

# Jingxian Wu

## List of Publications by Year in descending order

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176  
papers

2,559  
citations

331670

21  
h-index

243625

44  
g-index

176  
all docs

176  
docs citations

176  
times ranked

2122  
citing authors

#	ARTICLE	IF	CITATIONS
1	Approximating a Sum of Random Variables with a Lognormal. IEEE Transactions on Wireless Communications, 2007, 6, 2690-2699.	9.2	290
2	A Survey on High Mobility Wireless Communications: Challenges, Opportunities and Solutions. IEEE Access, 2016, 4, 450-476.	4.2	233
3	Optimal Status Update for Age of Information Minimization With an Energy Harvesting Source. IEEE Transactions on Green Communications and Networking, 2018, 2, 193-204.	5.5	232
4	A Discrete-Time Model for Triply Selective MIMO Rayleigh Fading Channels. IEEE Transactions on Wireless Communications, 2004, 3, 1678-1688.	9.2	151
5	Estimation of Channel Transfer Function and Carrier Frequency Offset for OFDM Systems With Phase Noise. IEEE Transactions on Vehicular Technology, 2009, 58, 4380-4387.	6.3	75
6	Energy Efficiency and Spectral Efficiency Tradeoff in Type-I ARQ Systems. IEEE Journal on Selected Areas in Communications, 2014, 32, 356-366.	14.0	63
7	Turbo equalization for single-carrier underwater acoustic communications. , 2015, 53, 79-87.		60
8	Unified Spectral Efficiency Analysis of Cellular Systems with Channel-Aware Schedulers. IEEE Transactions on Communications, 2011, 59, 3463-3474.	7.8	52
9	Pulsed terahertz imaging of breast cancer in freshly excised murine tumors. Journal of Biomedical Optics, 2018, 23, 1.	2.6	51
10	Enhanced MIMO LMMSE Turbo Equalization: Algorithm, Simulations, and Undersea Experimental Results. IEEE Transactions on Signal Processing, 2011, 59, 3813-3823.	5.3	49
11	Maximizing Spectral Efficiency for High Mobility Systems with Imperfect Channel State Information. IEEE Transactions on Wireless Communications, 2014, 13, 1462-1470.	9.2	48
12	High Mobility Wireless Communications With Doppler Diversity: Fundamental Performance Limits. IEEE Transactions on Wireless Communications, 2015, 14, 6981-6992.	9.2	44
13	Optimal diversity combining based on linear estimation of rician fading channels. IEEE Transactions on Communications, 2008, 56, 1612-1615.	7.8	40
14	Low complexity soft-input soft-output block decision feedback equalization. IEEE Journal on Selected Areas in Communications, 2008, 26, 281-289.	14.0	37
15	Queue-Aware Energy-Efficient Joint Remote Radio Head Activation and Beamforming in Cloud Radio Access Networks. IEEE Transactions on Wireless Communications, 2016, 15, 3880-3894.	9.2	37
16	Connectivity of mobile linear networks with dynamic node population and delay constraint. IEEE Journal on Selected Areas in Communications, 2009, 27, 1218-1225.	14.0	34
17	Approximating the Sum of Correlated Lognormal or, Lognormal-Rice Random Variables. , 2006, , .		33
18	Assessment of Terahertz Imaging for Excised Breast Cancer Tumors with Image Morphing. Journal of Infrared, Millimeter, and Terahertz Waves, 2018, 39, 1283-1302.	2.2	31

