

# Xingwang Li

## 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.

118  
papers

1,768  
citations

21  
h-index

36  
g-index

138  
ext. papers

2,529  
ext. citations

3.7  
avg, IF

6.01  
L-index

#	Paper	IF	Citations
118	End-to-End Transmission Control for Cross-Regional Industrial Internet of Things in Industry 5.0. <i>IEEE Transactions on Industrial Informatics</i> , <b>2022</b> , 18, 4215-4223	11.9	6
117	Unmanned aerial vehicle technology in IoE <b>2022</b> , 137-184		
116	Backscatter technology and intelligent reflecting technology surface technology in the Internet of Things <b>2022</b> , 77-135		
115	Three major operating scenarios of 5G: eMBB, mMTC, URLLC <b>2022</b> , 15-76		2
114	Channel Parameter Estimation of mmWave MIMO System in Urban Traffic Scene: A Training Channel-Based Method. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2022</b> , 1-9	6.1	4
113	Exploiting Benefits of IRS in Wireless Powered NOMA Networks. <i>IEEE Transactions on Green Communications and Networking</i> , <b>2022</b> , 1-1	4	13
112	MmWave technology and Terahertz technology IoT communications <b>2022</b> , 185-243		
111	DFT Spread-Optical Pulse Amplitude Modulation for Visible Light Communication Systems. <i>IEEE Access</i> , <b>2022</b> , 1-1	3.5	
110	Covert non-orthogonal multiple access communication assisted by multi-antenna jamming. <i>Physical Communication</i> , <b>2022</b> , 52, 101598	2.2	5
109	Fair power allocation in cooperative cognitive systems under NOMA transmission for future IoT networks. <i>AEJ - Alexandria Engineering Journal</i> , <b>2022</b> , 61, 575-583	6.1	3
108	Partial and Full Relay Selection Algorithms for AF Multi-Relay Full-Duplex Networks with Self-Energy Recycling in Non-identically Distributed Fading Channels. <i>IEEE Transactions on Vehicular Technology</i> , <b>2022</b> , 1-1	6.8	2
107	Outage Performance of BackCom Systems with Multiple Self-Powered Tags under Channel Estimation Error. <i>IEEE Communications Letters</i> , <b>2022</b> , 1-1	3.8	0
106	Sum Rate Maximization for RIS-Aided NOMA with Direct Links. <i>IEEE Networking Letters</i> , <b>2022</b> , 1-1	2.8	1
105	Physical Layer Security of Two-Way Ambient Backscatter Communication Systems. <i>Wireless Communications and Mobile Computing</i> , <b>2022</b> , 2022, 1-10	1.9	0
104	Towards Energy-Efficient and Delay-Optimized Opportunistic Routing in Underwater Acoustic Sensor Networks for IoUT Platforms: An Overview and New Suggestions.. <i>Computational Intelligence and Neuroscience</i> , <b>2022</b> , 2022, 7061617	3	0
103	Tensor-based Joint Channel Estimation for Multi-way Massive MIMO Hybrid Relay Systems. <i>IEEE Transactions on Vehicular Technology</i> , <b>2022</b> , 1-1	6.8	0
102	Effective capacity analysis of reconfigurable intelligent surfaces aided NOMA network. <i>Eurasip Journal on Wireless Communications and Networking</i> , <b>2021</b> , 2021,	3.2	4

