

# Yongpeng Wu

## List of Publications by Year in descending order

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101  
papers

4,510  
citations

136950

32  
h-index

102487

66  
g-index

101  
all docs

101  
docs citations

101  
times ranked

4122  
citing authors

#	ARTICLE	IF	CITATIONS
1	Compressive Sensing-Based Joint Activity and Data Detection for Grant-Free Massive IoT Access. IEEE Transactions on Wireless Communications, 2022, 21, 1851-1869.	9.2	27
2	QoE Driven VR 360° Video Massive MIMO Transmission. IEEE Transactions on Wireless Communications, 2022, 21, 18-33.	9.2	16
3	Joint Optimization for RIS-Assisted Wireless Communications: From Physical and Electromagnetic Perspectives. IEEE Transactions on Communications, 2022, 70, 606-620.	7.8	17
4	DQN-Based Predictive Spectrum Handoff via Hybrid Priority Queuing Model. IEEE Communications Letters, 2022, 26, 701-705.	4.1	0
5	Joint Precoder and Beamformer Design for Secure Relay Networks With Finite-Alphabet Inputs and Statistical CSI of Eve. IEEE Transactions on Wireless Communications, 2022, 21, 5814-5827.	9.2	0
6	Joint Device Detection, Channel Estimation, and Data Decoding With Collision Resolution for MIMO Massive Unsourced Random Access. IEEE Journal on Selected Areas in Communications, 2022, 40, 1535-1555.	14.0	16
7	Massive Unsourced Random Access: Exploiting Angular Domain Sparsity. IEEE Transactions on Communications, 2022, 70, 2480-2498.	7.8	12
8	Error exponent for concatenated codes in DNA data storage under substitution errors. Science China Information Sciences, 2022, 65, 1.	4.3	1
9	A Preamble-Based MAC Mechanism in Ad-Hoc Network. Journal of Communications and Information Networks, 2022, 7, 60-71.	5.2	1
10	Incentive Mechanism Design for Two-Layer Wireless Edge Caching Networks Using Contract Theory. IEEE Transactions on Services Computing, 2021, 14, 1426-1438.	4.6	9
11	Transmit Covariance and Waveform Optimization for Non-Orthogonal CP-FBMA System. IEEE Transactions on Communications, 2021, 69, 261-275.	7.8	3
12	Massive Access in Cell-Free Massive MIMO-Based Internet of Things: Cloud Computing and Edge Computing Paradigms. IEEE Journal on Selected Areas in Communications, 2021, 39, 756-772.	14.0	81
13	Enhanced Secrecy Rate Maximization for Directional Modulation Networks via IRS. IEEE Transactions on Communications, 2021, 69, 8388-8401.	7.8	46
14	Security Transmission in MIMO Ubiquitous Power Internet of Things Systems. IEEE Access, 2021, 9, 121006-121014.	4.2	3
15	Enhanced Secure Wireless Information and Power Transfer via Intelligent Reflecting Surface. IEEE Communications Letters, 2021, 25, 1084-1088.	4.1	51
16	Uplink transmission design for crowded correlated cell-free massive MIMO-OFDM systems. Science China Information Sciences, 2021, 64, 1.	4.3	8
17	LEO Satellite Constellations for 5G and Beyond: How Will They Reshape Vertical Domains?. IEEE Communications Magazine, 2021, 59, 30-36.	6.1	63
18	Unsourced Random Access with a Massive MIMO Receiver: Exploiting Angular Domain Sparsity. , 2021, , .		1

