactions on Vehicular Technology, 2018, 67, 2804-2808.	6.3	70
5	Relay Cooperation Enhanced Backscatter Communication for Internet-of-Things. IEEE Internet of Things Journal, 2019, 6, 2860-2871.	8.7	67
6	IRS-Based Wireless Jamming Attacks: When Jammers Can Attack Without Power. IEEE Wireless Communications Letters, 2020, 9, 1663-1667.	5.0	59
7	User Cooperation in Wireless-Powered Backscatter Communication Networks. IEEE Wireless Communications Letters, 2019, 8, 632-635.	5.0	35
8	Water Sorption and Transport in Shales: An Experimental and Simulation Study. Water Resources Research, 2021, 57, e2019WR026888.	4.2	33
9	IRS-Assisted Downlink and Uplink NOMA in Wireless Powered Communication Networks. IEEE Transactions on Vehicular Technology, 2022, 71, 1083-1088.	6.3	29
10	Optimal Time Allocation in Backscatter Assisted Wireless Powered Communication Networks. Sensors, 2017, 17, 1258.	3.8	25
11	Intelligent Reflecting Surface Assisted Wireless Powered Communication Networks. , 2020, , .		23
12	Experimental Investigation about Gas Transport in Tight Shales: An Improved Relationship between Gas Slippage and Petrophysical Properties. Energy & Fuels, 2021, 35, 3937-3950.	5.1	21
13	Throughput Maximization in Backscatter Assisted Wireless Powered Communication Networks. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2017, E100.A, 1353-1357.	0.3	18
14	Optimal Time Scheduling in Relay Assisted Batteryless IoT Networks. IEEE Wireless Communications Letters, 2020, 9, 706-710.	5.0	18
15	Backscatter Then Forward: A Relaying Scheme for Batteryless IoT Networks. IEEE Wireless Communications Letters, 2020, 9, 562-566.	5.0	17
16	Optimal Resource Allocation Policies for Multi-User Backscatter Communication Systems. Sensors, 2016, 16, 2016.	3.8	15
17	Optimal Time Allocation in Relay Assisted Backscatter Communication Systems. , 2018, , .		15
18	The Security Network Coding System With Physical Layer Key Generation in Two-Way Relay Networks. IEEE Access, 2018, 6, 40673-40681.	4.2	15

#	ARTICLE	IF	CITATIONS
19	Throughput Maximization in Full-Duplex Dual-Hop Wireless Powered Communication Networks. IEEE Access, 2019, 7, 158584-158593.	4.2	15
20	System Delay Minimization for NOMA-Based Cognitive Mobile Edge Computing. IEEE Access, 2020, 8, 62228-62237.	4.2	14
21	Modeling Water Imbibition and Penetration in Shales: New Insights into the Retention of Fracturing Fluids. Energy & Fuels, 2021, 35, 13776-13787.	5.1	14
22	Predicted Decoupling for Coexistence Between WiFi and LTE in Unlicensed Band. IEEE Transactions on Vehicular Technology, 2020, 69, 4130-4141.	6.3	11
23	Throughput maximization in backscatter assisted wireless powered communication networks with battery constraint. , 2017, , .		9
24	Antenna Diversity for Downlink MIMO-NOMA Systems With Partial Channel State Information. IEEE Communications Letters, 2018, 22, 2172-2175.	4.1	9
25	Non-Orthogonal Multiple Access in Wireless Powered Communication Networks with SIC Constraints. IEICE Transactions on Communications, 2018, E101.B, 1094-1101.	0.7	7
26	Backscatter Assisted Wireless Powered Communication Networks with Non-Orthogonal Multiple Access. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2017, E100.A, 1724-1728.	0.3	6
27	Alternating Maximization and the EM Algorithm in Maximum-Likelihood Direction Finding. IEEE Transactions on Vehicular Technology, 2021, 70, 9634-9645.	6.3	6
28	Optimization-Driven Hierarchical Learning Framework for Wireless Powered Backscatter-Aided Relay Communications. IEEE Transactions on Wireless Communications, 2022, 21, 1378-1391.	9.2	6
29	Energy-Efficient Resource Allocation for Wireless-Powered Backscatter Communication Networks. , 2018, , .		4
30	Robust Beamforming for IRS-assisted Wireless Communications under Channel Uncertainty. , 2021, , .		4
31	Intelligent Reflecting Surface Enhanced Wireless Powered Mobile Edge Computing. , 2021, , .		4
32	User Clustering for Wireless Powered Communication Networks with Non-Orthogonal Multiple Access. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2018, E101.A, 1146-1150.	0.3	2
33	Reflect Beamforming Optimization for Reconfigurable Intelligent Surface Assisted Cooperative Jamming. IEEE Communications Letters, 2022, 26, 2126-2130.	4.1	2
34	Optimization for Demand Side Management with PAR in Smart Building. , 2018, , .		1
35	Wireless Powered Communication Networks with Backscatter Communication. Springer Briefs in Electrical and Computer Engineering, 2019, , 33-54.	0.5	0
36	Cognitive Wireless Powered Communication Networks with Hybrid Backscatter Communication. Springer Briefs in Electrical and Computer Engineering, 2019, , 55-72.	0.5	0