101	A Low-Complexity Soft-Output Signal Data Detection Algorithm for UL Massive MIMO Systems <b>2021,</b>		2
100	When NOMA Multiplexing Meets Symbiotic Ambient Backscatter Communication: Outage Analysis. <i>IEEE Transactions on Vehicular Technology, 2021, 1-1</i>	6.8	5
99	Mobile Collaborative Secrecy Performance Prediction for Artificial IoT Networks. <i>IEEE Transactions on Industrial Informatics, 2021, 1-1</i>	11.9	17
98	Resource Allocation for IRS Assisted Wireless Powered FDMA IoT Networks. <i>IEEE Internet of Things Journal, 2021, 1-1</i>	10.7	7
97	Outage Analysis for Tag Selection in Reciprocal Backscatter Communication Systems. <i>IEEE Wireless Communications Letters, 2021, 1-1</i>	5.9	1
96	NOMA-enabled Wireless Powered Backscatter Communications for Secure and Green IoT Networks. <i>Internet of Things, 2021, 103-131</i>	1.3	2
95	Reconfigurable Intelligent Surfaces based Cognitive Radio Networks <b>2021,</b>		5
94	Hardware Impaired Ambient Backscatter NOMA Systems: Reliability and Security. <i>IEEE Transactions on Communications, 2021, 69, 2723-2736</i>	6.9	94
93	Backscatter-Enabled NOMA for Future 6G Systems: A New Optimization Framework Under Imperfect SIC. <i>IEEE Communications Letters, 2021, 25, 1669-1672</i>	3.8	27
92	Hardware impaired modify-and-forward relaying with relay selection: Reliability and security. <i>Physical Communication, 2021, 46, 101315</i>	2.2	1
91	Energy efficiency maximization for beyond 5G NOMA-enabled heterogeneous networks. <i>Peer-to-Peer Networking and Applications, 2021, 14, 3250-3264</i>	3.1	13
90	Learning-based joint UAV trajectory and power allocation optimization for secure IoT networks. <i>Digital Communications and Networks, 2021,</i>	5.9	4
89	Hardware Impairments Aware Full-Duplex NOMA Networks Over Rician Fading Channels. <i>IEEE Systems Journal, 2021, 15, 2515-2518</i>	4.3	10
88	Toward Physical-Layer Security for Internet of Vehicles: Interference-Aware Modeling. <i>IEEE Internet of Things Journal, 2021, 8, 443-457</i>	10.7	10
87	. <i>IEEE Internet of Things Journal, 2021, 8, 5453-5467</i>	10.7	50
86	Sum Rate Maximization for IRS-Assisted Uplink NOMA. <i>IEEE Communications Letters, 2021, 25, 234-238</i>	3.8	65
85	Communication Quality Prediction for Internet of Vehicle (IoV) Networks: An Elman Approach. <i>IEEE Transactions on Intelligent Transportation Systems, 2021, 1-11</i>	6.1	7
84	Learning based MIMO communications with imperfect channel state information for Internet of Things. <i>Multimedia Tools and Applications, 2021, 80, 31265-31276</i>	2.5	0

83	. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2021</b> , 1-12	6.1	30
82	An Enhanced Spectrum Reservation Framework for Heterogeneous Users in CR-enabled IoT Networks. <i>IEEE Wireless Communications Letters</i> , <b>2021</b> , 1-1	5.9	6
81	Efficient Hybrid Beamforming Design in mmWave Massive MU-MIMO DF Relay Systems With the Mixed-Structure. <i>IEEE Access</i> , <b>2021</b> , 9, 66141-66153	3.5	2
80	NOMA-Enabled Optimization Framework for Next-Generation Small-Cell IoV Networks Under Imperfect SIC Decoding. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2021</b> , 1-10	6.1	18
79	A Comprehensive Survey on Machine Learning-Based Big Data Analytics for IoT-Enabled Smart Healthcare System. <i>Mobile Networks and Applications</i> , <b>2021</b> , 26, 234-252	2.9	56
78	Performance of NOMA-Enabled Cognitive Satellite-Terrestrial Networks With Non-Ideal System Limitations. <i>IEEE Access</i> , <b>2021</b> , 9, 35932-35946	3.5	8
77	Enabling NOMA in Backscatter Reconfigurable Intelligent Surfaces-Aided Systems. <i>IEEE Access</i> , <b>2021</b> , 9, 33782-33795	3.5	10
76	Research and Analysis of URLLC Technology Based on Artificial Intelligence. <i>IEEE Communications Standards Magazine</i> , <b>2021</b> , 1-8	3.3	5
75	Sparse Bayesian learning based channel estimation in FBMC/OQAM industrial IoT networks. <i>Computer Communications</i> , <b>2021</b> , 176, 40-45	5.1	19
74	Joint Spectrum and Energy Optimization of NOMA-Enabled Small-Cell Networks With QoS Guarantee. <i>IEEE Transactions on Vehicular Technology</i> , <b>2021</b> , 70, 8337-8342	6.8	12
73	Performance Analysis and Prediction for Mobile Internet-of-Things (IoT) Networks: A CNN Approach. <i>IEEE Internet of Things Journal</i> , <b>2021</b> , 8, 13355-13366	10.7	7
72	. <i>IEEE Transactions on Green Communications and Networking</i> , <b>2021</b> , 5, 1066-1076	4	33
71	Hybrid beamforming NOMA for mmWave half-duplex UAV relay-assisted B5G/6G IoT networks. <i>Computer Communications</i> , <b>2021</b> , 180, 232-232	5.1	2
70	Deep learning-based flexible joint channel estimation and signal detection of multi-user OFDM-NOMA. <i>Physical Communication</i> , <b>2021</b> , 48, 101443	2.2	7
69	Multiobjective Optimization of Uplink NOMA-Enabled Vehicle-to-Infrastructure Communication. <i>IEEE Access</i> , <b>2020</b> , 8, 84467-84478	3.5	19
68	A New Framework Combining Local-Region Division and Feature Selection for Micro-Expressions Recognition. <i>IEEE Access</i> , <b>2020</b> , 8, 94499-94509	3.5	1
67	Average Secrecy Capacity of SIMO k-Shadowed Fading Channels with Multiple Eavesdroppers <b>2020</b> ,		1
66	Physical Layer Security of Cooperative NOMA for IoT Networks Under I/Q Imbalance. <i>IEEE Access</i> , <b>2020</b> , 8, 51189-51199	3.5	20