#	ARTICLE	IF	CITATIONS
19	Massively Distributed Antenna Systems With Nonideal Optical Fiber Fronthauls: A Promising Technology for 6G Wireless Communication Systems. IEEE Vehicular Technology Magazine, 2020, 15, 43-51.	3.4	31
20	Optimal Scheduling of Collaborative Sensing in Energy Harvesting Sensor Networks. IEEE Journal on Selected Areas in Communications, 2015, 33, 512-523.	14.0	30
21	Optimum Sensor Density in Distortion-Tolerant Wireless Sensor Networks. IEEE Transactions on Wireless Communications, 2012, 11, 2056-2064.	9.2	29
22	Optimum Integration of Solar Energy With Battery Energy Storage Systems. IEEE Transactions on Engineering Management, 2022, 69, 697-707.	3.5	28
23	Multi-user Multi-channel Computation Offloading and Resource Allocation for Mobile Edge Computing. , 2020, , .		25
24	Flexible lognormal sum approximation method. , 2005, , .		24
25	Connectivity Analysis of a Mobile Vehicular Ad Hoc Network with Dynamic Node Population. , 2008, , .		24
26	Oversampled Orthogonal Frequency Division Multiplexing in Doubly Selective Fading Channels. IEEE Transactions on Communications, 2011, 59, 815-822.	7.8	23
27	Optimum Energy- and Spectral-Efficient Transmissions for Delay-Constrained Hybrid ARQ Systems. IEEE Transactions on Vehicular Technology, 2016, 65, 5212-5221.	6.3	23
28	Minimizing End-to-End Delays in Linear Multihop Networks. IEEE Transactions on Vehicular Technology, 2016, 65, 6487-6496.	6.3	22
29	Error Performance of Double Space Time Transmit Diversity System. IEEE Transactions on Wireless Communications, 2007, 6, 3191-3196.	9.2	19
30	Performance Analysis of Wireless Systems With Doubly Selective Rayleigh Fading. IEEE Transactions on Vehicular Technology, 2007, 56, 721-730.	6.3	19
31	Max-Min Optimal Beamforming for Cell-Free Massive MIMO. IEEE Communications Letters, 2020, 24, 2344-2348.	4.1	19
32	Adaptive sensing scheduling for energy harvesting sensors with finite battery. , 2015, , .		18
33	Optimal Online Sensing Scheduling for Energy Harvesting Sensors With Infinite and Finite Batteries. IEEE Journal on Selected Areas in Communications, 2016, 34, 1578-1589.	14.0	17
34	Breast Cancer Detection With Low-Dimensional Ordered Orthogonal Projection in Terahertz Imaging. IEEE Transactions on Terahertz Science and Technology, 2020, 10, 176-189.	3.1	16
35	Low Latency Bearing Fault Detection of Direct-Drive Wind Turbines Using Stator Current. IEEE Access, 2020, 8, 44163-44174.	4.2	16
36	On the error performance of wireless systems with frequency selective fading and receiver timing phase offset. IEEE Transactions on Wireless Communications, 2007, 6, 720-729.	9.2	15

#	ARTICLE	IF	CITATIONS
37	Energy Efficient Designs of Ultra-Dense IoT Networks With Nonideal Optical Front-Hauls. IEEE Internet of Things Journal, 2019, 6, 7934-7945.	8.7	15
38	Optimum sampling in spatial-temporally correlated wireless sensor networks. Eurasip Journal on Wireless Communications and Networking, 2013, 2013, .	2.4	14
39	Collision-Tolerant Media Access Control with On-Off Accumulative Transmission. IEEE Transactions on Wireless Communications, 2013, 12, 50-59.	9.2	14
40	Optimizing age-of-information and energy efficiency tradeoff for mobile pushing notifications. , 2017, , .		14
41	Fundamental Tradeoff Between Doppler Diversity and Channel Estimation Errors in SIMO High Mobility Communication Systems. IEEE Access, 2018, 6, 21867-21878.	4.2	14
42	Unsupervised Bayesian learning for rice panicle segmentation with UAV images. Plant Methods, 2020, 16, 18.	4.3	14
43	A discrete-time model for spatio-temporally correlated MIMO WSSUS multipath channels. , 0, , .		13
44	An accurate frame error rate approximation of coded diversity systems with non-identical diversity branches. , 2014, , .		13
45	Inversion modeling of japonica rice canopy chlorophyll content with UAV hyperspectral remote sensing. PLoS ONE, 2020, 15, e0238530.	2.5	13
46	Supervised Bayesian learning for breast cancer detection in terahertz imaging. Biomedical Signal Processing and Control, 2021, 70, 102949.	5.7	13
47	Optimum Energy Efficiency and Age-of-Information Tradeoff in Multicast Scheduling. , 2018, , .		12
48	Quickest Detection of False Data Injection Attacks in Smart Grid with Dynamic Models. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 1292-1302.	5.4	12
49	Time-Varying and Frequency-Selective Channel Estimation with Unequally Spaced Pilot Symbols. International Journal of Wireless Information Networks, 2004, 11, 93-104.	2.7	11
50	Cross-layer design of energy efficient coded ARQ systems. , 2012, , .		11
51	On the Uplink Capacity of High Speed Railway Communications with Massive MIMO Systems. , 2014, , .		11
52	Optimal transmission for energy harvesting nodes under battery size and usage constraints. , 2017, , .		11
53	Low Latency Detection of Sparse False Data Injections in Smart Grids. IEEE Access, 2018, 6, 58564-58573.	4.2	11
54	Multuser channel estimation for CDMA systems over frequency-selective fading channels. IEEE Transactions on Wireless Communications, 2005, 4, 1724-1736.	9.2	10

