

# Jun Wu

## List of Publications by Year in descending order

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Version: 2024-02-01

124  
papers

2,147  
citations

293460

24  
h-index

286692

43  
g-index

124  
all docs

124  
docs citations

124  
times ranked

2645  
citing authors

#	ARTICLE	IF	CITATIONS
1	Insight into the heavy metal binding potential of dissolved organic matter in MSW leachate using EEM quenching combined with PARAFAC analysis. <i>Water Research</i> , 2011, 45, 1711-1719.	5.3	291
2	Charging Unplugged: Will Distributed Laser Charging for Mobile Wireless Power Transfer Work?. <i>IEEE Vehicular Technology Magazine</i> , 2016, 11, 36-45.	2.8	124
3	Distributed Laser Charging: A Wireless Power Transfer Approach. <i>IEEE Internet of Things Journal</i> , 2018, 5, 3853-3864.	5.5	123
4	Fluorescent characteristics and metal binding properties of individual molecular weight fractions in municipal solid waste leachate. <i>Environmental Pollution</i> , 2012, 162, 63-71.	3.7	93
5	PPIM: A Protein-Protein Interaction Database for Maize. <i>Plant Physiology</i> , 2016, 170, 618-626.	2.3	85
6	Intelligent Cooperative Spectrum Sensing via Hierarchical Dirichlet Process in Cognitive Radio Networks. <i>IEEE Journal on Selected Areas in Communications</i> , 2015, 33, 771-787.	9.7	64
7	Deep Fusion Feature Representation Learning With Hard Mining Center-Triplet Loss for Person Re-Identification. <i>IEEE Transactions on Multimedia</i> , 2020, 22, 3180-3195.	5.2	64
8	Low-Complexity Deep-Learning-Based DOA Estimation for Hybrid Massive MIMO Systems With Uniform Circular Arrays. <i>IEEE Wireless Communications Letters</i> , 2020, 9, 83-86.	3.2	62
9	Cr(VI) removal from aqueous solution by dried activated sludge biomass. <i>Journal of Hazardous Materials</i> , 2010, 176, 697-703.	6.5	59
10	Toward understanding the role of individual fluorescent components in DOM-metal binding. <i>Journal of Hazardous Materials</i> , 2012, 215-216, 294-301.	6.5	57
11	Historical Spectrum Sensing Data Mining for Cognitive Radio Enabled Vehicular Ad-Hoc Networks. <i>IEEE Transactions on Dependable and Secure Computing</i> , 2016, 13, 59-70.	3.7	56
12	Characterizing heavy metals in combined sewer overflows and its influence on microbial diversity. <i>Science of the Total Environment</i> , 2018, 625, 1272-1282.	3.9	51
13	Achievable Rate Analysis and Phase Shift Optimization on Intelligent Reflecting Surface With Hardware Impairments. <i>IEEE Transactions on Wireless Communications</i> , 2021, 20, 5514-5530.	6.1	45
14	Runoff simulation of two typical urban green land types with the Stormwater Management Model (SWMM): sensitivity analysis and calibration of runoff parameters. <i>Environmental Monitoring and Assessment</i> , 2019, 191, 343.	1.3	44
15	Compressive Coded Modulation for Seamless Rate Adaptation. <i>IEEE Transactions on Wireless Communications</i> , 2013, 12, 4892-4904.	6.1	42
16	Incremental Generative Occlusion Adversarial Suppression Network for Person ReID. <i>IEEE Transactions on Image Processing</i> , 2021, 30, 4212-4224.	6.0	42
17	Cross-Platform Resource Scheduling for Spark and MapReduce on YARN. <i>IEEE Transactions on Computers</i> , 2017, 66, 1341-1353.	2.4	37
18	Reinforcement Learning-Based Optimal Computing and Caching in Mobile Edge Network. <i>IEEE Journal on Selected Areas in Communications</i> , 2020, 38, 2343-2355.	9.7	35

