Xingwang Li

List of Publications by Year
in descending order

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133	3,516	172207	174990
papers	citations	29	52
		h-index	g-index

138	138	138	1934
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Residual Transceiver Hardware Impairments on Cooperative NOMA Networks. IEEE Transactions on Wireless Communications, 2020, 19, 680-695.	6.1	239
2	A Comprehensive Survey on Machine Learning-Based Big Data Analytics for IoT-Enabled Smart Healthcare System. Mobile Networks and Applications, 2021, 26, 234-252.	2.2	171
3	Hardware Impaired Ambient Backscatter NOMA Systems: Reliability and Security. IEEE Transactions on Communications, 2021, 69, 2723-2736.	4.9	162
4	Sum Rate Maximization for IRS-Assisted Uplink NOMA. IEEE Communications Letters, 2021, 25, 234-238.	2.5	144
5	Full-Duplex Cooperative NOMA Relaying Systems With I/Q Imbalance and Imperfect SIC. IEEE Wireless Communications Letters, 2020, 9, 17-20.	3.2	123
6	Secrecy Analysis of Ambient Backscatter NOMA Systems Under I/Q Imbalance. IEEE Transactions on Vehicular Technology, 2020, 69, 12286-12290.	3.9	120
7	Performance Analysis of Impaired SWIPT NOMA Relaying Networks Over Imperfect Weibull Channels. IEEE Systems Journal, 2020, 14, 669-672.	2.9	105
8	Cooperative Wireless-Powered NOMA Relaying for B5G IoT Networks With Hardware Impairments and Channel Estimation Errors. IEEE Internet of Things Journal, 2021, 8, 5453-5467.	5.5	100
9	Physical Layer Security of Cognitive Ambient Backscatter Communications for Green Internet-of-Things. IEEE Transactions on Green Communications and Networking, 2021, 5, 1066-1076.	3.5	93
10	Cognitive AmBC-NOMA IoV-MTS Networks With IQI: Reliability and Security Analysis. IEEE Transactions on Intelligent Transportation Systems, 2021, , 1-12.	4.7	88
11	UAV-Aided Multi-Way NOMA Networks With Residual Hardware Impairments. IEEE Wireless Communications Letters, 2020, 9, 1538-1542.	3.2	72
12	Physical Layer Security in Vehicular Networks with Reconfigurable Intelligent Surfaces. , 2020, , .		69
13	Joint Impacts of Imperfect CSI and Imperfect SIC in Cognitive Radio-Assisted NOMA-V2X Communications. IEEE Access, 2020, 8, 128629-128645.	2.6	63
14	Backscatter-Enabled NOMA for Future 6G Systems: A New Optimization Framework Under Imperfect SIC. IEEE Communications Letters, 2021, 25, 1669-1672.	2.5	61
15	Exploiting Benefits of IRS in Wireless Powered NOMA Networks. IEEE Transactions on Green Communications and Networking, 2022, 6, 175-186.	3.5	61
16	A Unified Framework for HS-UAV NOMA Networks: Performance Analysis and Location Optimization. IEEE Access, 2020, 8, 13329-13340.	2.6	58
17	Effective Rate of MISO Systems Over $kappa $ - $mu $ Shadowed Fading Channels. IEEE Access, 2017, 5, 10605-10611.	2.6	54
18	I/Q Imbalance Aware Nonlinear Wireless-Powered Relaying of B5G Networks: Security and Reliability Analysis. IEEE Transactions on Network Science and Engineering, 2021, 8, 2995-3008.	4.1	53