65	Physical Layer Security in Vehicular Networks with Reconfigurable Intelligent Surfaces <b>2020</b> ,		29
64	. <i>IEEE Transactions on Vehicular Technology</i> , <b>2020</b> , 69, 12286-12290	6.8	78
63	. <i>IEEE Access</i> , <b>2020</b> , 8, 13329-13340	3.5	38
62	Link Selection in Buffer-Aided Cooperative Networks for Green IoT. <i>IEEE Access</i> , <b>2020</b> , 8, 30763-30771	3.5	16
61	Semi-Blind Receivers for Multi-User Massive MIMO Relay Systems Based on Block Tucker2-PARAFAC Tensor Model. <i>IEEE Access</i> , <b>2020</b> , 8, 32170-32186	3.5	7
60	I/Q Imbalance and Imperfect SIC on Two-Way Relay NOMA Systems. <i>Electronics (Switzerland)</i> , <b>2020</b> , 9, 249	2.6	5
59	Deep Learning-Based Secure MIMO Communications with Imperfect CSI for Heterogeneous Networks. <i>Sensors</i> , <b>2020</b> , 20,	3.8	5
58	. <i>IEEE Wireless Communications Letters</i> , <b>2020</b> , 9, 1538-1542	5.9	49
57	Physical Layer Security over SIMO Rician Shadowed Fading Channels. <i>Recent Advances in Electrical and Electronic Engineering</i> , <b>2020</b> , 13, 871-878	0.3	0
56	Multuser Beam Index Modulation Wireless Transmission with Analogue Beamforming Networks. <i>Recent Advances in Electrical and Electronic Engineering</i> , <b>2020</b> , 13, 322-330	0.3	
55	Full-Duplex Cooperative NOMA Relaying Systems With I/Q Imbalance and Imperfect SIC. <i>IEEE Wireless Communications Letters</i> , <b>2020</b> , 9, 17-20	5.9	76
54	Residual Transceiver Hardware Impairments on Cooperative NOMA Networks. <i>IEEE Transactions on Wireless Communications</i> , <b>2020</b> , 19, 680-695	9.6	135
53	Near-Optimal Design for Hybrid Beamforming in mmWave Massive Multi-User MIMO Systems. <i>IEEE Access</i> , <b>2020</b> , 8, 129153-129168	3.5	3
52	. <i>IEEE Access</i> , <b>2020</b> , 8, 95483-95490	3.5	0
51	SafeCity: Toward Safe and Secured Data Management Design for IoT-Enabled Smart City Planning. <i>IEEE Access</i> , <b>2020</b> , 8, 145256-145267	3.5	29
50	. <i>IEEE Access</i> , <b>2020</b> , 8, 148892-148905	3.5	21
49	Joint Impacts of Imperfect CSI and Imperfect SIC in Cognitive Radio-Assisted NOMA-V2X Communications. <i>IEEE Access</i> , <b>2020</b> , 8, 128629-128645	3.5	33
48	Reconfigurable Intelligent Surface Enabled IoT Networks in Generalized Fading Channels <b>2020</b> ,		17

