

# Hirley Alves

## List of Publications by Year in descending order

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119  
papers

2,161  
citations

304368

22  
h-index

315357

38  
g-index

123  
all docs

123  
docs citations

123  
times ranked

1729  
citing authors

#	ARTICLE	IF	CITATIONS
1	Performance of Transmit Antenna Selection Physical Layer Security Schemes. IEEE Signal Processing Letters, 2012, 19, 372-375.	2.1	206
2	Performance of Block-Markov Full Duplex Relaying with Self Interference in Nakagami-m Fading. IEEE Wireless Communications Letters, 2013, 2, 311-314.	3.2	130
3	Six Key Features of Machine Type Communication in 6G. , 2020, , .		108
4	Massive Wireless Energy Transfer: Enabling Sustainable IoT Toward 6G Era. IEEE Internet of Things Journal, 2021, 8, 8816-8835.	5.5	94
5	Analysis and Performance Optimization of LoRa Networks With Time and Antenna Diversity. IEEE Access, 2018, 6, 32820-32829.	2.6	76
6	Exploiting the Direct Link in Full-Duplex Amplify-and-Forward Relaying Networks. IEEE Signal Processing Letters, 2015, 22, 1766-1770.	2.1	64
7	Ultrareliable Short-Packet Communications With Wireless Energy Transfer. IEEE Signal Processing Letters, 2017, 24, 387-391.	2.1	57
8	Long-Range Low-Power Wireless Networks and Sampling Strategies in Electricity Metering. IEEE Transactions on Industrial Electronics, 2019, 66, 1629-1637.	5.2	49
9	Ultra-Reliable Cooperative Short-Packet Communications With Wireless Energy Transfer. IEEE Sensors Journal, 2018, 18, 2161-2177.	2.4	45
10	Machine type communications: key drivers and enablers towards the 6G era. Eurasip Journal on Wireless Communications and Networking, 2021, 2021, .	1.5	42
11	Performance Analysis of Full-Duplex Relay-Aided NOMA Systems Using Partial Relay Selection. IEEE Transactions on Vehicular Technology, 2020, 69, 622-635.	3.9	40
12	A NOMA-Based $Q$ -Learning Random Access Method for Machine Type Communications. IEEE Wireless Communications Letters, 2020, 9, 1720-1724.	3.2	37
13	Energy Internet via Packetized Management: Enabling Technologies and Deployment Challenges. IEEE Access, 2019, 7, 16909-16924.	2.6	36
14	Aggregation and Resource Scheduling in Machine-Type Communication Networks: A Stochastic Geometry Approach. IEEE Transactions on Wireless Communications, 2018, 17, 4750-4765.	6.1	34
15	Wireless Powered Communications With Finite Battery and Finite Blocklength. IEEE Transactions on Communications, 2018, 66, 1803-1816.	4.9	33
16	Network Slicing for URLLC and eMBB With Max-Matching Diversity Channel Allocation. IEEE Communications Letters, 2020, 24, 658-661.	2.5	32
17	An Adaptive Transmission Scheme for Cognitive Decode-and-Forward Relaying Networks: Half Duplex, Full Duplex, or No Cooperation. IEEE Transactions on Wireless Communications, 2016, 15, 5586-5602.	6.1	29
18	Ultra-Low Latency, Low Energy, and Massiveness in the 6G Era via Efficient CSIT-Limited Scheme. IEEE Communications Magazine, 2020, 58, 56-61.	4.9	29

