

# Jintao Wang

## List of Publications by Year in descending order

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154  
papers

2,174  
citations

279798

23  
h-index

265206

42  
g-index

154  
all docs

154  
docs citations

154  
times ranked

1737  
citing authors

#	ARTICLE	IF	CITATIONS
1	Generalised Spatial Modulation System with Multiple Active Transmit Antennas and Low Complexity Detection Scheme. IEEE Transactions on Wireless Communications, 2012, 11, 1605-1615.	9.2	417
2	Spectrum- and Energy-Efficient OFDM Based on Simultaneous Multi-Channel Reconstruction. IEEE Transactions on Signal Processing, 2013, 61, 6047-6059.	5.3	106
3	Multi-resolution CSI Feedback with Deep Learning in Massive MIMO System. , 2020, , .		97
4	Minimizing Age of Information With Power Constraints: Multi-User Opportunistic Scheduling in Multi-State Time-Varying Channels. IEEE Journal on Selected Areas in Communications, 2020, 38, 854-868.	14.0	97
5	Signal Vector Based Detection Scheme for Spatial Modulation. IEEE Communications Letters, 2012, 16, 19-21.	4.1	77
6	Deep Learning-Based Channel Estimation Algorithm Over Time Selective Fading Channels. IEEE Transactions on Cognitive Communications and Networking, 2020, 6, 125-134.	7.9	74
7	Outage Analysis for Downlink NOMA With Statistical Channel State Information. IEEE Wireless Communications Letters, 2018, 7, 142-145.	5.0	72
8	Joint Transceiver Optimization for Wireless Communication PHY Using Neural Network. IEEE Journal on Selected Areas in Communications, 2019, 37, 1364-1373.	14.0	69
9	Mutual Information Analysis on Spatial Modulation Multiple Antenna System. IEEE Transactions on Communications, 2015, 63, 826-843.	7.8	57
10	Spatial Modulation for More Spatial Multiplexing: RF-Chain-Limited Generalized Spatial Modulation Aided MM-Wave MIMO With Hybrid Precoding. IEEE Transactions on Communications, 2018, 66, 986-998.	7.8	53
11	Spectral Efficiency Analysis for Downlink NOMA Aided Spatial Modulation With Finite Alphabet Inputs. IEEE Transactions on Vehicular Technology, 2017, 66, 10562-10566.	6.3	49
12	On the Multi-User Multi-Cell Massive Spatial Modulation Uplink: How Many Antennas for Each User?. IEEE Transactions on Wireless Communications, 2017, 16, 1437-1451.	9.2	40
13	Frequency-Domain Turbo Equalization With Iterative Channel Estimation for MIMO Underwater Acoustic Communications. IEEE Journal of Oceanic Engineering, 2017, 42, 711-721.	3.8	38
14	Mutual Information and Error Probability Analysis on Generalized Spatial Modulation System. IEEE Transactions on Communications, 2017, 65, 1044-1060.	7.8	37
15	On the Achievable Spectral Efficiency of Spatial Modulation Aided Downlink Non-Orthogonal Multiple Access. IEEE Communications Letters, 2017, 21, 1937-1940.	4.1	35
16	Transmit Diversity for TDS-OFDM Broadcasting System Over Doubly Selective Fading Channels. IEEE Transactions on Broadcasting, 2011, 57, 135-142.	3.2	34
17	On Generalized Spatial Modulation Aided Millimeter Wave MIMO: Spectral Efficiency Analysis and Hybrid Precoder Design. IEEE Transactions on Wireless Communications, 2017, 16, 7658-7671.	9.2	33
18	Novel channel estimation method based on PN sequence reconstruction for Chinese DTTB system. IEEE Transactions on Consumer Electronics, 2008, 54, 1583-1589.	3.6	32

