

Jingxian Wu

List of Publications by Year in descending order

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Version: 2024-02-01

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	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
2	Optimum Integration of Solar Energy With Battery Energy Storage Systems. IEEE Transactions on Engineering Management, 2022, 69, 697-707.	3.5	28
3	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
4	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
5	Anesthetics affect peripheral venous pressure waveforms and the cross-talk with arterial pressure. Journal of Clinical Monitoring and Computing, 2021, , 1.	1.6	3
6	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
7	Supervised Bayesian learning for breast cancer detection in terahertz imaging. Biomedical Signal Processing and Control, 2021, 70, 102949.	5.7	13
8	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
9	Unsupervised anomaly detection in peripheral venous pressure signals with hidden Markov models. Biomedical Signal Processing and Control, 2020, 62, 102126.	5.7	2
10	Tensor-computing-based Spectrum Usage Framework for 6G. , 2020, , .		2
11	Multi-user Multi-channel Computation Offloading and Resource Allocation for Mobile Edge Computing. , 2020, , .		25
12	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
13	Inversion modeling of japonica rice canopy chlorophyll content with UAV hyperspectral remote sensing. PLoS ONE, 2020, 15, e0238530.	2.5	13
14	Max-Min Optimal Beamforming for Cell-Free Massive MIMO. IEEE Communications Letters, 2020, 24, 2344-2348.	4.1	19
15	Low Latency Bearing Fault Detection of Direct-Drive Wind Turbines Using Stator Current. IEEE Access, 2020, 8, 44163-44174.	4.2	16
16	Unsupervised Bayesian learning for rice panicle segmentation with UAV images. Plant Methods, 2020, 16, 18.	4.3	14
17	Supervised Statistical Learning for Cancer Detection in Dehydrated Excised Tissue with Terahertz Imaging. , 2020, , .		1
18	Spatial Image Segmentation for Breast Cancer Detection in Terahertz Imaging. , 2020, , .		2

#	ARTICLE	IF	CITATIONS
19	Quickest change point detection with multiple postchange models. Sequential Analysis, 2020, 39, 543-562.	0.5	1
20	Title is missing!. , 2020, 15, e0238530.		0
21	Title is missing!. , 2020, 15, e0238530.		0
22	Title is missing!. , 2020, 15, e0238530.		0
23	Title is missing!. , 2020, 15, e0238530.		0
24	Title is missing!. , 2020, 15, e0238530.		0
25	Title is missing!. , 2020, 15, e0238530.		0
26	Optimum Multicast Scheduling in Delay-Constrained Content-Centric Wireless Networks. , 2019, , .		0
27	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
28	Lessons learned measuring peripheral venous pressure waveforms in an anesthetized pediatric population. Biomedical Physics and Engineering Express, 2019, 5, 035020.	1.2	3
29	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
30	Venous Physiology Predicts Dehydration in the Pediatric Population. Journal of Surgical Research, 2019, 238, 232-239.	1.6	6
31	Optimum Energy Efficiency and Area Spectral Efficiency Tradeoff in User-Centric Ultra-Dense Networks. , 2019, , .		0
32	Optimum Design of Battery-Assisted Photo-Voltaic Energy System for a Commercial Application. , 2019, , .		1
33	Cancer Classification of Freshly Excised Murine Tumors with Ordered Orthogonal Projection. , 2019, , .		2
34	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
35	Maximizing End-to-End Throughput of Interference-Limited Multihop Networks. IEEE Transactions on Vehicular Technology, 2018, 67, 5465-5469.	6.3	5
36	Optimum Spectral and Energy Efficiency Tradeoff in Two-User Gaussian Interference Channel. IEEE Wireless Communications Letters, 2018, 7, 468-471.	5.0	5

