

# Jie Tang

## List of Publications by Year in descending order

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112  
papers

3,996  
citations

147566

31  
h-index

123241

61  
g-index

113  
all docs

113  
docs citations

113  
times ranked

3534  
citing authors

#	ARTICLE	IF	CITATIONS
1	UAV-Assisted Emergency Networks in Disasters. IEEE Wireless Communications, 2019, 26, 45-51.	6.6	443
2	Caching UAV Assisted Secure Transmission in Hyper-Dense Networks Based on Interference Alignment. IEEE Transactions on Communications, 2018, 66, 2281-2294.	4.9	263
3	UAV-Relaying-Assisted Secure Transmission With Caching. IEEE Transactions on Communications, 2019, 67, 3140-3153.	4.9	216
4	Resource Allocation for Energy Efficiency Optimization in Heterogeneous Networks. IEEE Journal on Selected Areas in Communications, 2015, 33, 2104-2117.	9.7	203
5	Energy Efficiency Optimization for NOMA With SWIPT. IEEE Journal on Selected Topics in Signal Processing, 2019, 13, 452-466.	7.3	152
6	Joint Precoding Optimization for Secure SWIPT in UAV-Aided NOMA Networks. IEEE Transactions on Communications, 2020, 68, 5028-5040.	4.9	149
7	Resource Efficiency: A New Paradigm on Energy Efficiency and Spectral Efficiency Tradeoff. IEEE Transactions on Wireless Communications, 2014, 13, 4656-4669.	6.1	125
8	IRS-Assisted Secure UAV Transmission via Joint Trajectory and Beamforming Design. IEEE Transactions on Communications, 2022, 70, 1140-1152.	4.9	122
9	Optimization or Alignment: Secure Primary Transmission Assisted by Secondary Networks. IEEE Journal on Selected Areas in Communications, 2018, 36, 905-917.	9.7	118
10	Energy-efficient design for mmWave-enabled NOMA-UAV networks. Science China Information Sciences, 2021, 64, 1.	2.7	113
11	Secure NOMA Based Two-Way Relay Networks Using Artificial Noise and Full Duplex. IEEE Journal on Selected Areas in Communications, 2018, 36, 1426-1440.	9.7	106
12	A Deep Learning-Based Approach to Power Minimization in Multi-Carrier NOMA With SWIPT. IEEE Access, 2019, 7, 17450-17460.	2.6	98
13	Exact SINR Statistics in the Presence of Heterogeneous Interferers. IEEE Transactions on Information Theory, 2015, 61, 6759-6773.	1.5	88
14	Energy Efficiency Optimization With SWIPT in MIMO Broadcast Channels for Internet of Things. IEEE Internet of Things Journal, 2018, 5, 2605-2619.	5.5	88
15	Energy-Constrained UAV-Assisted Secure Communications With Position Optimization and Cooperative Jamming. IEEE Transactions on Communications, 2020, 68, 4476-4489.	4.9	72
16	UAV-Enabled SWIPT in IoT Networks for Emergency Communications. IEEE Wireless Communications, 2020, 27, 140-147.	6.6	69
17	Hybrid Evolutionary-Based Sparse Channel Estimation for IRS-Assisted mmWave MIMO Systems. IEEE Transactions on Wireless Communications, 2022, 21, 1586-1601.	6.1	61
18	Multi-Objective Optimization for UAV-Assisted Wireless Powered IoT Networks Based on Extended DDPG Algorithm. IEEE Transactions on Communications, 2021, 69, 6361-6374.	4.9	59