#	ARTICLE	IF	CITATIONS
19	Indoor hospital communication systems: An integrated solution based on power line and visible light communication. , 2014, , .		32
20	Off-Grid Sparse Bayesian Learning-Based Channel Estimation for MmWave Massive MIMO Uplink. IEEE Wireless Communications Letters, 2019, 8, 45-48.	5.0	31
21	5G Internet of Radio Light Positioning System for Indoor Broadcasting Service. IEEE Transactions on Broadcasting, 2020, 66, 534-544.	3.2	30
22	Key Technologies and Measurements for DTMB-A System. IEEE Transactions on Broadcasting, 2019, 65, 53-64.	3.2	25
23	Scheduling to Minimize Age of Information in Multi-State Time-Varying Networks with Power Constraints. , 2019, , .		24
24	Performance Analysis for Multihop Cognitive Radio Networks With Energy Harvesting by Using Stochastic Geometry. IEEE Internet of Things Journal, 2020, 7, 1154-1163.	8.7	24
25	Binary Neural Network Aided CSI Feedback in Massive MIMO System. IEEE Wireless Communications Letters, 2021, 10, 1305-1308.	5.0	24
26	Improved Channel Estimation for TDS-OFDM Based on Flexible Frequency-Binary Padding. IEEE Transactions on Broadcasting, 2010, 56, 418-424.	3.2	23
27	Spectral-Efficient Analog Precoding for Generalized Spatial Modulation Aided MmWave MIMO. IEEE Transactions on Vehicular Technology, 2017, 66, 9598-9602.	6.3	21
28	On the Achievable Rate Region of NOMA Under Outage Probability Constraints. IEEE Communications Letters, 2019, 23, 370-373.	4.1	21
29	Internet of radio and light: 5G building network radio and edge architecture. Intelligent and Converged Networks, 2020, 1, 37-57.	4.8	20
30	Low-Complexity OFDM-Based Hybrid Precoding for Multiuser Massive MIMO Systems. IEEE Wireless Communications Letters, 2020, 9, 263-266.	5.0	19
31	Binarized Aggregated Network With Quantization: Flexible Deep Learning Deployment for CSI Feedback in Massive MIMO Systems. IEEE Transactions on Wireless Communications, 2022, 21, 5514-5525.	9.2	19
32	Generalized Spatial Modulation-Based Multi-User and Signal Detection Scheme for Terrestrial Return Channel With NOMA. IEEE Transactions on Broadcasting, 2018, 64, 211-219.	3.2	18
33	Scheduling to Minimize Age of Synchronization in Wireless Broadcast Networks With Random Updates. IEEE Transactions on Wireless Communications, 2020, 19, 4023-4037.	9.2	17
34	Efficient Selection on Spatial Modulation Antennas: Learning or Boosting. IEEE Wireless Communications Letters, 2020, 9, 1249-1252.	5.0	16
35	A Novel User Pairing in Downlink Non-Orthogonal Multiple Access. , 2018, , .		15
36	A Low-Complexity Detection Algorithm for Uplink NOMA System Based on Gaussian Approximation. , 2017, , .		13