47	Throughput Analysis of Multipair Two-Way Relaying Networks With NOMA and Imperfect CSI. <i>IEEE Access</i> , <b>2020</b> , 8, 128942-128953	3.5	13
46	Dual-Iterative Hybrid Beamforming Design for Millimeter-Wave Massive Multi-User MIMO Systems With Sub-Connected Structure. <i>IEEE Transactions on Vehicular Technology</i> , <b>2020</b> , 69, 13482-13496	6.8	5
45	Resource Allocation for Multicarrier Rate-Splitting Multiple Access System. <i>IEEE Access</i> , <b>2020</b> , 8, 174222-174233	3.5	13
44	. <i>IEEE Access</i> , <b>2020</b> , 8, 187165-187181	3.5	11
43	. <i>IEEE Transactions on Network Science and Engineering</i> , <b>2020</b> , 1-1	4.9	34
42	. <i>IEEE Access</i> , <b>2020</b> , 8, 158402-158415	3.5	7
41	. <i>IEEE Access</i> , <b>2020</b> , 8, 164347-164364	3.5	14
40	Performance Analysis of Impaired SWIPT NOMA Relaying Networks Over Imperfect Weibull Channels. <i>IEEE Systems Journal</i> , <b>2020</b> , 14, 669-672	4.3	67
39	Signal Reconstruction of Compressed Sensing Based on Alternating Direction Method of Multipliers. <i>Circuits, Systems, and Signal Processing</i> , <b>2020</b> , 39, 307-323	2.2	21
38	Mapping Design for $2^M$ -Ary Bit-Interleaved Polar Coded Modulation. <i>IEEE Access</i> , <b>2019</b> , 7, 116774-116784	3.5	15
37	Relay selection for cooperative NOMA system over correlated fading channel. <i>Physical Communication</i> , <b>2019</b> , 35, 100702	2.2	12
36	Secrecy Performance Analysis of SIMO Systems Over Correlated $\kappa\mu$ Shadowed Fading Channels. <i>IEEE Access</i> , <b>2019</b> , 7, 86090-86101	3.5	13
35	Joint Impact of Hardware Impairments and Imperfect Channel State Information on Multi-Relay Networks. <i>IEEE Access</i> , <b>2019</b> , 7, 72358-72375	3.5	5
34	Power beacon assisted wireless power cooperative relaying using NOMA with hardware impairments and imperfect CSI. <i>AEU - International Journal of Electronics and Communications</i> , <b>2019</b> , 108, 275-286	2.8	20
33	Secure analysis of multi-antenna cooperative networks with residual transceiver HIs and CEEs. <i>IET Communications</i> , <b>2019</b> , 13, 2649-2659	1.3	10
32	An Efficient Precoding Scheme for Millimeter-Wave Massive MIMO Systems. <i>Electronics (Switzerland)</i> , <b>2019</b> , 8, 927	2.6	12
31	. <i>IEEE Access</i> , <b>2019</b> , 7, 102644-102661	3.5	28
30	A Deterministic Construction for Jointly Designed Quasicyclic LDPC Coded-Relay Cooperation. <i>Wireless Communications and Mobile Computing</i> , <b>2019</b> , 2019, 1-12	1.9	4