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37	Fundamental Tradeoff Between Doppler Diversity and Channel Estimation Errors in SIMO High Mobility Communication Systems. IEEE Access, 2018, 6, 21867-21878.	4.2	14
38	Venous Physiology Predicts Anesthetic Induced Hypotension in Infants. Journal of the American College of Surgeons, 2018, 227, e116.	0.5	2
39	BAYESIAN QUICKEST CHANGE POINT DETECTION WITH MULTIPLE CANDIDATES OF POST-CHANGE MODELS. , 2018, , .		4
40	On the Outage Probability of Interference-Limited Multi-Hop Linear Vehicular Ad-Hoc Network. IEEE Access, 2018, 6, 75395-75406.	4.2	7
41	BBoF v.s. RFoF in Fiber-Wireless Communication Systems. , 2018, , .		1
42	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
43	Explicit Inverse of the Covariance Matrix of Random Variables with Power-Law Covariance. , 2018, , .		1
44	Distributed Data Diffusion in Finite Time in Decentralized Networks. , 2018, , .		2
45	Low Latency Detection of Sparse False Data Injections in Smart Grids. IEEE Access, 2018, 6, 58564-58573.	4.2	11
46	PMU-Assisted Bad Data Detection in Power Systems. , 2018, , .		1
47	Minimizing Energy Consumptions in User-Centric Ultra-Dense Networks. , 2018, , .		1
48	Optimum Energy Efficiency and Age-of-Information Tradeoff in Multicast Scheduling. , 2018, , .		12
49	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
50	Delay and Energy Efficiency Tradeoff for Information Pushing System. IEEE Transactions on Green Communications and Networking, 2018, 2, 1027-1040.	5.5	9
51	Pulsed terahertz imaging of breast cancer in freshly excised murine tumors. Journal of Biomedical Optics, 2018, 23, 1.	2.6	51
52	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
53	Terahertz imaging of freshly excised breast cancer using mouse model. , 2017, , .		3
54	Optimal status updating to minimize age of information with an energy harvesting source. , 2017, , .		9

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55	Optimal transmission for energy harvesting nodes under battery size and usage constraints. , 2017, , .		11
56	Statistical signal processing for quantitative assessment of pulsed terahertz imaging of human breast tumors. , 2017, , .		5
57	Optimum PMU placement for power system state estimation. , 2017, , .		2
58	Sparsity-aided iterative receiver for large scale under-determined MIMO systems. , 2017, , .		0
59	Optimizing age-of-information and energy efficiency tradeoff for mobile pushing notifications. , 2017, , .		14
60	Optimum designs of wireless ad hoc networks with random multiple access. , 2017, , .		1
61	Graph-based multiple-line outage identification in power transmission systems. , 2017, , .		2
62	Maximum diversity order of SIMO high mobility systems with imperfect channel state information. , 2017, , .		1
63	Distributed estimation of a spatially correlated random field in decentralized sensor networks. , 2017, , .		1
64	Optimum Poisson Sensing with Energy Harvesting Power Sources. , 2016, , .		0
65	Optimal energy management for energy harvesting transmitters under battery usage constraint. , 2016, , .		2
66	On the Precoding for Multi-Cell Massive MIMO Systems with Distributed Antenna Subarrays. , 2016, , .		1
67	Connectivity Probability of Interference-Limited Linear Multi-Hop Ad-Hoc Networks. , 2016, , .		5
68	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
69	Optimal energy efficient level set estimation of spatially-temporally correlated random fields. , 2016, , .		2
70	On the end-to-end delay of interference-limited mobile multihop networks. , 2016, , .		2
71	Optimum Energy- and Spectral-Efficient Transmissions for Delay-Constrained Hybrid ARQ Systems. IEEE Transactions on Vehicular Technology, 2016, 65, 5212-5221.	6.3	23
72	A Survey on High Mobility Wireless Communications: Challenges, Opportunities and Solutions. IEEE Access, 2016, 4, 450-476.	4.2	233