#	ARTICLE	IF	CITATIONS
55	Low Complexity Soft-Input Soft-Output Block Decision Feedback Equalization. , 2007, , .		10
56	A New Ultra-Low Power Wireless Sensor Network with Integrated Energy Harvesting, Data Sensing, and Wireless Communication. , 2011, , .		10
57	Collision-Tolerant Media Access Control for Asynchronous Users over Frequency-Selective Channels. IEEE Transactions on Wireless Communications, 2013, 12, 5162-5171.	9.2	10
58	Two-Stage List Sphere Decoding for Under-Determined Multiple-Input Multiple-Output Systems. IEEE Transactions on Wireless Communications, 2013, 12, 6476-6487.	9.2	9
59	Optimal status updating to minimize age of information with an energy harvesting source. , 2017, , .		9
60	Delay and Energy Efficiency Tradeoff for Information Pushing System. IEEE Transactions on Green Communications and Networking, 2018, 2, 1027-1040.	5.5	9
61	Adaptive Transmit Diversity with Quadrant Phase Constraining Feedback. Wireless Personal Communications, 2006, 38, 443-454.	2.7	8
62	WLCp1-04: Exploring Maximum Doppler Diversity by Doppler Domain Multiplexing. IEEE Global Telecommunications Conference (GLOBECOM), 2006, , .	0.0	8
63	Improved BDFE Using A Priori Information for Turbo Equalization. IEEE Transactions on Wireless Communications, 2008, 7, 233-240.	9.2	8
64	Optimal sampling of random processes under stochastic energy constraints. , 2014, , .		8
65	Energy and spectral efficient Doppler diversity transmissions in high-mobility systems with imperfect channel estimation. Eurasip Journal on Wireless Communications and Networking, 2015, 2015, .	2.4	8
66	Mammary tumors in Sprague Dawley rats induced by N-ethyl-N-nitrosourea for evaluating terahertz imaging of breast cancer. Journal of Medical Imaging, 2021, 8, 023504.	1.5	8
67	Low Complexity Turbo Detection of Coded Under-Determined MIMO Systems. , 2011, , .		7
68	Level set estimation with dynamic sparse sensing. , 2014, , .		7
69	Energy Efficient Optimum Sensing With Energy Harvesting Power Sources. IEEE Access, 2015, 3, 989-997.	4.2	7
70	On the Outage Probability of Interference-Limited Multi-Hop Linear Vehicular Ad-Hoc Network. IEEE Access, 2018, 6, 75395-75406.	4.2	7
71	Reliability-Based Turbo Detection. IEEE Transactions on Wireless Communications, 2011, 10, 2352-2361.	9.2	6
72	Energy and spectral efficient transmissions of coded ARQ systems. , 2013, , .		6