#	ARTICLE	IF	CITATIONS
19	Covert Communication in UAV-Assisted Air-Ground Networks. IEEE Wireless Communications, 2021, 28, 190-197.	6.6	55
20	Caching Unmanned Aerial Vehicle-Enabled Small-Cell Networks: Employing Energy-Efficient Methods That Store and Retrieve Popular Content. IEEE Vehicular Technology Magazine, 2019, 14, 71-79.	2.8	54
21	Massive MIMO-Enabled Full-Duplex Cellular Networks. IEEE Transactions on Communications, 2017, 65, 4734-4750.	4.9	53
22	Joint Power Allocation and Splitting Control for SWIPT-Enabled NOMA Systems. IEEE Transactions on Wireless Communications, 2020, 19, 120-133.	6.1	53
23	Joint Antenna Selection and Spatial Switching for Energy Efficient MIMO SWIPT System. IEEE Transactions on Wireless Communications, 2017, 16, 4754-4769.	6.1	52
24	Joint 3D Trajectory Design and Time Allocation for UAV-Enabled Wireless Power Transfer Networks. IEEE Transactions on Vehicular Technology, 2020, 69, 9265-9278.	3.9	52
25	Minimum Throughput Maximization for Multi-UAV Enabled WPCN: A Deep Reinforcement Learning Method. IEEE Access, 2020, 8, 9124-9132.	2.6	51
26	Beamforming and Jamming Optimization for IRS-Aided Secure NOMA Networks. IEEE Transactions on Wireless Communications, 2022, 21, 1557-1569.	6.1	50
27	Hybrid Beamforming Design and Resource Allocation for UAV-Aided Wireless-Powered Mobile Edge Computing Networks With NOMA. IEEE Journal on Selected Areas in Communications, 2021, 39, 3271-3286.	9.7	47
28	Energy Efficiency Optimization for CoMP-SWIPT Heterogeneous Networks. IEEE Transactions on Communications, 2018, 66, 6368-6383.	4.9	45
29	Energy Minimization in D2D-Assisted Cache-Enabled Internet of Things: A Deep Reinforcement Learning Approach. IEEE Transactions on Industrial Informatics, 2020, 16, 5412-5423.	7.2	44
30	Joint 3D Trajectory and Power Optimization for UAV-Aided mmWave MIMO-NOMA Networks. IEEE Transactions on Communications, 2021, 69, 2346-2358.	4.9	44
31	Cascaded Channel Estimation for RIS Assisted mmWave MIMO Transmissions. IEEE Wireless Communications Letters, 2021, 10, 2065-2069.	3.2	38
32	On the Energy Efficiencyâ€“Spectral Efficiency Tradeoff in MIMO-OFDMA Broadcast Channels. IEEE Transactions on Vehicular Technology, 2016, 65, 5185-5199.	3.9	32
33	A Unified Model for the Design and Analysis of Spatially-Correlated Load-Aware HetNets. IEEE Transactions on Communications, 2014, 62, 1-16.	4.9	31
34	Decoupling or Learning: Joint Power Splitting and Allocation in MC-NOMA With SWIPT. IEEE Transactions on Communications, 2020, 68, 5834-5848.	4.9	31
35	An Indoor Localization Algorithm Based on Continuous Feature Scaling and Outlier Deleting. IEEE Internet of Things Journal, 2018, 5, 1108-1115.	5.5	29
36	Energy-Efficient Heterogeneous Cellular Networks With Spectrum Underlay and Overlay Access. IEEE Transactions on Vehicular Technology, 2018, 67, 2439-2453.	3.9	29

#	ARTICLE	IF	CITATIONS
37	Optimization for Maximizing Sum Secrecy Rate in SWIPT-Enabled NOMA Systems. IEEE Access, 2018, 6, 43440-43449.	2.6	27
38	A Cache-Aided Communication Scheme for Downlink Coordinated Multipoint Transmission. IEEE Access, 2018, 6, 1416-1427.	2.6	26
39	High-Gain Circular Patch Antenna and Array With Introduction of Multiple Shorting Pins. IEEE Transactions on Antennas and Propagation, 2020, 68, 6506-6515.	3.1	26
40	Self-Interference in Full-Duplex Multi-User MIMO Channels. IEEE Communications Letters, 2017, 21, 841-844.	2.5	25
41	Joint Location and Transmit Power Optimization for NOMA-UAV Networks via Updating Decoding Order. IEEE Wireless Communications Letters, 2021, 10, 136-140.	3.2	25
42	Performance Analysis for Multihop Cognitive Radio Networks With Energy Harvesting by Using Stochastic Geometry. IEEE Internet of Things Journal, 2020, 7, 1154-1163.	5.5	24
43	On Energy Harvesting of Hybrid TDMA-NOMA Systems. , 2019, , .		23
44	Resource Allocation Technique for Hybrid TDMA-NOMA System with Opportunistic Time Assignment. , 2020, , .		23
45	Energy Efficiency Optimization With Interference Alignment in Multi-Cell MIMO Interfering Broadcast Channels. IEEE Transactions on Communications, 2015, 63, 2486-2499.	4.9	22
46	Design, Modeling, and Performance Analysis of Multi-Antenna Heterogeneous Cellular Networks. IEEE Transactions on Communications, 2016, 64, 3104-3118.	4.9	22
47	Spectral-Energy Efficiency Trade-Off-Based Beamforming Design for MISO Non-Orthogonal Multiple Access Systems. IEEE Transactions on Wireless Communications, 2020, 19, 6593-6606.	6.1	21
48	Energy-Efficient Joint Power Allocation in Uplink Massive MIMO Cognitive Radio Networks With Imperfect CSI. IEEE Access, 2017, 5, 27611-27621.	2.6	20
49	Signal Estimation in Cognitive Satellite Networks for Satellite-Based Industrial Internet of Things. IEEE Transactions on Industrial Informatics, 2020, , 1-1.	7.2	20
50	Adaptive Aggregate Transmission for Device-to-Multi-Device Aided Cooperative NOMA Networks. IEEE Journal on Selected Areas in Communications, 2022, 40, 1355-1370.	9.7	20
51	Full-Duplex Cloud Radio Access Network: Stochastic Design and Analysis. IEEE Transactions on Wireless Communications, 2018, 17, 7190-7207.	6.1	19
52	UAV-Aided Covert Communication With a Multi-Antenna Jammer. IEEE Transactions on Vehicular Technology, 2021, 70, 11619-11631.	3.9	19
53	Energy-Efficiency Optimization for D2D Communications Underlying UAV-Assisted Industrial IoT Networks With SWIPT. IEEE Internet of Things Journal, 2023, 10, 1990-2002.	5.5	19
54	2-D DOA Robust Estimation of Echo Signals Based on Multiple Satellites Passive Radar in the Presence of Alpha Stable Distribution Noise. IEEE Access, 2019, 7, 16032-16042.	2.6	18