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73	An Accurate Frame Error Rate Approximation of Coded Diversity Systems. <i>Wireless Personal Communications</i> , 2016, 86, 1377-1386.	2.7	4
74	Queue-Aware Energy-Efficient Joint Remote Radio Head Activation and Beamforming in Cloud Radio Access Networks. <i>IEEE Transactions on Wireless Communications</i> , 2016, 15, 3880-3894.	9.2	37
75	Minimizing End-to-End Delays in Linear Multihop Networks. <i>IEEE Transactions on Vehicular Technology</i> , 2016, 65, 6487-6496.	6.3	22
76	Optimum Level Set Estimation of a Time-Varying Random Field under a Power Constraint. , 2015, , .		1
77	Clock timing mismatch compensation in direct sampling receiver. , 2015, , .		0
78	Low-complexity soft-interference cancellation turbo equalisation for multi-input-multi-output systems with multilevel modulations. <i>IET Communications</i> , 2015, 9, 728-735.	2.2	4
79	Unifying energy harvesting, sensing, and communication for ultra-low power structure health monitoring. <i>Eurasip Journal on Wireless Communications and Networking</i> , 2015, 2015, .	2.4	2
80	Circular-shift division multiple access with oversampling receivers. , 2015, , .		0
81	On the maximum Doppler diversity of high mobility systems with imperfect channel state information. , 2015, , .		3
82	Online throughput maximization in an energy harvesting multiple access channel with fading. , 2015, , .		5
83	Optimal Scheduling of Collaborative Sensing in Energy Harvesting Sensor Networks. <i>IEEE Journal on Selected Areas in Communications</i> , 2015, 33, 512-523.	14.0	30
84	Spectral Efficient Doppler Diversity Transmissions in High Mobility Systems with Channel Estimation Errors. , 2015, , .		6
85	On the asymptotic equivalence between stochastic and deterministic energy sources in energy harvesting sensing systems. <i>Eurasip Journal on Wireless Communications and Networking</i> , 2015, 2015, .	2.4	3
86	MMSE-beamforming for multi-user multiple-input multiple-output systems with distributed antennas. , 2015, , .		2
87	High Mobility Wireless Communications With Doppler Diversity: Fundamental Performance Limits. <i>IEEE Transactions on Wireless Communications</i> , 2015, 14, 6981-6992.	9.2	44
88	Energy-Efficient Wireless Sensing for Level Set Estimations. <i>IEEE Access</i> , 2015, 3, 1480-1490.	4.2	4
89	Energy Efficient Optimum Sensing With Energy Harvesting Power Sources. <i>IEEE Access</i> , 2015, 3, 989-997.	4.2	7
90	Optimum sensing of a time-varying random event with energy harvesting power sources. , 2015, , .		4

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91	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
92	Adaptive sensing scheduling for energy harvesting sensors with finite battery. , 2015, , .		18
93	Optimum designs of high mobility wireless systems with channel estimation errors. IET Communications, 2015, 9, 1677-1682.	2.2	5
94	Turbo equalization for single-carrier underwater acoustic communications. , 2015, 53, 79-87.		60
95	Optimum designs for high mobility systems with channel estimation errors. , 2014, , .		3
96	Optimum number of hops of linear multi-hop networks with equidistant relays. , 2014, , .		3
97	On the Performance of Doubly-Selective Fading Estimations in High Mobility Systems. , 2014, , .		2
98	Optimal sampling of random processes under stochastic energy constraints. , 2014, , .		8
99	Level set estimation with dynamic sparse sensing. , 2014, , .		7
100	On the Uplink Capacity of High Speed Railway Communications with Massive MIMO Systems. , 2014, , .		11
101	EEG-based golf putt outcome prediction using support vector machine. , 2014, , .		0
102	An accurate frame error rate approximation of coded diversity systems with non-identical diversity branches. , 2014, , .		13
103	Low complexity detection algorithm for under-determined MIMO systems. , 2014, , .		4
104	Multi-carrier circular-shift division multiple access for multi-user wireless systems. , 2014, , .		1
105	The asymptotic equivalence between sensing systems with energy harvesting and conventional energy sources. , 2014, , .		4
106	Performance analysis and antenna selection of high speed railway communications systems with distributed antennas. , 2014, , .		3
107	Maximizing Spectral Efficiency for High Mobility Systems with Imperfect Channel State Information. IEEE Transactions on Wireless Communications, 2014, 13, 1462-1470.	9.2	48
108	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