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19	Effects of extracellular polymeric substances and microbial community on the anti-scourability of sewer sediment. <i>Science of the Total Environment</i> , 2019, 687, 494-504.	3.9	34
20	Progressive DARTS: Bridging the Optimization Gap for NAS in the Wild. <i>International Journal of Computer Vision</i> , 2021, 129, 638-655.	10.9	33
21	Contract-Based Small-Cell Caching for Data Disseminations in Ultra-Dense Cellular Networks. <i>IEEE Transactions on Mobile Computing</i> , 2019, 18, 1042-1053.	3.9	31
22	A Novel Forward-Link Multiplexed Scheme in Satellite-Based Internet of Things. <i>IEEE Internet of Things Journal</i> , 2018, 5, 1265-1274.	5.5	30
23	Fair Scheduling in Resonant Beam Charging for IoT Devices. <i>IEEE Internet of Things Journal</i> , 2019, 6, 641-653.	5.5	27
24	Analog Coded SoftCast: A Network Slice Design for Multimedia Broadcast/Multicast. <i>IEEE Transactions on Multimedia</i> , 2017, 19, 2293-2306.	5.2	25
25	Fast Decoding and Hardware Design for Binary-Input Compressive Sensing. <i>IEEE Journal on Emerging and Selected Topics in Circuits and Systems</i> , 2012, 2, 591-603.	2.7	24
26	DAC-Mobi: Data-Assisted Communications of Mobile Images with Cloud Computing Support. <i>IEEE Transactions on Multimedia</i> , 2016, 18, 893-904.	5.2	22
27	Efficient coding modulation and seamless rate adaptation for visible light communications. <i>IEEE Wireless Communications</i> , 2015, 22, 86-93.	6.6	21
28	Adaptive Distributed Laser Charging for Efficient Wireless Power Transfer. , 2017, , .		21
29	UAV Beam Alignment for Highly Mobile Millimeter Wave Communications. <i>IEEE Transactions on Vehicular Technology</i> , 2020, 69, 8577-8585.	3.9	21
30	Arithmetic-BICM for Seamless Rate Adaptation for Wireless Communication Systems. <i>IEEE Systems Journal</i> , 2016, 10, 228-239.	2.9	18
31	Optimal Resonant Beam Charging for Electronic Vehicles in Internet of Intelligent Vehicles. <i>IEEE Internet of Things Journal</i> , 2019, 6, 6-14.	5.5	18
32	TDMA in Adaptive Resonant Beam Charging for IoT Devices. <i>IEEE Internet of Things Journal</i> , 2019, 6, 867-877.	5.5	17
33	Adaptive Resonant Beam Charging for Intelligent Wireless Power Transfer. <i>IEEE Internet of Things Journal</i> , 2019, 6, 1160-1172.	5.5	17
34	Resource Allocation for Uncoded Multi-user Video Transmission over Wireless Networks. <i>Mobile Networks and Applications</i> , 2016, 21, 950-961.	2.2	16
35	QoS-Aware User Grouping Strategy for Downlink Multi-Cell NOMA Systems. <i>IEEE Transactions on Wireless Communications</i> , 2021, 20, 7871-7887.	6.1	15
36	Knowledge-Enhanced Mobile Video Broadcasting Framework With Cloud Support. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2017, 27, 6-18.	5.6	14