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73	Spectral Efficient Doppler Diversity Transmissions in High Mobility Systems with Channel Estimation Errors. , 2015, , .		6
74	Venous Physiology Predicts Dehydration in the Pediatric Population. Journal of Surgical Research, 2019, 238, 232-239.	1.6	6
75	On the error performance of linearly modulated systems with doubly selective Rayleigh fading channels. , 0, , .		5
76	Combining Orthogonal Space Time Block Codes with Adaptive Sub-group Antenna Encoding. International Journal of Wireless Information Networks, 2005, 12, 179-186.	2.7	5
77	Optimal Sensor Density in a Distortion-Tolerant Linear Wireless Sensor Network. , 2010, , .		5
78	Oversampled OFDM detector for MIMO underwater acoustic communications. , 2010, , .		5
79	Minimum Error Transmissions with Imperfect Channel Information in High Mobility Systems. , 2013, , .		5
80	Online throughput maximization in an energy harvesting multiple access channel with fading. , 2015, , .		5
81	Optimum designs of high mobility wireless systems with channel estimation errors. IET Communications, 2015, 9, 1677-1682.	2.2	5
82	Connectivity Probability of Interference-Limited Linear Multi-Hop Ad-Hoc Networks. , 2016, , .		5
83	Statistical signal processing for quantitative assessment of pulsed terahertz imaging of human breast tumors. , 2017, , .		5
84	Maximizing End-to-End Throughput of Interference-Limited Multihop Networks. IEEE Transactions on Vehicular Technology, 2018, 67, 5465-5469.	6.3	5
85	Optimum Spectral and Energy Efficiency Tradeoff in Two-User Gaussian Interference Channel. IEEE Wireless Communications Letters, 2018, 7, 468-471.	5.0	5
86	Low latency cyberattack detection in smart grids with deep reinforcement learning. International Journal of Electrical Power and Energy Systems, 2022, 142, 108265.	5.5	5
87	Cooperative Spectrum Sensing with a Progressive MAP Detection Algorithm. , 2011, , .		4
88	Optimum energy efficient communications for hybrid ARQ systems. , 2013, , .		4
89	Maximizing spectral efficiency with imperfect channel information in high mobility systems. , 2013, , .		4
90	Low complexity detection algorithm for under-determined MIMO systems. , 2014, , .		4

#	ARTICLE	IF	CITATIONS
91	The asymptotic equivalence between sensing systems with energy harvesting and conventional energy sources. , 2014, , .		4
92	Simplified Parallel Interference Cancellation for Underdetermined MIMO Systems. IEEE Transactions on Vehicular Technology, 2014, 63, 3196-3208.	6.3	4
93	Low-complexity soft-interference cancellation turbo equalisation for multi-input-multi-output systems with multilevel modulations. IET Communications, 2015, 9, 728-735.	2.2	4
94	Energy-Efficient Wireless Sensing for Level Set Estimations. IEEE Access, 2015, 3, 1480-1490.	4.2	4
95	Optimum sensing of a time-varying random event with energy harvesting power sources. , 2015, , .		4
96	An Accurate Frame Error Rate Approximation of Coded Diversity Systems. Wireless Personal Communications, 2016, 86, 1377-1386.	2.7	4
97	BAYESIAN QUICKEST CHANGE POINT DETECTION WITH MULTIPLE CANDIDATES OF POST-CHANGE MODELS. , 2018, , .		4
98	Spectral efficiency analysis of cellular systems with channel-aware schedulers. , 2005, , .		3
99	Oversampled Orthogonal Frequency Division Multiplexing in Doubly Selective Fading. , 2008, , .		3
100	Doppler Spread Estimation for Broadband Wireless OFDM Systems Over Rician Fading Channels. International Journal of Wireless Information Networks, 2009, 16, 197-208.	2.7	3
101	Ultra-lowpower compressive wireless sensing for distributed wireless networks. , 2009, , .		3
102	Cross-layer collision-tolerant MAC with message passing detection. , 2012, , .		3
103	Optimum multi-hop transmission strategies for energy constrained wireless sensor networks. , 2012, , .		3
104	Distributed joint source-channel code for spatial-temporally correlated Markov sources. , 2013, , .		3
105	Optimum designs for high mobility systems with channel estimation errors. , 2014, , .		3
106	Optimum number of hops of linear multi-hop networks with equidistant relays. , 2014, , .		3
107	Performance analysis and antenna selection of high speed railway communications systems with distributed antennas. , 2014, , .		3
108	Maximum Doppler diversity transmissions for high mobility systems with imperfect channel state information. , 2014, , .		3