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109	Maximum Doppler diversity transmissions for high mobility systems with imperfect channel state information. , 2014, , .		3
110	Simplified Parallel Interference Cancellation for Underdetermined MIMO Systems. IEEE Transactions on Vehicular Technology, 2014, 63, 3196-3208.	6.3	4
111	Queue-Aware Joint Remote Radio Head Activation and Beamforming for Green Cloud Radio Access Networks. , 2014, , .		0
112	Optimum Level Set Estimation of a Time-Varying Random Field under a Power Constraint. , 2014, , .		0
113	Optimum sampling in spatial-temporally correlated wireless sensor networks. Eurasip Journal on Wireless Communications and Networking, 2013, 2013, .	2.4	14
114	Optimum energy efficient communications for hybrid ARQ systems. , 2013, , .		4
115	Collision-Tolerant Media Access Control with On-Off Accumulative Transmission. IEEE Transactions on Wireless Communications, 2013, 12, 50-59.	9.2	14
116	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
117	Minimum Error Transmissions with Imperfect Channel Information in High Mobility Systems. , 2013, , .		5
118	Collision-Tolerant Media Access Control for Asynchronous Users over Frequency-Selective Channels. IEEE Transactions on Wireless Communications, 2013, 12, 5162-5171.	9.2	10
119	Maximizing spectral efficiency with imperfect channel information in high mobility systems. , 2013, , .		4
120	Graph modulations for massive MIMO systems. , 2013, , .		0
121	Low complexity soft-interference cancellation turbo equalization for MIMO systems with multilevel modulations. , 2013, , .		0
122	Energy and spectral efficient transmissions of coded ARQ systems. , 2013, , .		6
123	Distributed joint source-channel code for spatial-temporally correlated Markov sources. , 2013, , .		3
124	Frequency-domain on-off accumulative transmission over frequency-selective fading channels. , 2012, , .		2
125	Distributed joint source and channel code with correlated information sources. , 2012, , .		1
126	A modified fixed sphere decoding algorithm for under-determined MIMO systems. , 2012, , .		2

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127	Cross-layer collision-tolerant MAC with message passing detection. , 2012, , .		3
128	Optimum multi-hop transmission strategies for energy constrained wireless sensor networks. , 2012, , .		3
129	Cross-layer design of energy efficient coded ARQ systems. , 2012, , .		11
130	Cooperative spectrum sensing with Slepian-Wolf coded cooperations. , 2012, , .		1
131	Optimum Sensor Density in Distortion-Tolerant Wireless Sensor Networks. IEEE Transactions on Wireless Communications, 2012, 11, 2056-2064.	9.2	29
132	Cooperative Spectrum Sensing with a Progressive MAP Detection Algorithm. , 2011, , .		4
133	A New Ultra-Low Power Wireless Sensor Network with Integrated Energy Harvesting, Data Sensing, and Wireless Communication. , 2011, , .		10
134	Cross-Layer Design of Random On-Off Accumulative Transmission with Iterative Detections. , 2011, , .		2
135	Reliability-Based Turbo Detection. IEEE Transactions on Wireless Communications, 2011, 10, 2352-2361.	9.2	6
136	Enhanced MIMO LMMSE Turbo Equalization: Algorithm, Simulations, and Undersea Experimental Results. IEEE Transactions on Signal Processing, 2011, 59, 3813-3823.	5.3	49
137	Unified Spectral Efficiency Analysis of Cellular Systems with Channel-Aware Schedulers. IEEE Transactions on Communications, 2011, 59, 3463-3474.	7.8	52
138	Oversampled Orthogonal Frequency Division Multiplexing in Doubly Selective Fading Channels. IEEE Transactions on Communications, 2011, 59, 815-822.	7.8	23
139	Low Complexity Turbo Detection of Coded Under-Determined MIMO Systems. , 2011, , .		7
140	Optimum Sampling in a Spatial-Temporally Correlated Wireless Sensor Network. , 2011, , .		1
141	Random On-Off Accumulative Transmission for Asynchronous Wireless Sensor Networks. , 2010, , .		1
142	Optimal Sensor Density in a Distortion-Tolerant Linear Wireless Sensor Network. , 2010, , .		5
143	Enhanced MIMO LMMSE Turbo Equalization. , 2010, , .		1
144	Oversampled OFDM detector for MIMO underwater acoustic communications. , 2010, , .		5