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19	Enabling Multiple Power Beacons for Uplink of NOMA-Enabled Mobile Edge Computing in Wirelessly Powered IoT. IEEE Access, 2020, 8, 148892-148905.	2.6	51
20	Effective Capacity Analysis of STAR-RIS-Assisted NOMA Networks. IEEE Wireless Communications Letters, 2022, 11, 1930-1934.	3.2	50
21	SafeCity: Toward Safe and Secured Data Management Design for IoT-Enabled Smart City Planning. IEEE Access, 2020, 8, 145256-145267.	2.6	44
22	Security and Reliability Performance Analysis of Cooperative Multi-Relay Systems With Nonlinear Energy Harvesters and Hardware Impairments. IEEE Access, 2019, 7, 102644-102661.	2.6	41
23	Physical Layer Security of Cooperative NOMA for IoT Networks Under I/Q Imbalance. IEEE Access, 2020, 8, 51189-51199.	2.6	38
24	Sparse Bayesian learning based channel estimation in FBMC/OQAM industrial IoT networks. Computer Communications, 2021, 176, 40-45.	3.1	38
25	Joint Effects of Residual Hardware Impairments and Channel Estimation Errors on SWIPT Assisted Cooperative NOMA Networks. IEEE Access, 2019, 7, 135499-135513.	2.6	36
26	NOMA-Enabled Optimization Framework for Next-Generation Small-Cell IoV Networks Under Imperfect SIC Decoding. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 22442-22451.	4.7	35
27	Reconfigurable Intelligent Surface Enabled IoT Networks in Generalized Fading Channels. , 2020, , .		33
28	Uplink and Downlink NOMA Transmission Using Full-Duplex UAV. IEEE Access, 2020, 8, 164347-164364.	2.6	32
29	Energy Efficiency Optimization for Backscatter Enhanced NOMA Cooperative V2X Communications Under Imperfect CSI. IEEE Transactions on Intelligent Transportation Systems, 2023, 24, 12961-12972.	4.7	31
30	Multiobjective Optimization of Uplink NOMA-Enabled Vehicle-to-Infrastructure Communication. IEEE Access, 2020, 8, 84467-84478.	2.6	30
31	Joint Spectrum and Energy Optimization of NOMA-Enabled Small-Cell Networks With QoS Guarantee. IEEE Transactions on Vehicular Technology, 2021, 70, 8337-8342.	3.9	30
32	Mobile Collaborative Secrecy Performance Prediction for Artificial IoT Networks. IEEE Transactions on Industrial Informatics, 2022, 18, 5403-5411.	7.2	30
33	Toward Physical-Layer Security for Internet of Vehicles: Interference-Aware Modeling. IEEE Internet of Things Journal, 2021, 8, 443-457.	5.5	28
34	Energy efficiency maximization for beyond 5G NOMA-enabled heterogeneous networks. Peer-to-Peer Networking and Applications, 2021, 14, 3250-3264.	2.6	28
35	Power beacon assisted wireless power cooperative relaying using NOMA with hardware impairments and imperfect CSI. AEU - International Journal of Electronics and Communications, 2019, 108, 275-286.	1.7	27
36	Secrecy Rate Optimization for Cooperative Cognitive Radio Networks Aided by a Wireless Energy Harvesting Jammer. IEEE Access, 2018, 6, 34127-34134.	2.6	26

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37	Optimal Hybrid Beamforming Design for Millimeter-Wave Massive Multi-User MIMO Relay Systems. IEEE Access, 2019, 7, 157212-157225.	2.6	25
38	Throughput Analysis of Multipair Two-Way Replaying Networks With NOMA and Imperfect CSI. IEEE Access, 2020, 8, 128942-128953.	2.6	25
39	Enabling NOMA in Backscatter Reconfigurable Intelligent Surfaces-Aided Systems. IEEE Access, 2021, 9, 33782-33795.	2.6	25
40	An intelligent heart disease prediction system based on swarm-artificial neural network. Neural Computing and Applications, 2023, 35, 14723-14737.	3.2	25
41	Secrecy Performance Analysis of SIMO Systems Over Correlated $kappa$ â€“mu Shadowed Fading Channels. IEEE Access, 2019, 7, 86090-86101.	2.6	24
42	An Efficient Precoding Scheme for Millimeter-Wave Massive MIMO Systems. Electronics (Switzerland), 2019, 8, 927.	1.8	24
43	Signal Reconstruction of Compressed Sensing Based on Alternating Direction Method of Multipliers. Circuits, Systems, and Signal Processing, 2020, 39, 307-323.	1.2	24
44	Resource Allocation for IRS-Assisted Wireless-Powered FDMA IoT Networks. IEEE Internet of Things Journal, 2022, 9, 8774-8785.	5.5	24
45	Uniformity of dielectric barrier discharges using mesh electrodes. Plasma Sources Science and Technology, 2012, 21, 065008.	1.3	23
46	Performance Analysis of Distributed MIMO With ZF Receivers Over Semi-Correlated $mathcal {K}$ Fading Channels. IEEE Access, 2017, 5, 9291-9303.	2.6	23
47	Performance analysis of physical layer security over shadowed fading channels. IET Communications, 2018, 12, 970-975.	1.5	22
48	Full-Duplex Energy-Harvesting Enabled Relay Networks in Generalized Fading Channels. IEEE Wireless Communications Letters, 2019, 8, 384-387.	3.2	22
49	Deep learning-based flexible joint channel estimation and signal detection of multi-user OFDM-NOMA. Physical Communication, 2021, 48, 101443.	1.2	22
50	When NOMA Multiplexing Meets Symbiotic Ambient Backscatter Communication: Outage Analysis. IEEE Transactions on Vehicular Technology, 2022, 71, 1026-1031.	3.9	22
51	End-to-End Transmission Control for Cross-Regional Industrial Internet of Things in Industry 5.0. IEEE Transactions on Industrial Informatics, 2022, 18, 4215-4223.	7.2	22
52	Security and Reliability Analysis of a Two-Way Half-Duplex Wireless Relaying Network Using Partial Relay Selection and Hybrid TPSR Energy Harvesting at Relay Nodes. IEEE Access, 2020, 8, 187165-187181.	2.6	21
53	Classification of Dielectric Barrier Discharges Using Digital Image Processing Technology. IEEE Transactions on Plasma Science, 2012, 40, 1371-1379.	0.6	20
54	Joint Impact of Hardware Impairments and Imperfect CSI on Cooperative SWIPT NOMA Multi-Relaying Systems. , 2018, , .		20