#	ARTICLE	IF	CITATIONS
37	Harvesting both rate gain and diversity gain: Combination of NOMA with the Alamouti scheme. , 2017, , .		13
38	Device Activity Detection and Non-Coherent Information Transmission for Massive Machine-Type Communications. IEEE Access, 2020, 8, 41452-41465.	4.2	13
39	Field trial of advanced DTMB system DTMB-A in Hong Kong. , 2013, , .		11
40	A Priori Information Aided Iterative Equalization: A Novel Approach for Single-Carrier Spatial Modulation in Dispersive Channels. IEEE Transactions on Vehicular Technology, 2016, , 1-1.	6.3	11
41	Channel Estimation Based on Space-Time-Frequency Coded Training Sequence for Transmit Diversity System. IEICE Transactions on Communications, 2009, E92-B, 1901-1903.	0.7	10
42	Embedded Transmission of Multi-Service Over DTMB System. IEEE Transactions on Broadcasting, 2010, 56, 504-513.	3.2	10
43	$\ell_1$ Minimization Based Symbol Detection for Generalized Space Shift Keying. IEEE Communications Letters, 2015, 19, 1109-1112.	4.1	10
44	On Massive Spatial Modulation MIMO: Spectral Efficiency Analysis and Optimal System Design. , 2016, , .		9
45	A Novel Three-Dimensional Algorithm Based on Practical Indoor Visible Light Positioning. IEEE Photonics Journal, 2019, 11, 1-8.	2.0	9
46	Towards Higher Spectral Efficiency: Spatial Path Index Modulation Improves Millimeter-Wave Hybrid Beamforming. IEEE Journal on Selected Topics in Signal Processing, 2019, 13, 1348-1359.	10.8	9
47	Channel Estimation for the Chinese DTTB System Based on a Novel Iterative PN Sequence Reconstruction. , 2008, , .		8
48	The Noise Transfer Analysis in Frequency Domain Zero-Forcing Equalization. IEEE Transactions on Communications, 2013, 61, 1-12.	7.8	8
49	A High-Accuracy Adaptive Beam Training Algorithm for MmWave Communication. , 2018, , .		8
50	Spectral Efficiency Analysis for Spatial Modulation Aided Layered Division Multiplexing Systems With Gaussian and Finite Alphabet Inputs. IEEE Transactions on Broadcasting, 2018, 64, 909-914.	3.2	8
51	Time domain synchronous OFDM based on simultaneous multi-channel reconstruction. , 2013, , .		7
52	A MACA-based collision avoidance MAC protocol for underwater acoustic sensor networks. , 2016, , .		7
53	Doubly selective underwater acoustic channel estimation with basis expansion model. , 2017, , .		7
54	Uplink Spectral Efficiency Analysis and Optimization for Massive SC-SM MIMO With Frequency Domain Detection. IEEE Transactions on Vehicular Technology, 2018, 67, 3937-3949.	6.3	7

#	ARTICLE	IF	CITATIONS
55	Point-to-Multipoint Communications and Broadcasting in 5G. IEEE Communications Magazine, 2018, 56, 72-73.	6.1	7
56	Spatial Modulation Aided Layered Division Multiplexing: A Spectral Efficiency Perspective. IEEE Transactions on Broadcasting, 2019, 65, 20-29.	3.2	7
57	Scheduling to Minimize Age of Synchronization in Wireless Broadcast Networks with Random Updates. , 2019, , .		7
58	Optimizing Age Penalty in Time-Varying Networks with Markovian and Error-Prone Channel State. Entropy, 2021, 23, 91.	2.2	7
59	Research on 4-D 8PSK TCM decoding algorithm. , 2012, , .		6
60	Bandwidth Efficiency Maximization for Single-Cell Massive Spatial Modulation MIMO: An Adaptive Power Allocation Perspective. IEEE Access, 2017, 5, 1482-1495.	4.2	6
61	Spectral efficiency analysis for spatial modulation in massive MIMO uplink over dispersive channels. , 2017, , .		6
62	Deep Convolutional Auto-Encoder based Indoor Light Positioning Using RSS Temporal Image. , 2019, , .		6
63	Triple-Structured Sparsity-Based Channel Feedback for RIS-Assisted MU-MIMO System. IEEE Communications Letters, 2022, 26, 1141-1145.	4.1	6
64	Simplified Decision-Directed Channel Estimation Method for OFDM System with Transmit Diversity. , 2009, , .		5
65	Dual PN padding TDS-OFDM for underwater acoustic communication. , 2012, , .		5
66	Iterative MMSE-DFE and Error Transfer for OFDM in Doubly Selective Channels. IEEE Transactions on Broadcasting, 2015, 61, 541-547.	3.2	5
67	Multiuser Detection for FEC-Coded Massive Spatial Modulation MIMO: An Iterative Interference Rejection Approach. IEEE Transactions on Vehicular Technology, 2017, 66, 9567-9571.	6.3	5
68	Stochastic Optimization Based Dynamic User Scheduling and Hybrid Precoding for Broadband MmWave MIMO. , 2019, , .		5
69	High Accuracy Indoor Visible Light Positioning Considering the Shapes of Illuminators. , 2019, , .		5
70	Higher Spectral Efficiency for mmWave MIMO: Enabling Techniques and Precoder Designs. IEEE Communications Magazine, 2021, 59, 116-122.	6.1	5
71	Iterative Channel Estimation for Unique-Word Based Single-Carrier Block Transmission. , 2008, , .		4
72	Technical Review for Chinese Future DTTB System. , 2010, , .		4