#	ARTICLE	IF	CITATIONS
19	Enhanced physical layer security through transmit antenna selection. , 2011, , .		28
20	Performance analysis of full duplex and selective and incremental half duplex relaying schemes. , 2012, , .		28
21	Effective Capacity and Power Allocation for Machine-Type Communication. IEEE Transactions on Vehicular Technology, 2019, 68, 4098-4102.	3.9	27
22	On the Average Spectral Efficiency of Interference-Limited Full-Duplex Networks. , 2014, , .		25
23	Secrecy Analysis of Transmit Antenna Selection Cooperative Schemes With No Channel State Information at the Transmitter. IEEE Transactions on Communications, 2015, 63, 1330-1342.	4.9	25
24	K-Means Spreading Factor Allocation for Large-Scale LoRa Networks. Sensors, 2019, 19, 4723.	2.1	25
25	Statistical Analysis of Multiple Antenna Strategies for Wireless Energy Transfer. IEEE Transactions on Communications, 2019, 67, 7245-7262.	4.9	24
26	Hybrid Coded Replication in LoRa Networks. IEEE Transactions on Industrial Informatics, 2020, 16, 5577-5585.	7.2	24
27	Performance Analysis of Hybrid ARQ for Ultra-Reliable Low Latency Communications. IEEE Sensors Journal, 2019, 19, 3521-3531.	2.4	22
28	Joint Power Control and Rate Allocation Enabling Ultra-Reliability and Energy Efficiency in SIMO Wireless Networks. IEEE Transactions on Communications, 2019, 67, 5768-5782.	4.9	21
29	Enabling mMTC in Remote Areas: LoRaWAN and LEO Satellite Integration for Offshore Wind Farm Monitoring. IEEE Transactions on Industrial Informatics, 2022, 18, 3744-3753.	7.2	21
30	On the Performance of Secure Full-Duplex Relaying under Composite Fading Channels. IEEE Signal Processing Letters, 2015, 22, 867-870.	2.1	19
31	LoRa Performance Analysis with Superposed Signal Decoding. IEEE Wireless Communications Letters, 2020, 9, 1865-1868.	3.2	19
32	Maximizing the link throughput between smart meters and aggregators as secondary users under power and outage constraints. Ad Hoc Networks, 2016, 41, 57-68.	3.4	18
33	Traffic Prediction Based Fast Uplink Grant for Massive IoT. , 2020, , .		18
34	On the performance of cognitive full-duplex relaying under spectrum sharing constraints. Eurasip Journal on Wireless Communications and Networking, 2015, 2015, .	1.5	17
35	On CSI-Free Multiantenna Schemes for Massive RF Wireless Energy Transfer. IEEE Internet of Things Journal, 2021, 8, 278-296.	5.5	17
36	Massive Machine-Type Communication and Satellite Integration for Remote Areas. IEEE Wireless Communications, 2021, 28, 74-80.	6.6	17

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37	On the performance of two-way half-duplex and one-way full-duplex relaying. , 2013, , .		16
38	Optimum LoRaWAN Configuration Under Wi-SUN Interference. IEEE Access, 2019, 7, 170936-170948.	2.6	16
39	A Low-Complexity Beamforming Design for Multiuser Wireless Energy Transfer. IEEE Wireless Communications Letters, 2021, 10, 58-62.	3.2	16
40	Ultra reliable short message relaying with wireless power transfer. , 2017, , .		15
41	A Predictive Interference Management Algorithm for URLLC in Beyond 5G Networks. IEEE Communications Letters, 2021, 25, 995-999.	2.5	15
42	Selective Decode-and-Forward Using Fixed Relays and Packet Accumulation. IEEE Communications Letters, 2011, 15, 707-709.	2.5	14
43	Brief survey on full-duplex relaying and its applications on 5G. , 2015, , .		14
44	Enhanced Transmit Antenna Selection Scheme for Secure Throughput Maximization Without CSI at the Transmitter. IEEE Access, 2016, 4, 4861-4873.	2.6	14
45	Ultra Reliable Communication via Optimum Power Allocation for HARQ Retransmission Schemes. IEEE Access, 2020, 8, 89768-89781.	2.6	14
46	Non-Orthogonal Multiple Access and Network Slicing: Scalable Coexistence of eMBB and URLLC. , 2021, , .		14
47	A Learning-Based Fast Uplink Grant for Massive IoT via Support Vector Machines and Long Short-Term Memory. IEEE Internet of Things Journal, 2022, 9, 3889-3898.	5.5	14
48	Safeguarding MTC at the Physical Layer: Potentials and Challenges. IEEE Access, 2020, 8, 101437-101447.	2.6	14
49	Genetic Algorithm Aided Transmit Power Control in Cognitive Radio Networks. , 2014, , .		13
50	Cognitive Full-Duplex Decode-and-Forward Relaying Networks With Usable Direct Link and Transmit-Power Constraints. IEEE Access, 2018, 6, 24983-24995.	2.6	13
51	Dynamic Multi-Connectivity Activation for Ultra-Reliable and Low-Latency Communication. , 2019, , .		13
52	On the performance of full-duplex relaying under phy security constraints. , 2014, , .		12
53	Analysis and Simulation of LoRaWAN LR-FHSS for Direct-to-Satellite Scenario. IEEE Wireless Communications Letters, 2022, 11, 548-552.	3.2	12
54	Throughput analysis of cognitive wireless networks with Poisson distributed nodes based on location information. Ad Hoc Networks, 2015, 33, 1-15.	3.4	11