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55	Link Selection in Buffer-Aided Cooperative Networks for Green IoT. IEEE Access, 2020, 8, 30763-30771.	2.6	20
56	Hardware Impairments Aware Full-Duplex NOMA Networks Over Rician Fading Channels. IEEE Systems Journal, 2021, 15, 2515-2518.	2.9	20
57	Effective Capacity Analysis of AmBC-NOMA Communication Systems. IEEE Transactions on Vehicular Technology, 2022, 71, 11257-11261.	3.9	20
58	Dual-Iterative Hybrid Beamforming Design for Millimeter-Wave Massive Multi-User MIMO Systems With Sub-Connected Structure. IEEE Transactions on Vehicular Technology, 2020, 69, 13482-13496.	3.9	19
59	Fair power allocation in cooperative cognitive systems under NOMA transmission for future IoT networks. AEJ - Alexandria Engineering Journal, 2022, 61, 575-583.	3.4	19
60	Performance of NOMA-Enabled Cognitive Satellite-Terrestrial Networks With Non-Ideal System Limitations. IEEE Access, 2021, 9, 35932-35946.	2.6	18
61	Sum Rate Analysis of MU-MIMO with a 3D MIMO Base Station Exploiting Elevation Features. International Journal of Antennas and Propagation, 2015, 2015, 1-9.	0.7	17
62	Near-Optimal Design for Hybrid Beamforming in mmWave Massive Multi-User MIMO Systems. IEEE Access, 2020, 8, 129153-129168.	2.6	17
63	Learning-based joint UAV trajectory and power allocation optimization for secure IoT networks. Digital Communications and Networks, 2022, 8, 415-421.	2.7	17
64	Performance Analysis and Prediction for Mobile Internet-of-Things (IoT) Networks: A CNN Approach. IEEE Internet of Things Journal, 2021, 8, 13355-13366.	5.5	17
65	Outage Performance of Cooperative NOMA Networks with Hardware Impairments. , 2018, , .		16
66	Resource Allocation for Multicarrier Rate-Splitting Multiple Access System. IEEE Access, 2020, 8, 174222-174232.	2.6	16
67	Secure analysis of multiâ€antenna cooperative networks with residual transceiver HIs and CEEs. IET Communications, 2019, 13, 2649-2659.	1.5	15
68	Relay selection for cooperative NOMA system over correlated fading channel. Physical Communication, 2019, 35, 100702.	1.2	15
69	Security Analysis of Multi-Antenna NOMA Networks Under I/Q Imbalance. Electronics (Switzerland), 2019, 8, 1327.	1.8	15
70	An Enhanced Spectrum Reservation Framework for Heterogeneous Users in CR-Enabled IoT Networks. IEEE Wireless Communications Letters, 2021, 10, 2504-2508.	3.2	15
71	Reconfigurable Intelligent Surfaces based Cognitive Radio Networks. , 2021, , .		14
72	Channel Parameter Estimation of mmWave MIMO System in Urban Traffic Scene: A Training Channel-Based Method. IEEE Transactions on Intelligent Transportation Systems, 2024, 25, 754-762.	4.7	14