#	ARTICLE	IF	CITATIONS
19	An Anti-Eavesdropping Strategy for Precoding-Aided Spatial Modulation With Rough CSI of Eve. IEEE Transactions on Vehicular Technology, 2020, 69, 2343-2347.	6.3	4
20	Subcarrier Assignment Schemes Based on Q-Learning in Wideband Cognitive Radio Networks. IEEE Transactions on Vehicular Technology, 2020, 69, 1168-1172.	6.3	20
21	Optimal Detection of UAV's Transmission With Beam Sweeping in Covert Wireless Networks. IEEE Transactions on Vehicular Technology, 2020, 69, 1080-1085.	6.3	34
22	Low-Complexity Leakage-Based Secure Precise Wireless Transmission With Hybrid Beamforming. IEEE Wireless Communications Letters, 2020, 9, 1687-1691.	5.0	3
23	Joint User Identification and Channel Estimation Over Rician Fading Channels. IEEE Transactions on Vehicular Technology, 2020, 69, 6803-6807.	6.3	11
24	Secure Hybrid A/D Beamforming for Hardware-Efficient Large-Scale Multiple-Antenna SWIPT Systems. IEEE Transactions on Communications, 2020, 68, 6141-6156.	7.8	9
25	Thermomechanical Reliability Enhancement of High-power MEMS with Movable Structure Based on Implanted Skin Hairs. , 2020, , .		1
26	Compressive Massive Access for Internet of Things: Cloud Computing or Fog Computing?. , 2020, , .		2
27	Large Intelligent Surface Aided Physical Layer Security Transmission. IEEE Transactions on Signal Processing, 2020, 68, 5276-5291.	5.3	22
28	Performance Analysis of Hybrid Satellite-Terrestrial Cooperative Networks With Relay Selection. IEEE Transactions on Vehicular Technology, 2020, 69, 9053-9067.	6.3	67
29	Compressive Sensing-Based Adaptive Active User Detection and Channel Estimation: Massive Access Meets Massive MIMO. IEEE Transactions on Signal Processing, 2020, 68, 764-779.	5.3	205
30	Massive Access for Future Wireless Communication Systems. IEEE Wireless Communications, 2020, 27, 148-156.	9.0	114
31	SPARC-LDPC Coding for MIMO Massive Unsourced Random Access. , 2020, , .		10
32	Polar Coding and Sparse Spreading for Massive Unsourced Random Access. , 2020, , .		8
33	Performance Evaluation and Analysis of Millimeter Wave Communication System. IEEE Systems Journal, 2019, 13, 159-170.	4.6	16
34	2x-Oversampled Receiver Design for CP-FBMA Based Air Interface. , 2019, , .		0
35	Multi-User Wideband Sparse Channel Estimation for Aerial BS with Hybrid Full-Dimensional MIMO. , 2019, , .		1
36	A Fast Beam Searching Scheme in mmWave Communications for High-Speed Trains. , 2019, , .		19

#	ARTICLE	IF	CITATIONS
37	Micro Heat Sink Structure with High Thermal Conductive Composite via Micromachining Process. , 2019, , .		1
38	Fabrication of High Aspect-Ratio Microstructure on Improved Titanium Substrate with Excellent Adhesive Strength and SU-8 Photoresist. , 2019, , .		0
39	On the Fundamental Limits of MIMO Massive Multiple Access Channels. , 2019, , .		7
40	Preparation and Characterization of High Thermal Conductivity and Low CTE Polyimide Composite Reinforced with Diamond Nanoparticles/SiC Whiskers for 3D IC Interposer RDL Dielectric. Applied Sciences (Switzerland), 2019, 9, 1962.	2.5	9
41	Channel-Statistics-Based Hybrid Precoding for Millimeter-Wave MIMO Systems With Dynamic Subarrays. IEEE Transactions on Communications, 2019, 67, 3991-4003.	7.8	34
42	Data-Aided Secure Massive MIMO Transmission Under the Pilot Contamination Attack. IEEE Transactions on Communications, 2019, 67, 4765-4781.	7.8	20
43	Hybrid Precoder Design for Cache-Enabled Millimeter-Wave Radio Access Networks. IEEE Transactions on Wireless Communications, 2019, 18, 1707-1722.	9.2	18
44	Joint Antenna Array Mode Selection and User Assignment for Full-Duplex MU-MISO Systems. IEEE Transactions on Wireless Communications, 2019, 18, 2946-2963.	9.2	22
45	An Intelligent Solution to In-Home Power Line Communication. , 2019, , .		0
46	Random Pilot and Data Access for Massive MIMO Spatially Correlated Rayleigh Fading Channels. , 2019, , .		4
47	Physical Layer Security of Digital Front End Based Internet of Things Communication in Power Systems. , 2019, , .		2
48	An Algorithm for Transmitting VR Video Based on Adaptive Modulation. , 2019, , .		3
49	Resource Allocation for a Wireless Powered Integrated Radar and Communication System. IEEE Wireless Communications Letters, 2019, 8, 253-256.	5.0	38
50	Message-Passing Receiver Design for Joint Channel Estimation and Data Decoding in Uplink Grant-Free SCMA Systems. IEEE Transactions on Wireless Communications, 2019, 18, 167-181.	9.2	46
51	Secure SWIPT for Directional Modulation-Aided AF Relaying Networks. IEEE Journal on Selected Areas in Communications, 2019, 37, 253-268.	14.0	17
52	A Survey of Positioning Systems Using Visible LED Lights. IEEE Communications Surveys and Tutorials, 2018, 20, 1963-1988.	39.4	397
53	A Survey of Physical Layer Security Techniques for 5G Wireless Networks and Challenges Ahead. IEEE Journal on Selected Areas in Communications, 2018, 36, 679-695.	14.0	550
54	Secure Communication for MISO Secrecy Channel With Multiple Multiantenna Eavesdroppers Having Finite Alphabet Inputs. IEEE Access, 2018, 6, 7402-7411.	4.2	4