#	ARTICLE	IF	CITATIONS
55	Joint Altitude and Hybrid Beamspace Precoding Optimization for UAV-Enabled Multiuser mmWave MIMO System. IEEE Transactions on Vehicular Technology, 2022, 71, 1713-1725.	3.9	16
56	Robust DOA Estimation via Sparse Signal Reconstruction With Impulsive Noise. IEEE Communications Letters, 2017, 21, 1333-1336.	2.5	15
57	Stochastic Geometric Analysis of Energy-Efficient Dense Cellular Networks. IEEE Access, 2017, 5, 455-469.	2.6	15
58	Offset Learning Based Channel Estimation for Intelligent Reflecting Surface-Assisted Indoor Communication. IEEE Journal on Selected Topics in Signal Processing, 2022, 16, 41-55.	7.3	13
59	Channel Estimation of IRS-Aided Communication Systems with Hybrid Multiobjective Optimization. , 2021, , .		11
60	SINR Maximization for RIS-Assisted Secure Dual-Function Radar Communication Systems. , 2021, , .		11
61	Polarization-Independent Rectifier With Wide Frequency and Input Power Ranges Based on Novel Six-Port Network. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 4822-4830.	2.9	10
62	A Reinforcement Learning Approach for D2D-Assisted Cache-Enabled HetNets. , 2019, , .		9
63	Trajectory Planning of UAV in Wireless Powered IoT System Based on Deep Reinforcement Learning. , 2020, , .		9
64	Joint Trajectory and Communication Design for IRS-Assisted UAV Networks. IEEE Wireless Communications Letters, 2022, 11, 1538-1542.	3.2	9
65	Sum-Rate Maximization Technique for Spectrum-Sharing MIMO OFDM Broadcast Channels. IEEE Transactions on Vehicular Technology, 2011, 60, 1960-1964.	3.9	8
66	Cooperative Video Transmission Strategies via Caching in Small-Cell Networks. IEEE Transactions on Vehicular Technology, 2018, 67, 12204-12217.	3.9	8
67	Resource and energy efficient device to device communications in downlink cellular system. , 2018, , .		8
68	UAV-Aided Multi-Antenna Covert Communication Against Multiple Wardens. , 2021, , .		7
69	Greedy Block Coordinate Descent under Restricted Isometry Property. Mobile Networks and Applications, 2017, 22, 371-376.	2.2	6
70	Caching UAV Assisted Secure Transmission in Small-Cell Networks. , 2018, , .		6
71	Performance Analysis of Cognitive Clustered M2M Random Networks With Joint User and Machine Device Selection. IEEE Access, 2019, 7, 83515-83525.	2.6	6
72	A Deep Learning-Based Approach to Resource Allocation in UAV-aided Wireless Powered MEC Networks. , 2021, , .		6