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55	Average Error Probability in Wireless Sensor Networks With Imperfect Sensing and Communication for Different Decision Rules. IEEE Sensors Journal, 2016, 16, 3948-3957.	2.4	11
56	Joint analog and digital self-interference cancellation and full-duplex system performance. , 2017, , .		11
57	Performance analysis of ultra-reliable short message decode and forward relaying protocols. Eurasip Journal on Wireless Communications and Networking, 2018, 2018, .	1.5	11
58	Performance Analysis of Single-Cell Adaptive Data Rate-Enabled LoRaWAN. IEEE Wireless Communications Letters, 2020, 9, 911-914.	3.2	11
59	Throughput performance of parallel and repetition coding in incremental decode-and-forward relaying. Wireless Networks, 2012, 18, 881-892.	2.0	10
60	Contention-Based Geographic Forwarding Strategies for Wireless Sensors Networks. IEEE Sensors Journal, 2016, 16, 2186-2195.	2.4	10
61	Rate Control under Finite Blocklength for Downlink Cellular Networks with Reliability Constraints. , 2018, , .		10
62	Finite Blocklength Error Probability Distribution for Designing Ultra Reliable Low Latency Systems. IEEE Access, 2020, 8, 107353-107363.	2.6	10
63	Performance of LoRaWAN for Handling Telemetry and Alarm Messages in Industrial Applications. Sensors, 2020, 20, 3061.	2.1	10
64	Machine-type wireless communications enablers for beyond 5G: Enabling URLLC via diversity under hard deadlines. Computer Networks, 2020, 174, 107227.	3.2	10
65	Mission Effective Capacity" A Novel Dependability Metric: A Study Case of Multiconnectivity-Enabled URLLC for IIoT. IEEE Transactions on Industrial Informatics, 2022, 18, 4180-4188.	7.2	10
66	Network Slicing for eMBB and mMTC with NOMA and Space Diversity Reception. , 2021, , .		10
67	Effective Energy Efficiency of Ultrareliable Low-Latency Communication. IEEE Internet of Things Journal, 2021, 8, 11135-11149.	5.5	10
68	D2D Assisted Q-Learning Random Access for NOMA-Based MTC Networks. IEEE Access, 2022, 10, 30694-30706.	2.6	10
69	An Adaptive Transmission Scheme for Amplify-and-Forward Relaying Networks. IEEE Transactions on Communications, 2016, , 1-1.	4.9	9
70	Demand Control Management in Microgrids: The Impact of Different Policies and Communication Network Topologies. IEEE Systems Journal, 2018, 12, 3577-3584.	2.9	9
71	Distributed Rate Control in Downlink NOMA Networks With Reliability Constraints. IEEE Transactions on Wireless Communications, 2019, 18, 5410-5423.	6.1	9
72	On the Secrecy Performance and Power Allocation in Relaying Networks With Untrusted Relay in the Partial Secrecy Regime. IEEE Transactions on Information Forensics and Security, 2020, 15, 2268-2281.	4.5	9

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73	On the Optimal Deployment of Power Beacons for Massive Wireless Energy Transfer. IEEE Internet of Things Journal, 2021, 8, 10531-10542.	5.5	9
74	Full-duplex communications in interference networks under composite fading channel. , 2014, , .		8
75	Throughput maximization in multi-hop wireless networks under a secrecy constraint. Computer Networks, 2016, 109, 13-20.	3.2	8
76	Beyond 5G Low-Power Wide-Area Networks: A LoRaWAN Suitability Study. , 2020, , .		8
77	On the Secrecy of Interference-Limited Networks under Composite Fading Channels. IEEE Signal Processing Letters, 2015, 22, 1306-1310.	2.1	7
78	Joint sampling-communication strategies for smart-meters to aggregator link as secondary users. , 2016, , .		7
79	On the performance of ultra-reliable decode and forward relaying under the finite blocklength. , 2017, , .		7
80	CSI-Free Rotary Antenna Beamforming for Massive RF Wireless Energy Transfer. IEEE Internet of Things Journal, 2022, 9, 7375-7387.	5.5	7
81	CSI-Free vs CSI-Based Multi-Antenna WET for Massive Low-Power Internet of Things. IEEE Transactions on Wireless Communications, 2021, 20, 3078-3094.	6.1	7
82	Energy-Efficient Wake-Up Signalling for Machine-Type Devices Based on Traffic-Aware Long Short-Term Memory Prediction. IEEE Internet of Things Journal, 2022, 9, 21620-21631.	5.5	7
83	Situational Awareness for Autonomous Ships in the Arctic: mMTC Direct-to-Satellite Connectivity. IEEE Communications Magazine, 2022, 60, 32-38.	4.9	7
84	Cooperative overlay secondary transmissions exploiting primary retransmissions. Eurasip Journal on Wireless Communications and Networking, 2013, 2013, .	1.5	6
85	On the statistics of the ratio of nonconstrained arbitrary $\chi^2$ random variables: A general framework and applications. Transactions on Emerging Telecommunications Technologies, 2020, 31, e3832.	2.6	6
86	Massive Wireless Energy Transfer With Statistical CSI Beamforming. IEEE Journal on Selected Topics in Signal Processing, 2021, 15, 1169-1184.	7.3	6
87	Fog-RAN Enabled Multi-Connectivity and Multi-Cell Scheduling Framework for Ultra-Reliable Low Latency Communication. IEEE Access, 2022, 10, 7059-7072.	2.6	6
88	Performance Analysis of MIMO-NOMA Iterative Receivers for Massive Connectivity. IEEE Access, 2022, 10, 46808-46822.	2.6	6
89	Performance of Type-I and Type-II Hybrid ARQ in Decode and Forward Relaying. , 2011, , .		5
90	Energy efficiency and throughput performance of power and rate allocation on incremental decode-and-forward relaying. Wireless Networks, 2012, 18, 495-505.	2.0	5