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55	Energy-Efficient NOMA Enabled Heterogeneous Cloud Radio Access Networks. IEEE Network, 2018, 32, 152-160.	6.9	103
56	Secure Communication for Amplify-and-Forward Relay Networks With Finite Alphabet Input. IEEE Transactions on Information Forensics and Security, 2018, 13, 2269-2278.	6.9	8
57	Secure Transmission for MISOME Wiretap Channels With Finite Alphabet Inputs. IEEE Wireless Communications Letters, 2018, 7, 570-573.	5.0	6
58	Massive MIMO for Distributed Detection With Transceiver Impairments. IEEE Transactions on Vehicular Technology, 2018, 67, 604-617.	6.3	25
59	MIMO-OFDM Scheme design for Medium Voltage Underground Cables based Power Line Communication. , 2018, , .		2
60	Guest Editorial Physical Layer Security for 5G Wireless Networks, Part II. IEEE Journal on Selected Areas in Communications, 2018, 36, 1363-1366.	14.0	1
61	Analysis of Outage Probabilities for Cooperative NOMA Users with Imperfect CSI. , 2018, , .		17
62	Wireless Channel Models for Maritime Communications. IEEE Access, 2018, 6, 68070-68088.	4.2	134
63	Data-Aided Secure Massive MIMO Transmission with Active Eavesdropping. , 2018, , .		6
64	Toward 5G Wireless Interface Technology: Enabling Nonorthogonal Multiple Access in the Sparse Code Domain. IEEE Vehicular Technology Magazine, 2018, 13, 18-27.	3.4	20
65	Hybrid Precoding in mmWave MIMO Broadcast Channels with Dynamic Subarrays and Finite-Alphabet Inputs. , 2018, , .		3
66	A Survey on MIMO Transmission With Finite Input Signals: Technical Challenges, Advances, and Future Trends. Proceedings of the IEEE, 2018, 106, 1779-1833.	21.3	42
67	Pilot Spoofing Attack by Multiple Eavesdroppers. IEEE Transactions on Wireless Communications, 2018, 17, 6433-6447.	9.2	30
68	Physical-Layer Security for Indoor Visible Light Communications: Secrecy Capacity Analysis. IEEE Transactions on Communications, 2018, 66, 6423-6436.	7.8	86
69	Guest Editorial Physical Layer Security for 5G Wireless Networks, Part I. IEEE Journal on Selected Areas in Communications, 2018, 36, 675-678.	14.0	1
70	Computation Rate Maximization in UAV-Enabled Wireless-Powered Mobile-Edge Computing Systems. IEEE Journal on Selected Areas in Communications, 2018, 36, 1927-1941.	14.0	582
71	Over-Sampling Codebook-Based Hybrid Minimum Sum-Mean-Square-Error Precoding for Millimeter-Wave 3D-MIMO. IEEE Wireless Communications Letters, 2018, 7, 938-941.	5.0	37
72	Coverage Analysis for Millimeter Wave Cellular Networks With Imperfect Beam Alignment. IEEE Transactions on Vehicular Technology, 2018, 67, 8302-8314.	6.3	55