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37	Different erosion characteristics of sediment deposits in combined and storm sewers. <i>Water Science and Technology</i> , 2017, 75, 1922-1931.	1.2	13
38	Rate-Adaptive Feedback with Bayesian Compressive Sensing in Multiuser MIMO Beamforming Systems. <i>IEEE Transactions on Wireless Communications</i> , 2016, , 1-1.	6.1	12
39	Secure Transmission in Multi-Cell Multi-User Massive MIMO Systems With an Active Eavesdropper. <i>IEEE Wireless Communications Letters</i> , 2019, 8, 85-88.	3.2	12
40	Random Caching Optimization in Large-Scale Cache-Enabled Internet of Things Networks. <i>IEEE Transactions on Network Science and Engineering</i> , 2020, 7, 385-397.	4.1	12
41	An Optimal Resource Allocation for Superposition Coding-Based Hybrid Digital-Analog System. <i>IEEE Internet of Things Journal</i> , 2017, 4, 945-956.	5.5	11
42	Performance Analysis and Beamforming Designs of MIMO AF Relaying With Hardware Impairments. <i>IEEE Transactions on Vehicular Technology</i> , 2018, 67, 6229-6243.	3.9	11
43	Cost-Distortion Optimization and Resource Control in Pseudo-Analog Visual Communications. <i>IEEE Transactions on Multimedia</i> , 2018, 20, 3097-3110.	5.2	11
44	Biosorption of Cr(III) from aqueous solution by freeze-dried activated sludge: Equilibrium, kinetic and thermodynamic studies. <i>Frontiers of Environmental Science and Engineering in China</i> , 2010, 4, 286-294.	0.8	10
45	How loud to talk and how hard to listen-before-talk in unlicensed LTE. , 2015, , .		10
46	CSTEA: a webserver for the Cell State Transition Expression Atlas. <i>Nucleic Acids Research</i> , 2017, 45, W103-W108.	6.5	10
47	Influences of rainfall variables and antecedent discharge on urban effluent concentrations and loads in wet weather. <i>Water Science and Technology</i> , 2017, 75, 1584-1598.	1.2	10
48	Degrees of Freedom of the Circular Multirelay MIMO Interference Channel in IoT Networks. <i>IEEE Internet of Things Journal</i> , 2018, 5, 1957-1966.	5.5	10
49	Improved KMV-Cast with BM3D Denoising. <i>Mobile Networks and Applications</i> , 2018, 23, 100-107.	2.2	10
50	Improved Instance Discrimination and Feature Compactness for End-to-End Person Search. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2022, 32, 2079-2090.	5.6	10
51	Cache Placement Optimization in Mobile Edge Computing Networks With Unaware Environment-An Extended Multi-Armed Bandit Approach. <i>IEEE Transactions on Wireless Communications</i> , 2021, 20, 8119-8133.	6.1	10
52	Long-term effect of water diversion and CSOs on the remediation of heavy metals and microbial community in river sediments. <i>Water Science and Technology</i> , 2019, 79, 2395-2406.	1.2	9
53	SWIFT: A Computationally-Intensive DSP Architecture for Communication Applications. <i>Mobile Networks and Applications</i> , 2016, 21, 974-982.	2.2	8
54	A Collaborative Scheduling-Based Parallel Solution for HEVC Encoding on Multicore Platforms. <i>IEEE Transactions on Multimedia</i> , 2018, 20, 2935-2948.	5.2	8