29	Joint Effects of Residual Hardware Impairments and Channel Estimation Errors on SWIPT Assisted Cooperative NOMA Networks. <i>IEEE Access</i> , <b>2019</b> , 7, 135499-135513	3.5	26
28	Security Analysis of Multi-Antenna NOMA Networks Under I/Q Imbalance. <i>Electronics (Switzerland)</i> , <b>2019</b> , 8, 1327	2.6	10
27	Optimal Hybrid Beamforming Design for Millimeter-Wave Massive Multi-User MIMO Relay Systems. <i>IEEE Access</i> , <b>2019</b> , 7, 157212-157225	3.5	14
26	Non-Orthogonal Multiple Access in Cooperative UAV Networks: A Stochastic Geometry Model <b>2019</b> ,		3
25	Full-Duplex Energy-Harvesting Enabled Relay Networks in Generalized Fading Channels. <i>IEEE Wireless Communications Letters</i> , <b>2019</b> , 8, 384-387	5.9	15
24	Impact of hardware impairments on large-scale MIMO systems over composite RG fading channels. <i>AEU - International Journal of Electronics and Communications</i> , <b>2018</b> , 88, 134-140	2.8	8
23	An Improved Belief Propagation Decoding of Concatenated Polar Codes With Bit Mapping. <i>IEEE Communications Letters</i> , <b>2018</b> , 22, 1160-1163	3.8	7
22	Performance analysis of cooperative small cell systems under correlated Rician/Gamma fading channels. <i>IET Signal Processing</i> , <b>2018</b> , 12, 64-73	1.7	10
21	Secrecy Rate Optimization for Cooperative Cognitive Radio Networks Aided by a Wireless Energy Harvesting Jammer. <i>IEEE Access</i> , <b>2018</b> , 6, 34127-34134	3.5	21
20	Multi-Pair Two-Way Massive MIMO Relaying with Hardware Impairments over Rician Fading Channels <b>2018</b> ,		8
19	Joint Impact of Hardware Impairments and Imperfect CSI on Cooperative SWIPT NOMA Multi-Relaying Systems <b>2018</b> ,		16
18	Outage Performance of Cooperative NOMA Networks with Hardware Impairments <b>2018</b> ,		12
17	On the Concatenations of Polar Codes and Non-Binary LDPC Codes. <i>IEEE Access</i> , <b>2018</b> , 6, 65088-65097	3.5	2
16	Full-duplex wireless-powered jammer aided secure communication for cognitive radio networks. <i>Physical Communication</i> , <b>2018</b> , 31, 103-112	2.2	2
15	Performance analysis of physical layer security over shadowed fading channels. <i>IET Communications</i> , <b>2018</b> , 12, 970-975	1.3	17
14	Achievable Degrees of Freedom for the Two-Cell Two-Hop MIMO Interference Channel With Half-Duplex Relays. <i>IEEE Access</i> , <b>2017</b> , 5, 1376-1381	3.5	4
13	Performance analysis of distributed MIMO with ZF receivers over gamma shadowed correlated Rician fading channels. <i>Physical Communication</i> , <b>2017</b> , 25, 54-65	2.2	7
12	Effective Rate of MISO Systems Over $\kappa$ - $\mu$ Shadowed Fading Channels. <i>IEEE Access</i> , <b>2017</b> , 5, 10605-10611	3.5	44

11	Performance Analysis of Distributed MIMO With ZF Receivers Over Semi-Correlated $\mathcal{K}$ Fading Channels. <i>IEEE Access</i> , <b>2017</b> , 5, 9291-9303	3.5	19
10	Lower bound on the ergodic capacity of distributed MIMO systems over $K$ fading channels <b>2016</b> ,		1
9	Precoding Designs in Non-Regenerative MIMO Two-Way Relay Systems for Maximizing Weighted Sum Energy Efficiencies <b>2016</b> ,		1
8	Statistical evaluation of AC corona images in long-time scale and characterization of short-gap leader. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2016</b> , 23, 165-173	2.3	9
7	Approximate capacity analysis for distributed MIMO system over Generalized-K fading channels <b>2015</b> ,		1
6	Sum Rate Analysis of MU-MIMO with a 3D MIMO Base Station Exploiting Elevation Features. <i>International Journal of Antennas and Propagation</i> , <b>2015</b> , 2015, 1-9	1.2	13
5	Performance Analysis of 3D Massive MIMO Cellular Systems with Collaborative Base Station. <i>International Journal of Antennas and Propagation</i> , <b>2014</b> , 2014, 1-12	1.2	5
4	Achievable Sum Rate Analysis of ZF Receivers in 3D MIMO Systems. <i>KSII Transactions on Internet and Information Systems</i> , <b>2014</b> , 8, 1368-1389	1.7	6
3	Uniformity of dielectric barrier discharges using mesh electrodes. <i>Plasma Sources Science and Technology</i> , <b>2012</b> , 21, 065008	3.5	17
2	Classification of Dielectric Barrier Discharges Using Digital Image Processing Technology. <i>IEEE Transactions on Plasma Science</i> , <b>2012</b> , 40, 1371-1379	1.3	11
1	An intelligent heart disease prediction system based on swarm-artificial neural network. <i>Neural Computing and Applications</i> , 1	4.8	3