#	ARTICLE	IF	CITATIONS
73	Two High-Performance Schemes of Transmit Antenna Selection for Secure Spatial Modulation. IEEE Transactions on Vehicular Technology, 2018, 67, 8969-8973.	6.3	60
74	Cache Placement in Two-Tier HetNets With Limited Storage Capacity: Cache or Buffer?. IEEE Transactions on Communications, 2018, 66, 5415-5429.	7.8	37
75	Beam Domain Secure Transmission for Massive MIMO Communications. IEEE Transactions on Vehicular Technology, 2018, 67, 7113-7127.	6.3	27
76	Cooperative Jamming for Secure Transmission with Finite Alphabet Input under Individual Power Constraint. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2018, E101.A, 961-966.	0.3	0
77	Low-complexity precoding for MIMO channels with finite alphabet input. Electronics Letters, 2017, 53, 160-162.	1.0	2
78	Low-Complexity MIMO Precoding for Finite-Alphabet Signals. IEEE Transactions on Wireless Communications, 2017, 16, 4571-4584.	9.2	46
79	Channel Estimation for Multicell Multiuser Massive MIMO Uplink Over Rician Fading Channels. IEEE Transactions on Vehicular Technology, 2017, 66, 8872-8882.	6.3	22
80	Secure Transmission with Large Numbers of Antennas and Finite Alphabet Inputs. IEEE Transactions on Communications, 2017, , 1-1.	7.8	53
81	Secure Transmission With Aid of a Helper for MIMOME Network Having Finite Alphabet Inputs. IEEE Access, 2017, 5, 3698-3708.	4.2	11
82	A New Framework of Filter Bank Multi-Carrier: Getting Rid of Subband Orthogonality. IEEE Transactions on Communications, 2017, 65, 3922-3932.	7.8	15
83	Outage Performance for Cooperative NOMA Transmission with an AF Relay. IEEE Communications Letters, 2017, 21, 2428-2431.	4.1	130
84	ACK feedback based UE-to-CTU mapping rule for SCMA uplink grant-free transmission. , 2017, , .		11
85	Improvement of BER performance by tilting receiver plane for indoor visible light communications with input-dependent noise. , 2017, , .		30
86	2D Unitary ESPRIT Based Super-Resolution Channel Estimation for Millimeter-Wave Massive MIMO With Hybrid Precoding. IEEE Access, 2017, 5, 24747-24757.	4.2	61
87	Joint Optimization of Analog Beam and User Scheduling for Millimeter Wave Communications. IEEE Communications Letters, 2017, 21, 2638-2641.	4.1	33
88	Large-Scale MIMO Secure Transmission with Finite Alphabet Inputs. , 2017, , .		0
89	Constellation Optimization for Spatial Modulation Based Indoor Optical Wireless Communications. , 2017, , .		5
90	Frequency-Domain Inter-Group Interference Coordination for V2V Communications. IEEE Signal Processing Letters, 2017, , 1-1.	3.6	3

#	ARTICLE	IF	CITATIONS
91	System performance evaluation for millimeter wave wireless communication. , 2017, , .		1
92	Energy-Efficient Transceiver Design for Hybrid Sub-Array Architecture MIMO Systems. IEEE Access, 2016, 4, 9895-9905.	4.2	79
93	Low-complexity MIMO precoding with discrete signals and statistical CSI. , 2016, , .		34
94	Secure Massive MIMO Transmission With an Active Eavesdropper. IEEE Transactions on Information Theory, 2016, 62, 3880-3900.	2.4	264
95	Linear Precoding for the MIMO Multiple Access Channel With Finite Alphabet Inputs and Statistical CSI. IEEE Transactions on Wireless Communications, 2015, 14, 983-997.	9.2	68
96	Performance limits of massive MIMO systems based on Bayes-optimal inference. , 2015, , .		6
97	Transmit Designs for the MIMO Broadcast Channel With Statistical CSI. IEEE Transactions on Signal Processing, 2014, 62, 4451-4466.	5.3	19
98	Linear Precoder Design for MIMO Interference Channels with Finite-Alphabet Signaling. IEEE Transactions on Communications, 2013, 61, 3766-3780.	7.8	47
99	MIMO Multichannel Beamforming in Rayleigh-Product Channels with Arbitrary-Power Co-Channel Interference and Noise. IEEE Transactions on Wireless Communications, 2012, 11, 3677-3691.	9.2	6
100	Linear Precoding for MIMO Broadcast Channels With Finite-Alphabet Constraints. IEEE Transactions on Wireless Communications, 2012, , 1-15.	9.2	47
101	Linear Precoding for Finite-Alphabet Signaling Over MIMOME Wiretap Channels. IEEE Transactions on Vehicular Technology, 2012, 61, 2599-2612.	6.3	162