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55	Identification of Functional Gene Modules Associated With STAT-Mediated Antiviral Responses to White Spot Syndrome Virus in Shrimp. <i>Frontiers in Physiology</i> , 2019, 10, 212.	1.3	8
56	Cyclic CNN: Image Classification With Multiscale and Multilocation Contexts. <i>IEEE Internet of Things Journal</i> , 2021, 8, 7466-7475.	5.5	8
57	Video Multicast: Integrating Scalability of Soft Video Delivery Systems Into NOMA. <i>IEEE Wireless Communications Letters</i> , 2019, 8, 1722-1726.	3.2	7
58	Raptor Codes With Descending Order Degrees for AWGN Channels. <i>IEEE Communications Letters</i> , 2020, 24, 29-33.	2.5	7
59	Optimal Beam Pattern Design for Hybrid Beamforming in Millimeter Wave Communications. <i>IEEE Transactions on Vehicular Technology</i> , 2020, 69, 7987-7991.	3.9	7
60	Location-aware Beamforming Design for Reconfigurable Intelligent Surface Aided Communication System. , 2021, , .		7
61	Context-Aware Feature Learning for Noise Robust Person Search. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2022, 32, 7047-7060.	5.6	7
62	Design and implementation of DMA transfers in WISHBONE interface. , 2015, , .		6
63	A Multi-Grained Parallel Solution for HEVC Encoding on Heterogeneous Platforms. <i>IEEE Transactions on Multimedia</i> , 2019, 21, 2997-3009.	5.2	6
64	Compressive Spinal Codes. <i>IEEE Transactions on Vehicular Technology</i> , 2019, 68, 11944-11954.	3.9	6
65	Deep-Learning-Based Initial Access Method for Millimeter-Wave MIMO Systems. <i>IEEE Wireless Communications Letters</i> , 2022, 11, 1067-1071.	3.2	6
66	Mercury: A Simple Transport Layer Scheduler to Accelerate Distributed DNN Training. , 2022, , .		6
67	Cooperative Spectrum Sensing With Data Mining of Multiple Users's™ Historical Sensing Data. <i>IEEE Access</i> , 2016, 4, 7391-7401.	2.6	5
68	A Hybrid Digital Analog Scheme for MIMO Multimedia Broadcasting. <i>IEEE Wireless Communications Letters</i> , 2017, 6, 322-325.	3.2	5
69	A High-Performance Systolic Array Accelerator Dedicated for CNN. , 2019, , .		5
70	LTE physical layer implementation based on GPP multi-core parallel processing and USRP platform. , 2014, , .		4
71	Optimal Antenna Deployment for Multiuser MIMO Systems Based on Random Matrix Theory. <i>IEEE Transactions on Vehicular Technology</i> , 2016, 65, 8155-8162.	3.9	4
72	Effect of passive ventilation on the performance of unplanted sludge treatment wetlands: heavy metal removal and microbial community variation. <i>Environmental Science and Pollution Research</i> , 2020, 27, 31665-31676.	2.7	4

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73	Quantitative source apportionment of dissolved organic matters in wet weather overflows of storm drainage systems based on degradation potential index and end member mixing model. <i>Science of the Total Environment</i> , 2021, 792, 148493.	3.9	4
74	Intelli-AR Preloading: A Learning Approach to Proactive Hologram Transmissions in Mobile AR. <i>IEEE Internet of Things Journal</i> , 2022, 9, 17714-17727.	5.5	4
75	Nondestructive characterization of the contaminated biodegradable fraction of municipal solid waste using synchrotron radiation-induced micro-X-ray fluorescence. <i>Bioresource Technology</i> , 2013, 132, 239-243.	4.8	3
76	Design and Implementation of Seamless Rate Adaptive Decoder. , 2014, , .		3
77	A family of chaotic pure analog coding schemes based on baker's map function. <i>Eurasip Journal on Advances in Signal Processing</i> , 2015, 2015, .	1.0	3
78	Relay-Assisted Joint Coded Modulation. <i>IEEE Wireless Communications Letters</i> , 2016, 5, 356-359.	3.2	3
79	SOUP: Advanced SDR platform for 5G communication. , 2017, , .		3
80	HARQ-Chaotic: Analog Chaotic Code Applied in HARQ Scheme of Wireless Communication System. <i>Wireless Communications and Mobile Computing</i> , 2019, 2019, 1-13.	0.8	3
81	Efficient Soft Video MIMO Design to Combine Diversity and Spatial Multiplexing Gain. <i>IEEE Internet of Things Journal</i> , 2019, 6, 5461-5472.	5.5	3
82	QoS-Driven Resource Optimization for Intelligent Fog Radio Access Network: A Dynamic Power Allocation Perspective. <i>IEEE Transactions on Cognitive Communications and Networking</i> , 2022, 8, 394-407.	4.9	3
83	An Effective Generative Model Based Channel Estimation Method With Reduced Overhead. <i>IEEE Transactions on Vehicular Technology</i> , 2022, 71, 8414-8423.	3.9	3
84	Minimizing the Energy Cost of Servers in Data Center Networks. , 2012, , .		2
85	Architecture and implementation of a vector MAC unit for complex number. , 2014, , .		2
86	Predicting zero coefficients for High Efficiency Video Coding. , 2014, , .		2
87	Uncoded video transmission in multi-users networks. , 2015, , .		2
88	Correlative Filters for Convolutional Neural Networks. , 2015, , .		2
89	A VLIW DSP for communication applications. , 2015, , .		2
90	Transmit power control and clear channel assessment in LAA networks. , 2015, , .		2