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73	Sum Rate Maximization for RIS-Aided NOMA With Direct Links. IEEE Networking Letters, 2022, 4, 55-58.	1.5	14
74	Performance analysis of cooperative small cell systems under correlated Rician/Gamma fading channels. IET Signal Processing, 2018, 12, 64-73.	0.9	13
75	Statistical evaluation of AC corona images in long-time scale and characterization of short-gap leader. IEEE Transactions on Dielectrics and Electrical Insulation, 2016, 23, 165-173.	1.8	12
76	Implementation-Friendly and Energy-Efficient Symbol-by-Symbol Detection Scheme for IEEE 802.15.4 O-QPSK Receivers. IEEE Access, 2020, 8, 158402-158415.	2.6	12
77	Semi-Blind Receivers for Multi-User Massive MIMO Relay Systems Based on Block Tucker2-PARAFAC Tensor Model. IEEE Access, 2020, 8, 32170-32186.	2.6	12
78	Communication Quality Prediction for Internet of Vehicle (IoV) Networks: An Elman Approach. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 19644-19654.	4.7	12
79	Hybrid beamforming NOMA for mmWave half-duplex UAV relay-assisted B5G/6G IoT networks. Computer Communications, 2021, 180, 232-242.	3.1	12
80	Achievable Sum Rate Analysis of ZF Receivers in 3D MIMO Systems. KSII Transactions on Internet and Information Systems, 2014, 8, 1368-1389.	0.7	12
81	Partial and Full Relay Selection Algorithms for AF Multi-Relay Full-Duplex Networks With Self-Energy Recycling in Non-Identically Distributed Fading Channels. IEEE Transactions on Vehicular Technology, 2022, 71, 6173-6188.	3.9	12
82	Effective capacity analysis of reconfigurable intelligent surfaces aided NOMA network. Eurasip Journal on Wireless Communications and Networking, 2021, 2021, .	1.5	11
83	An Improved Belief Propagation Decoding of Concatenated Polar Codes With Bit Mapping. IEEE Communications Letters, 2018, 22, 1160-1163.	2.5	10
84	I/Q Imbalance and Imperfect SIC on Two-Way Relay NOMA Systems. Electronics (Switzerland), 2020, 9, 249.	1.8	10
85	Impact of hardware impairments on large-scale MIMO systems over composite RG fading channels. AEU - International Journal of Electronics and Communications, 2018, 88, 134-140.	1.7	9
86	Joint Impact of Hardware Impairments and Imperfect Channel State Information on Multi-Relay Networks. IEEE Access, 2019, 7, 72358-72375.	2.6	9
87	Covert non-orthogonal multiple access communication assisted by multi-antenna jamming. Physical Communication, 2022, 52, 101598.	1.2	9
88	Overlay Cognitive ABCom-NOMA-Based ITS: An In-Depth Secrecy Analysis. IEEE Transactions on Intelligent Transportation Systems, 2022, , 1-12.	4.7	9
89	Performance Analysis of 3D Massive MIMO Cellular Systems with Collaborative Base Station. International Journal of Antennas and Propagation, 2014, 2014, 1-12.	0.7	8
90	Multi-Pair Two-Way Massive MIMO Relaying with Hardware Impairments over Rician Fading Channels. , 2018, , .		8

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91	Non-Orthogonal Multiple Access in Cooperative UAV Networks: A Stochastic Geometry Model. , 2019, , .		8
92	Efficient Hybrid Beamforming Design in mmWave Massive MU-MIMO DF Relay Systems With the Mixed-Structure. IEEE Access, 2021, 9, 66141-66153.	2.6	8
93	Research and Analysis of URLLC Technology Based on Artificial Intelligence. IEEE Communications Standards Magazine, 2021, 5, 37-43.	3.6	8
94	Towards Energy-Efficient and Delay-Optimized Opportunistic Routing in Underwater Acoustic Sensor Networks for IoUT Platforms: An Overview and New Suggestions. Computational Intelligence and Neuroscience, 2022, 2022, 1-15.	1.1	8
95	Performance analysis of distributed MIMO with ZF receivers over gamma shadowed correlated Rician fading channels. Physical Communication, 2017, 25, 54-65.	1.2	7
96	Deep Learning-Based Secure MIMO Communications with Imperfect CSI for Heterogeneous Networks. Sensors, 2020, 20, 1730.	2.1	7
97	A Deterministic Construction for Jointly Designed Quasicyclic LDPC Coded-Relay Cooperation. Wireless Communications and Mobile Computing, 2019, 2019, 1-12.	0.8	6
98	Physical Layer Security of Two-Way Ambient Backscatter Communication Systems. Wireless Communications and Mobile Computing, 2022, 2022, 1-10.	0.8	6
99	Achievable Degrees of Freedom for the Two-Cell Two-Hop MIMO Interference Channel With Half-Duplex Relays. IEEE Access, 2017, 5, 1376-1381.	2.6	5
100	A New Framework Combining Local-Region Division and Feature Selection for Micro-Expressions Recognition. IEEE Access, 2020, 8, 94499-94509.	2.6	5
101	Secrecy Performance Analysis of RIS-Enabled Wireless Networks Over Rayleigh Fading Channels. , 2021, , .		5
102	On the Concatenations of Polar Codes and Non-Binary LDPC Codes. IEEE Access, 2018, 6, 65088-65097.	2.6	4
103	Three major operating scenarios of 5G: eMBB, mMTC, URLLC. , 2022, , 15-76.		4
104	Performance limits of wireless powered cooperative NOMA over generalized fading. Transactions on Emerging Telecommunications Technologies, 0, , .	2.6	4
105	Tensor-Based Joint Channel Estimation for Multi-Way Massive MIMO Hybrid Relay Systems. IEEE Transactions on Vehicular Technology, 2022, 71, 9571-9585.	3.9	4
106	Sum Rate Analysis of Multicell MU-MIMO with 3D User Distribution and Base Station Tilting. , 2014, , .		3
107	Mapping Design for 2^{M} -Ary Bit-Interleaved Polar Coded Modulation. IEEE Access, 2019, 7, 116774-116784.	2.6	3
108	Average Secrecy Capacity of SIMO k-Î¼ Shadowed Fading Channels with Multiple Eavesdroppers. , 2020, , .		3