#	ARTICLE	IF	CITATIONS
73	Transmit Diversity Scheme for TDS-OFDM Systems with Reduced Complexity. , 2011, , .		4
74	Adaptive compressive sensing based channel estimation for TDS-OFDM systems. , 2013, , .		4
75	Improving the performance of spatial modulation by phase-only pre-scaling. , 2015, , .		4
76	Triple-Structured Compressive Sensing-based Channel Estimation for RIS-aided MU-MIMO Systems. , 2021, , .		4
77	Low Complexity Soft Decoder for Nordstrom-Robinson Code With Application to the Chinese DTTB Standard. IEEE Transactions on Broadcasting, 2009, 55, 668-673.	3.2	3
78	Pilot Design and Channel Estimation for TDS-OFDM System with Transmit Diversity. IEICE Transactions on Communications, 2011, E94-B, 852-855.	0.7	3
79	Frequency Domain Turbo Equalization under MMSE Criterion for Single Carrier MIMO Systems. , 2015, , .		3
80	Pilot allocation for MIMO-OFDM systems: A structured compressive sensing perspective. , 2016, , .		3
81	Error probability and mutual information analysis on generalized precoded spatial modulation system. , 2016, , .		3
82	Generalized Spatial Modulation Aided mmWave MIMO with Sub-Connected Hybrid Precoding Scheme. , 2017, , .		3
83	Spectral Efficiency Enhancement With Power Allocation for Massive SC-SM MIMO Uplink. IEEE Communications Letters, 2018, 22, 101-104.	4.1	3
84	Early Drop: A Packet-Dropping Incentive Rate Control Mechanism to Keep Data Fresh under Heterogeneous QoS Requirements. , 2021, , .		3
85	A Low-Complexity Hybrid Precoding Scheme for mmWave MIMO Systems with Dynamic Subarrays. , 2021, , .		3
86	Error Correction Coding for One-Bit Quantization With CNN-Based AutoEncoder. IEEE Communications Letters, 2022, 26, 1814-1818.	4.1	3
87	High-throughput LDPC decoding architecture. , 2008, , .		2
88	TDS-OFDM Transmit Diversity Based on Space-Time Shifted CAZAC Sequence. , 2010, , .		2
89	Frequency Domain Turbo Equalization with Iterative Channel Estimation for Single Carrier MIMO Underwater Acoustic Communications. , 2015, , .		2
90	Constellation and labeling optimization for bit-interleaved coded spatial modulation system. , 2017, , .		2