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145	Integrated software-hardware design for ultra-low power infrastructure monitoring. , 2009, , .		1
146	Soft-Decode-and-Forward for Asynchronous Wireless Networks with Doubly-Selective Fading. , 2009, , .		2
147	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
148	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
149	Ultra-lowpower compressive wireless sensing for distributed wireless networks. , 2009, , .		3
150	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
151	Connectivity Analysis of Mobile Linear Networks with Delay Constraint. , 2009, , .		1
152	Optimal diversity combining based on linear estimation of rician fading channels. IEEE Transactions on Communications, 2008, 56, 1612-1615.	7.8	40
153	Low complexity soft-input soft-output block decision feedback equalization. IEEE Journal on Selected Areas in Communications, 2008, 26, 281-289.	14.0	37
154	Improved BDFE Using A Priori Information for Turbo Equalization. IEEE Transactions on Wireless Communications, 2008, 7, 233-240.	9.2	8
155	Connectivity Analysis of a Mobile Vehicular Ad Hoc Network with Dynamic Node Population. , 2008, , .		24
156	Oversampled Orthogonal Frequency Division Multiplexing in Doubly Selective Fading. , 2008, , .		3
157	Low Complexity Soft-Input Soft-Output Block Decision Feedback Equalization. , 2007, , .		10
158	Doppler Spread Estimation for Broadband Wireless OFDM Systems. , 2007, , .		2
159	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
160	Approximating a Sum of Random Variables with a Lognormal. IEEE Transactions on Wireless Communications, 2007, 6, 2690-2699.	9.2	290
161	Error Performance of Double Space Time Transmit Diversity System. IEEE Transactions on Wireless Communications, 2007, 6, 3191-3196.	9.2	19
162	Performance Analysis of Wireless Systems With Doubly Selective Rayleigh Fading. IEEE Transactions on Vehicular Technology, 2007, 56, 721-730.	6.3	19

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163	Approximating the Sum of Correlated Lognormal or, Lognormal-Rice Random Variables. , 2006, , .		33
164	Error Performance of Double Space Time Transmit Diversity System. , 2006, , .		0
165	Adaptive Transmit Diversity with Quadrant Phase Constraining Feedback. Wireless Personal Communications, 2006, 38, 443-454.	2.7	8
166	WLCp1-04: Exploring Maximum Doppler Diversity by Doppler Domain Multiplexing. IEEE Global Telecommunications Conference (GLOBECOM), 2006, , .	0.0	8
167	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
168	Multiuser channel estimation for CDMA systems over frequency-selective fading channels. IEEE Transactions on Wireless Communications, 2005, 4, 1724-1736.	9.2	10
169	Matched filter bound of wireless systems over frequency selective channels with receiver timing phase offset. , 2005, , .		1
170	Spectral efficiency analysis of cellular systems with channel-aware schedulers. , 2005, , .		3
171	Flexible lognormal sum approximation method. , 2005, , .		24
172	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
173	A Discrete-Time Model for Triply Selective MIMO Rayleigh Fading Channels. IEEE Transactions on Wireless Communications, 2004, 3, 1678-1688.	9.2	151
174	A discrete-time model for spatio-temporally correlated MIMO WSSUS multipath channels. , 0, , .		13
175	Time-varying and frequency-selective channel estimation with unequally spaced pilot symbols. , 0, , .		0
176	On the error performance of linearly modulated systems with doubly selective Rayleigh fading channels. , 0, , .		5