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109	On the maximum Doppler diversity of high mobility systems with imperfect channel state information. , 2015, , .		3
110	On the asymptotic equivalence between stochastic and deterministic energy sources in energy harvesting sensing systems. Eurasip Journal on Wireless Communications and Networking, 2015, 2015, .	2.4	3
111	Level Set Estimation of Spatial-Temporally Correlated Random Fields With Active Sparse Sensing. IEEE Transactions on Aerospace and Electronic Systems, 2017, 53, 862-876.	4.7	3
112	Terahertz imaging of freshly excised breast cancer using mouse model. , 2017, , .		3
113	Lessons learned measuring peripheral venous pressure waveforms in an anesthetized pediatric population. Biomedical Physics and Engineering Express, 2019, 5, 035020.	1.2	3
114	Anesthetics affect peripheral venous pressure waveforms and the cross-talk with arterial pressure. Journal of Clinical Monitoring and Computing, 2021, , 1.	1.6	3
115	Doppler Spread Estimation for Broadband Wireless OFDM Systems. , 2007, , .		2
116	Soft-Decode-and-Forward for Asynchronous Wireless Networks with Doubly-Selective Fading. , 2009, , .		2
117	Cross-Layer Design of Random On-Off Accumulative Transmission with Iterative Detections. , 2011, , .		2
118	Frequency-domain on-off accumulative transmission over frequency-selective fading channels. , 2012, , .		2
119	A modified fixed sphere decoding algorithm for under-determined MIMO systems. , 2012, , .		2
120	On the Performance of Doubly-Selective Fading Estimations in High Mobility Systems. , 2014, , .		2
121	Unifying energy harvesting, sensing, and communication for ultra-low power structure health monitoring. Eurasip Journal on Wireless Communications and Networking, 2015, 2015, .	2.4	2
122	MMSE-beamforming for multi-user multiple-input multiple-output systems with distributed antennas. , 2015, , .		2
123	Optimal energy management for energy harvesting transmitters under battery usage constraint. , 2016, , .		2
124	Optimal energy efficient level set estimation of spatially-temporally correlated random fields. , 2016, , .		2
125	On the end-to-end delay of interference-limited mobile multihop networks. , 2016, , .		2
126	Optimum PMU placement for power system state estimation. , 2017, , .		2



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127	Graph-based multiple-line outage identification in power transmission systems. , 2017, , .		2
128	Venous Physiology Predicts Anesthetic Induced Hypotension in Infants. Journal of the American College of Surgeons, 2018, 227, e116.	0.5	2
129	Distributed Data Diffusion in Finite Time in Decentralized Networks. , 2018, , .		2
130	Optimum Distributed Estimation of a Spatially Correlated Random Field. IEEE Transactions on Signal and Information Processing Over Networks, 2019, 5, 739-752.	2.8	2
131	Cancer Classification of Freshly Excised Murine Tumors with Ordered Orthogonal Projection. , 2019, , .		2
132	Unsupervised anomaly detection in peripheral venous pressure signals with hidden Markov models. Biomedical Signal Processing and Control, 2020, 62, 102126.	5.7	2
133	Tensor-computing-based Spectrum Usage Framework for 6G. , 2020, , .		2
134	Spatial Image Segmentation for Breast Cancer Detection in Terahertz Imaging. , 2020, , .		2
135	Matched filter bound of wireless systems over frequency selective channels with receiver timing phase offset. , 2005, , .		1
136	Integrated software-hardware design for ultra-low power infrastructure monitoring. , 2009, , .		1
137	Connectivity Analysis of Mobile Linear Networks with Delay Constraint. , 2009, , .		1
138	Random On-Off Accumulative Transmission for Asynchronous Wireless Sensor Networks. , 2010, , .		1
139	Enhanced MIMO LMMSE Turbo Equalization. , 2010, , .		1
140	Optimum Sampling in a Spatial-Temporally Correlated Wireless Sensor Network. , 2011, , .		1
141	Distributed joint source and channel code with correlated information sources. , 2012, , .		1
142	Cooperative spectrum sensing with Slepian-Wolf coded cooperations. , 2012, , .		1
143	Multi-carrier circular-shift division multiple access for multi-user wireless systems. , 2014, , .		1
144	Optimum Level Set Estimation of a Time-Varying Random Field under a Power Constraint. , 2015, , .		1