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91	Scheduling Algorithm Design for Virtualized Hardware Accelerator in C-RAN. , 2016, , .		2
92	Pseudo analog video transmission based on LTE physical layer. , 2016, , .		2
93	Performance Analysis of KMV-Cast with Imperfect Prior Knowledge. , 2016, , .		2
94	Pseudo-analog wireless stereo video transmission in hardware acceleration. , 2017, , .		2
95	A Reconfigurable SoC for SoftCast Wireless Video Transmission. , 2018, , .		2
96	A Low-Latency Reliable Transport Solution for Network-Connected UAV. , 2018, , .		2
97	Distributed random projection code scheme for decode and forward relay channel. , 2012, , .		1
98	Queuing theory based spectrum allocation in cognitive radio networks. , 2014, , .		1
99	Research on multimedia transmission over cognitive radio networks. , 2015, , .		1
100	Design and implementation of a memory architecture in dsp for wireless communication. , 2015, , .		1
101	Degrees of Freedom of a MIMO Multipair Two-Way Relay Channel With Delayed Channel State Information. IEEE Signal Processing Letters, 2018, 25, 243-247.	2.1	1
102	A Heterogeneous SoC for Soft Cast Wireless Video Transmission. , 2018, , .		1
103	A Hybrid Digital-Analog Chaotic Code. IEEE Wireless Communications Letters, 2018, 7, 930-933.	3.2	1
104	A Low-Latency Reliable Transport Solution for Network-Connected UAV. , 2018, , .		1
105	An Optimal Resource Allocation for Hybrid Digital-Analog With Combined Multiplexing. IEEE Internet of Things Journal, 2019, 6, 1125-1135.	5.5	1
106	A Deep Image Coding Scheme With Generative Network to Learn From Correlated Images. IEEE Transactions on Multimedia, 2021, 23, 2235-2244.	5.2	1
107	Distributed Coding Modulation Adaptation Scheme for Relay Channel. Communications and Network, 2013, 05, 36-41.	0.6	1
108	Quasi-cyclic Random Projection Code and Hardware Implementation. Communications and Network, 2013, 05, 86-92.	0.6	1

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109	Design and Implementation of DSP Cache. , 2021, , .		1
110	An alternative cross-fusiform search algorithm for fast block matching motion. , 2013, , .		0
111	Design and Implementation for GPU-based seamless rate adaptive decoder. , 2014, , .		0
112	A compilation method for zero overhead loop in DSPs with VLIW. , 2017, , .		0
113	Optimal DoF Region of MIMO Y Channel with Hybrid Data Exchanges. , 2018, , .		0
114	The Design of Soft Base Station Based on Docker. , 2018, , .		0
115	Indoor Localization Design and Implementation Based on Software Defined Radio. , 2018, , .		0
116	COQRC: A Rateless Video Transmission Solution. , 2018, , .		0
117	Hardware Implementation of a Pseudo-Analog Wireless Video Transmission System. , 2019, , .		0
118	Editorial: Multimedia and Social Data Processing in Vehicular Networks. Mobile Networks and Applications, 2020, 25, 620-622.	2.2	0
119	On The Adversarial Robustness of Principal Component Analysis. , 2021, , .		0
120	Joint Design of Beamforming and Edge Caching in Fog Radio Access Networks. Security and Communication Networks, 2021, 2021, 1-8.	1.0	0
121	Improving Capacity and Delay in Directional Hybrid Wireless Networks with Range Extension. International Journal of Distributed Sensor Networks, 2015, 11, 842871.	1.3	0
122	A Real-time Virtual Reality Adaptive Streaming System. , 2020, , .		0
123	A Blockchain Based Automatic Access Scheme Design and Implement for Small Cell Base Station. , 2021, , .		0
124	DSP Assembler Auto-Generation Technique and ToolChain Integration. , 2021, , .		0