#	ARTICLE	IF	CITATIONS
91	Iterative uniform-cost search of active antenna group selection for generalised spatial modulation. , 2017, , .		2
92	Basis expansion model based spectral efficient channel recovery scheme for spatial-temporal correlated massive MIMO systems. IET Communications, 2017, 11, 2621-2629.	2.2	2
93	On the Achievable Spectral Efficiency of Layered Division Multiplexing with Finite Alphabet Inputs. , 2018, , .		2
94	Spectral Efficiency Maximization for Spatial Modulation Aided Layered Division Multiplexing: An Injection Level Optimization Perspective. , 2018, , .		2
95	Low Complexity Hybrid Precoding Algorithm for GenSM Aided mmWave MIMO Systems. , 2018, , .		2
96	On the Energy Coverage of Low Power Wide Area Networks (LPWANS) Wireless Powered by Ultra-Dense mmWave Small Cells. , 2018, , .		2
97	Results of the DTMB-A Field Trials in Hong Kong. , 2019, , .		2
98	Low-Complexity Hybrid Precoding Algorithm Based on Log-Det Expansion for GenSM-Aided MmWave MIMO System. IEEE Transactions on Vehicular Technology, 2021, 70, 1554-1564.	6.3	2
99	A Novel Two-Layer Data Transmission Scheme in TDS-OFDM System. IEICE Transactions on Communications, 2012, E95.B, 3637-3641.	0.7	2
100	Multiple Optical Beam Switching for Physical Layer Security of Visible Light Communications. IEEE Photonics Journal, 2022, 14, 1-9.	2.0	2
101	Optimizing Age of Information in Multicast Unilateral Networks. , 2020, , .		2
102	Joint Link Rate Selection and Channel State Change Detection in Block-Fading Channels. , 2021, , .		2
103	Online Utility Optimization in Multi-User Interference Networks Under a Long-Term Budget Constraint. IEEE Transactions on Vehicular Technology, 2022, 71, 11033-11046.	6.3	2
104	Performance improvement of a transmitter diversity scheme for TDS-OFDM system. , 0, , .		1
105	Review of Key Techniques for Future DTTB Systems. , 2010, , .		1
106	A Novel Multi-Service Multiplexing Scheme Based on STBC in TDS-OFDM System. IEICE Transactions on Communications, 2011, E94-B, 1118-1121.	0.7	1
107	Channel estimation for TDS-OFDM transmit diversity systems over doubly selective channels. , 2012, , .		1
108	Iterative receiver with Turbo equalization and soft demapping in multipath fading channels. , 2014, , .		1

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109	Frequency Domain Turbo Equalization under MMSE Criterion for Single Carrier MIMO Systems. , 2014, , .		1
110	A novel spectral efficient spatial modulation scheme. , 2015, , .		1
111	Equalization without noise enhancement for dual PN padding TDS-OFDM. , 2016, , .		1
112	Basis expansion model based spectral efficient channel estimation scheme for massive MIMO systems. , 2017, , .		1
113	Deep Learning-Based Space Shift Keying Systems. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2019, , 70-78.	0.3	1
114	On RF-Chain Limited Spatial Modulation Aided NOMA: Spectral Efficiency Analysis. , 2019, , .		1
115	A High-Precision Positioning Scheme Under Non-Point Visible Transmitters. IEEE Open Journal of the Communications Society, 2020, 1, 1131-1139.	6.9	1
116	8K Ultra-high Definition Digital Television Transmission System Based on DTMB-A. , 2020, , .		1
117	The Performance Measurement of the 60GHz mmWave Module for IoRL Network. , 2020, , .		1
118	Secure Optical Wireless Links with Dynamic Beam and Diversity Receiver. , 2021, , .		1
119	Performance Comparison of Repetition Coding MIMO Optical Wireless Communications with Distinct Light Beams. Sensors, 2022, 22, 1256.	3.8	1
120	Effects of Optical Beams on MIMO Visible Light Communication Channel Characteristics. Sensors, 2022, 22, 216.	3.8	1
121	Research on Coordinated Coverage of Non-Lambertian Optical Wireless Communications. , 2021, , .		1
122	Scheduling to Minimize Age of Synchronization in Multi-channel Time-sensitive Networks. , 2022, , .		1
123	Frequency synchronization for TDS-OFDM system with transmit diversity. , 2009, , .		0
124	Differential ISI Cancellation for TDS-OFDM. IEICE Transactions on Communications, 2010, E93-B, 207-210.	0.7	0
125	Designs of Differential Space-Time and Space-Frequency Coded OFDM Schemes. Wireless Personal Communications, 2010, 52, 195-208.	2.7	0
126	Accurate position location in TDS-OFDM based digital television broadcasting networks. , 2010, , .		0