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145	On the Precoding for Multi-Cell Massive MIMO Systems with Distributed Antenna Subarrays. , 2016, , .		1
146	Optimum designs of wireless ad hoc networks with random multiple access. , 2017, , .		1
147	Maximum diversity order of SIMO high mobility systems with imperfect channel state information. , 2017, , .		1
148	Distributed estimation of a spatially correlated random field in decentralized sensor networks. , 2017, , .		1
149	BBoF v.s. RFoF in Fiber-Wireless Communication Systems. , 2018, , .		1
150	Performance analysis for high-speed railway distributed antenna systems with imperfect channel state information. Eurasip Journal on Wireless Communications and Networking, 2018, 2018, .	2.4	1
151	Explicit Inverse of the Covariance Matrix of Random Variables with Power-Law Covariance. , 2018, , .		1
152	PMU-Assisted Bad Data Detection in Power Systems. , 2018, , .		1
153	Minimizing Energy Consumptions in User-Centric Ultra-Dense Networks. , 2018, , .		1
154	Optimum Design of Battery-Assisted Photo-Voltaic Energy System for a Commercial Application. , 2019, , .		1
155	Supervised Statistical Learning for Cancer Detection in Dehydrated Excised Tissue with Terahertz Imaging. , 2020, , .		1
156	Quickest change point detection with multiple postchange models. Sequential Analysis, 2020, 39, 543-562.	0.5	1
157	Critical Information from High Fidelity Arterial and Venous Pressure Waveforms During Anesthesia and Hemorrhage. Cardiovascular Engineering and Technology, 2022, 13, 886-898.	1.6	1
158	Time-varying and frequency-selective channel estimation with unequally spaced pilot symbols. , 0, , .		0
159	Error Performance of Double Space Time Transmit Diversity System. , 2006, , .		0
160	Graph modulations for massive MIMO systems. , 2013, , .		0
161	Low complexity soft-interference cancellation turbo equalization for MIMO systems with multilevel modulations. , 2013, , .		0
162	EEG-based golf putt outcome prediction using support vector machine. , 2014, , .		0

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163	Queue-Aware Joint Remote Radio Head Activation and Beamforming for Green Cloud Radio Access Networks. , 2014, , .		0
164	Optimum Level Set Estimation of a Time-Varying Random Field under a Power Constraint. , 2014, , .		0
165	Clock timing mismatch compensation in direct sampling receiver. , 2015, , .		0
166	Circular-shift division multiple access with oversampling receivers. , 2015, , .		0
167	Optimum Poisson Sensing with Energy Harvesting Power Sources. , 2016, , .		0
168	Sparsity-aided iterative receiver for large scale under-determined MIMO systems. , 2017, , .		0
169	Optimum Multicast Scheduling in Delay-Constrained Content-Centric Wireless Networks. , 2019, , .		0
170	Optimum Energy Efficiency and Area Spectral Efficiency Tradeoff in User-Centric Ultra-Dense Networks. , 2019, , .		0
171	Title is missing!. , 2020, 15, e0238530.		0
172	Title is missing!. , 2020, 15, e0238530.		0
173	Title is missing!. , 2020, 15, e0238530.		0
174	Title is missing!. , 2020, 15, e0238530.		0
175	Title is missing!. , 2020, 15, e0238530.		0
176	Title is missing!. , 2020, 15, e0238530.		0