#	ARTICLE	IF	CITATIONS
91	Ultra-reliable short message cooperative relaying protocols under Nakagami-m fading. , 2017, , .		5
92	Finite Blocklength Communications in Smart Grids for Dynamic Spectrum Access and Locally Licensed Scenarios. IEEE Sensors Journal, 2018, 18, 5610-5621.	2.4	5
93	Rate Control for Wireless-Powered Communication Network With Reliability and Delay Constraints. IEEE Transactions on Wireless Communications, 2019, 18, 5791-5805.	6.1	5
94	Enhanced performance of heterogeneous networks through full-duplex relaying. Eurasip Journal on Wireless Communications and Networking, 2012, 2012, .	1.5	4
95	Secure Statistical QoS Provisioning for Machine-Type Wireless Communication Networks. , 2018, , .		4
96	Hybrid resource scheduling for aggregation in massive machine-type communication networks. Ad Hoc Networks, 2019, 94, 101932.	3.4	4
97	Performance Analysis Framework for NOMA Systems over Non-Identical Nakagami-m Fading Channels. , 2019, , .		4
98	Ultra-Reliable Communication for Critical Machine Type Communication via CRAN-Enabled Multi-Connectivity Diversity Schemes. Sensors, 2021, 21, 8064.	2.1	4
99	Hybrid Half- and Full-Duplex Communications under Correlated Lognormal Shadowing. , 2015, , .		3
100	Multi-class random access wireless network: General results and performance analysis of LoRaWAN. Ad Hoc Networks, 2022, 135, 102946.	3.4	3
101	Full-duplex transmission in small area radio communication systems. , 2015, , .		2
102	Increasing the Throughput of an Unlicensed Wireless Network through Retransmissions. , 2018, , .		2
103	Event-Based Electricity Metering: An Autonomous Method to Determine Transmission Thresholds. , 2018, , .		2
104	Achieving Ultra-Reliable Communication via CRAN-Enabled Diversity Schemes. , 2019, , .		2
105	In-Band Pilot Overhead in Ultra-Reliable Low Latency Decode and Forward Relaying. , 2019, , .		2
106	Fixed Rate Statistical QoS Provisioning for Markovian Sources in Machine Type Communication. , 2019, , .		2
107	Enabling URLLC for Low-Cost IoT Devices via Diversity Combining Schemes. , 2020, , .		2
108	A Throughput and Energy Efficiency Scheme for Unlicensed Massive Machine Type Communications â€. Sensors, 2020, 20, 2357.	2.1	2

#	ARTICLE	IF	CITATIONS
109	Full Duplex and Wireless-Powered Communications. , 2020, , 219-248.		2
110	On the fly self-organized base station placement. , 2012, , .		1
111	Performance of energy detector over Nakagami-m fading for relay-based cognitive radio networks. , 2012, , .		1
112	Using multiple co-channel femtocells as relays to increase the performance of the outdoor user. , 2013, , .		1
113	Decision error probability in a two-stage communication network for smart grids with imperfect links. , 2017, , .		1
114	On the Performance of Cognitive Full-Duplex Relaying Systems under Spectrum Sharing Constraints. , 2013, , .		1
115	Secure Rate Control and Statistical QoS Provisioning for Cloud-Based IoT Networks. Security and Communication Networks, 2021, 2021, 1-19.	1.0	1
116	Throughput performance of incremental decode-and-forward using infra-structured relays and rate allocation. , 2011, , .		0
117	Throughput of wireless networks with Poisson distributed nodes using location information. , 2014, , .		0
118	Energy Efficiency of an Unlicensed Wireless Network in the Presence of Retransmissions. , 2018, , .		0
119	On the SIR Meta Distribution in Massive MTC Networks with Scheduling and Data Aggregation. , 2021, , .		0