#	ARTICLE	IF	CITATIONS
73	Energy Efficiency Optimization for D2D communications in UAV-assisted Networks with SWIPT. , 2021, , .		6
74	Full-Duplex Relay Assisted Secure Transmission for NOMA Networks. , 2019, , .		5
75	Highly-Isolated RF Power and Information Receiving System Based on Dual-Band Dual-Circular-Polarized Shared-Aperture Antenna. IEEE Transactions on Circuits and Systems I: Regular Papers, 2022, 69, 3093-3101.	3.5	5
76	Energy efficiency in heterogeneous networks. , 2015, , .		4
77	Full-duplex versus half-duplex large scale antenna system. , 2017, , .		4
78	Secure NOMA Based Full-Duplex Two-Way Relay Networks with Artificial Noise against Eavesdropping. , 2018, , .		4
79	NOMA and Coded Multicasting in Cache-Aided Wireless Networks. IEEE Transactions on Wireless Communications, 2022, 21, 2506-2520.	6.1	4
80	Special Issue on Unmanned Aerial Vehicle (UAV)-Enabled Green Communications and Networking. IEEE Transactions on Green Communications and Networking, 2021, 5, 1232-1235.	3.5	4
81	Deep Learning Based Resource Allocation in NOMA Wireless Power Transfer Networks. , 2019, , .		4
82	Placement and Concise MSE Lower-Bound for UAV-Enabled Localization via RSS. IEEE Transactions on Vehicular Technology, 2022, 71, 2209-2213.	3.9	4
83	Joint Trajectory and Beamforming Optimization for Secure UAV Transmission Aided by IRS. , 2021, , .		4
84	Design of a Novel 2-bit Wideband Beam-Scanning Reconfigurable Intelligent Surface. , 2021, , .		4
85	Modeling and analysis of cellular networks with elastic data traffic. , 2016, , .		3
86	Energy-Efficient Resource Allocation in SWIPT Enabled NOMA Systems. , 2018, , .		3
87	Drone Mobile Networks: Performance Analysis Under 3D Tractable Mobility Models. IEEE Access, 2021, 9, 90555-90567.	2.6	3
88	Millimeter-Wave Coordinated Beamforming Enabled Cooperative Network: A Stochastic Geometry Approach. IEEE Transactions on Communications, 2020, , 1-1.	4.9	3
89	Secure Beamforming Optimization for IRS-NOMA Networks via Artificial Jamming. , 2021, , .		3
90	Energy efficiency in multi-cell MIMO broadcast channels with interference alignment. , 2014, , .		2

#	ARTICLE	IF	CITATIONS
91	A Lorentzian IHT for Complex-Valued Sparse Signal Recovery. <i>Circuits, Systems, and Signal Processing</i> , 2018, 37, 862-872.	1.2	2
92	Secure Transmission for UAV-Aided NOMA Networks with SWIPT via Precoding Optimization. , 2019, , .		2
93	Secrecy Analysis for NOMA networks With a Full-Duplex Jamming Relay. , 2021, , .		2
94	High-Accuracy Reconfigurable Intelligent Surface Using Independently Controllable Methods. , 2021, , .		2
95	Optimal Deployment of Dense Cellular Networks. , 2016, , .		1
96	Performance Analysis of Multi-Antenna HetNets. , 2016, , .		1
97	Multi-objective Optimization of Joint Power Allocation and Splitting Control for SWIPT-enabled NOMA Systems. , 2019, , .		1
98	Physical Layer Secrecy in the Wireless Power Transfer Network with Full-Duplex Jamming. , 2019, , .		1
99	Precoding Optimization for NOMA UAV with Cellular Connections. , 2019, , .		1
100	Joint 3D Placement and Power Allocation for UAV-aided MIMO-NOMA Networks. , 2020, , .		1
101	Energy-Efficient Adaptive Modulation and Data Schedule for Delay-Sensitive Wireless Communications. <i>IEEE Access</i> , 2020, 8, 38123-38135.	2.6	1
102	Joint 3D placement and multi-beam design for UAV-assisted wireless power transfer networks. <i>Physical Communication</i> , 2021, 44, 101234.	1.2	1
103	System-Level Performance Analysis in 3D Drone Mobile Networks. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2020, , 311-322.	0.2	1
104	Cross-Layer Optimization for Industrial Internet of Things in NOMA-Based C-RANs. <i>IEEE Internet of Things Journal</i> , 2022, 9, 16962-16975.	5.5	1
105	Energy Efficiency Optimization for Plane Spiral OAM Mode-Group Based MIMO-NOMA Systems. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2021, , 177-188.	0.2	1
106	Energy Efficiency Optimization for PSOAM Mode-Groups Based MIMO-NOMA Systems. <i>IEEE Transactions on Communications</i> , 2022, 70, 5679-5692.	4.9	1
107	Inverter-Based Fast Transient Response Capacitor-Less LDO. , 2019, , .		0
108	Artificial Jamming Assisted Secure Transmission for MISO-NOMA Networks. , 2019, , .		0

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109	Mathematical Model and Reference Frequency Optimization for Digital Dual-Band Pulsewidth Modulation. , 2020, ,		0
110	Guest Editorial Special Issue on Selected Papers From IEEE Globecom 2020. IEEE Transactions on Green Communications and Networking, 2021, 5, 1777-1780.	3.5	0
111	Energy Efficient Resource Allocation forÂUCA-Based OAM-MIMO System. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2021, , 189-200.	0.2	0
112	Joint 3D Trajectory and Power Optimization for Multiple Antenna Aided NOMA in UAV Networks. , 2020, ,		0