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109	Outage Analysis for Tag Selection in Reciprocal Backscatter Communication Systems. IEEE Wireless Communications Letters, 2022, 11, 210-214.	3.2	3
110	NOMA-enabled Wireless Powered Backscatter Communications for Secure and Green IoT Networks. Internet of Things, 2021, , 103-131.	1.3	3
111	A Low-Complexity Soft-Output Signal Data Detection Algorithm for UL Massive MIMO Systems. , 2021, , .		3
112	DFT Spread-Optical Pulse Amplitude Modulation for Visible Light Communication Systems. IEEE Access, 2022, 10, 15956-15967.	2.6	3
113	Outage Performance of BackCom Systems With Multiple Self-Powered Tags Under Channel Estimation Error. IEEE Communications Letters, 2022, 26, 1548-1552.	2.5	3
114	Approximate capacity analysis for distributed MIMO system over Generalized-K fading channels. , 2015, , .		2
115	Lower bound on the ergodic capacity of distributed MIMO systems over K fading channels. , 2016, , .		2
116	Full-duplex wireless-powered jammer aided secure communication for cognitive radio networks. Physical Communication, 2018, 31, 103-112.	1.2	2
117	An Improved Remote Sensing Image Fusion Algorithm Based on IHS Transformation. KSII Transactions on Internet and Information Systems, 2017, 11, .	0.7	2
118	Downlink Performance Analysis of Multicell Multiuser 3D MIMO System. , 2015, , .		1
119	Precoding Designs in Non-Regenerative MIMO Two-Way Relay Systems for Maximizing Weighted Sum Energy Efficiencies. , 2016, , .		1
120	Very Low Frequency Propagation Characteristics Analysis in Coal Mines. IEEE Access, 2020, 8, 95483-95490.	2.6	1
121	Learning based MIMO communications with imperfect channel state information for Internet of Things. Multimedia Tools and Applications, 2021, 80, 31265-31276.	2.6	1
122	Hardware impaired modify-and-forward relaying with relay selection: Reliability and security. Physical Communication, 2021, 46, 101315.	1.2	1
123	Security performance analysis of SIMO relay systems over Composite Fading Channels. KSII Transactions on Internet and Information Systems, 2020, 14, .	0.7	1
124	A Real-Time Traffic Surveillance and Security System using Transfer Learning and Edge Computing. , 2020, , .		1
125	Physical Layer Security over SIMO Î°-Î¼ Shadowed Fading Channels. Recent Advances in Electrical and Electronic Engineering, 2020, 13, 871-878.	0.2	1
126	Guest Editorial: Special Issue on Artificial Intelligence in E-Healthcare and M-Healthcare. Journal of Healthcare Engineering, 2021, 2021, 1-3.	1.1	1

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127	Underlay Hybrid Satellite-Terrestrial Relay Networks under Realistic Hardware and Channel Conditions. , 2021, , .		1
128	Unmanned aerial vehicle technology in IoE. , 2022, , 137-184.		1
129	Glioma Segmentation Strategies in 5G Teleradiology. , 2020, , .		0
130	Numerical Simulation of Corona-type (Non-thermal) Leader in the Point Head Rod-Plane Short Gap. , 2021, , .		0
131	Multiuser Beam Index Modulation Wireless Transmission with Analogue Beamforming Networks. Recent Advances in Electrical and Electronic Engineering, 2020, 13, 322-330.	0.2	0
132	Backscatter technology and intelligent reflecting technology surface technology in the Internet of Things. , 2022, , 77-135.		0
133	MmWave technology and Terahertz technology IoT communications. , 2022, , 185-243.		0