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127	Efficient Rate-Adaptive Modulation for LDPC-Coded OFDM System. , 2010, , .		0
128	Low complexity implementation of channel estimation and equalization for TDS-OFDM system. , 2011, , .		0
129	On the datacasting scheme over Chinese DTTB systems using signal space diversity. , 2011, , .		0
130	Layered data transmission based on training sequences in TDS-OFDM system. , 2012, , .		0
131	A novel scheme for single-carrier wireless burst transmission. , 2013, , .		0
132	Extended space shift keying scheme for MIMO channels. , 2014, , .		0
133	Adaptive subspace pursuit based channel estimation method for TDS-OFDM systems. , 2014, , .		0
134	Inter-carrier interference cancelation for Alamouti coded single frequency network. , 2015, , .		0
135	A low complexity frequency offset estimation for dual PN TDS-OFDM. , 2015, , .		0
136	Convergence of Frequency-Domain Iterative MF-DFE for Single-Carrier Modulation. IEEE Transactions on Communications, 2015, 63, 4150-4158.	7.8	0
137	Pilot allocation for MIMO-ZP-OFDM systems in underwater acoustic channel based on structured compressive sensing. , 2016, , .		0
138	Compressive sensing based signal design for multiple access in return channel. , 2016, , .		0
139	A polynomial expansion based detection: A low-complexity approach for generalised spatial modulation over transmit antenna correlation. , 2017, , .		0
140	Reducing RF resource for 5G communication networks: A spatial modulation motivated approach. , 2017, , .		0
141	Spectral efficiency analysis and pilot reuse factor optimisation for multi-cell massive SC-FM MIMO. IET Communications, 2018, 12, 1195-1200.	2.2	0
142	Multi-Resolution Beamforming and User Clustering in Downlink Massive MIMO Non-Orthogonal Multiple Access System. , 2019, , .		0
143	Low-Complexity Multiuser Detection for Generalized Media-Based Modulation Systems. , 2019, , .		0
144	Average SER Analysis for Layered Division Multiplexing System with Index Modulation. , 2019, , .		0

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145	Field Trials of UHDTV Broadcasting over DTMB-A System. Smpte Motion Imaging Journal, 2021, 130, 47-59.	0.2	0
146	Optical beam cooperation-based secrecy capacity enhancement for visible light communications. Electronics Letters, 0, , .	1.0	0
147	Novel Consecutive-Pilot Design for Phase Noise Suppression in OFDM System. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2009, E92-A, 1704-1707.	0.3	0
148	Complexity Reduced Transmit Diversity Scheme for Time Domain Synchronous OFDM Systems. IEICE Transactions on Communications, 2011, E94-B, 3116-3124.	0.7	0
149	Joint bandwidth and power allocation for multiple services in TV white space. IET Communications, 2019, 13, 569-577.	2.2	0
150	Low-Complexity Hybrid Precoder Design for GenSM-Aided mmWave MIMO. , 2020, , .		0
151	Delay Optimal Cross-Layer Scheduling Over Markov Channels with Power Constraint. , 2020, , .		0
152	A Hungarian Algorithm Based Hybrid Precoding Scheme for mmWave Massive MIMO Systems. , 2022, , .		0
153	Optical Beams Switching-Based Coverage Enhancement Scheme for Compact Visible Light Communications. Journal of Lightwave Technology, 2022, 40, 6139-6150.	4.6	0
154	High-SNR Capacity of MIMO Optical Intensity Channels: A Sphere-Packing Perspective. IEEE Communications Letters, 2022, 26, 2302-2306.	4.1	0