

Jiliang Zhang

List of Publications by Year in descending order

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104
papers

941
citations

471477

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105
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105
docs citations

105
times ranked

776
citing authors

#	ARTICLE	IF	CITATIONS
1	Complex-Valued Discrete-Time Neural Dynamics for Perturbed Time-Dependent Complex Quadratic Programming With Applications. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 3555-3569.	11.3	72
2	Bit Error Probability of Spatial Modulation over Measured Indoor Channels. IEEE Transactions on Wireless Communications, 2014, 13, 1380-1387.	9.2	50
3	On the Performance of Full-Duplex Two-Way Relay Channels With Spatial Modulation. IEEE Transactions on Communications, 2016, 64, 4966-4982.	7.8	45
4	D2D-Assisted Caching on Truncated Zipf Distribution. IEEE Access, 2019, 7, 13411-13421.	4.2	40
5	Polarization Shift Keying (PolarSK): System Scheme and Performance Analysis. IEEE Transactions on Vehicular Technology, 2017, 66, 10139-10155.	6.3	37
6	New Joint-Drift-Free Scheme Aided with Projected ZNN for Motion Generation of Redundant Robot Manipulators Perturbed by Disturbances. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 5639-5651.	9.3	33
7	Kinematic Information Aided User-Centric 5G Vehicular Networks in Support of Cooperative Perception for Automated Driving. IEEE Access, 2019, 7, 40195-40209.	4.2	26
8	Noise-Tolerant Zeroing Neural Network for Solving Non-Stationary Lyapunov Equation. IEEE Access, 2019, 7, 41517-41524.	4.2	26
9	Performance of Virtual Full-Duplex Relaying on Cooperative Multi-path Relay Channels. IEEE Transactions on Wireless Communications, 2016, 15, 3628-3642.	9.2	25
10	Design and analysis of recurrent neural network models with non-linear activation functions for solving time-varying quadratic programming problems. CAAI Transactions on Intelligence Technology, 2021, 6, 394-404.	8.1	25
11	On Modified Multi-Output Chebyshev-Polynomial Feed-Forward Neural Network for Pattern Classification of Wine Regions. IEEE Access, 2019, 7, 1973-1980.	4.2	23
12	Wireless Energy Efficiency Evaluation for Buildings Under Design Based on Analysis of Interference Gain. IEEE Transactions on Vehicular Technology, 2020, 69, 6310-6324.	6.3	22
13	End-to-End Performance Optimization of a Dual-Hop Hybrid VLC/RF IoT System Based on SLIPT. IEEE Internet of Things Journal, 2021, 8, 17356-17371.	8.7	22
14	Measurement-based indoor NLoS ToA/RSS range error modelling. Electronics Letters, 2016, 52, 165-167.	1.0	21
15	How Friendly Are Building Materials as Reflectors to Indoor LOS MIMO Communications?. IEEE Internet of Things Journal, 2020, 7, 9116-9127.	8.7	20
16	Wireless Performance Evaluation of Building Layouts: Closed-Form Computation of Figures of Merit. IEEE Transactions on Communications, 2021, 69, 4890-4906.	7.8	19
17	Performance Analysis of Short-Packet Non-Orthogonal Multiple Access With Alamouti Space-Time Block Coding. IEEE Transactions on Vehicular Technology, 2021, 70, 2900-2905.	6.3	18
18	Exact SMP Algorithms for Integer-Forcing Linear MIMO Receivers. IEEE Transactions on Wireless Communications, 2015, 14, 6955-6966.	9.2	16

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19	Modified Weights-and-Structure-Determination Neural Network for Pattern Classification of Flatfoot. IEEE Access, 2019, 7, 63146-63154.	4.2	15
20	Generalized Polarization-Space Modulation. IEEE Transactions on Communications, 2020, 68, 258-273.	7.8	15
21	Fundamental Wireless Performance of a Building. IEEE Wireless Communications, 2022, 29, 186-193.	9.0	15
22	Enhancing Indoor mmWave Wireless Coverage: Small-Cell Densification or Reconfigurable Intelligent Surfaces Deployment?. IEEE Wireless Communications Letters, 2021, 10, 2547-2551.	5.0	14
23	The Impact of Antenna Height on 3D Channel: A Ray Launching Based Analysis. Electronics (Switzerland), 2018, 7, 2.	3.1	13
24	Exact Line-of-Sight Probability for Channel Modeling in Typical Indoor Environments. IEEE Antennas and Wireless Propagation Letters, 2018, 17, 1359-1362.	4.0	12
25	The Analysis of Indoor Wireless Communications by a Blockage Model in Ultra-Dense Networks. , 2018, , .		10
26	SVR Based Blind Signal Recovery for Convolutional MIMO Systems With High-Order QAM Signals. IEEE Access, 2019, 7, 23249-23260.	4.2	10
27	Two-dimensional OAM radar imaging using uniform circular antenna arrays. , 2020, , .		10
28	On the Error Probability of Spatial Modulation over Keyhole MIMO Channels. IEEE Communications Letters, 2013, 17, 2221-2224.	4.1	9
29	Performance of spatial modulation with constant transmitted power under LOS and NLOS scenarios. , 2015, , .		9
30	Cooperative Spectrum Sharing on SWIPT-Based DF Relay: An Energy-Aware Retransmission Approach. IEEE Access, 2019, 7, 120802-120816.	4.2	9
31	Neural Dynamics for Control of Industrial Agitator Tank With Rapid Convergence and Perturbations Rejection. IEEE Access, 2019, 7, 102941-102950.	4.2	8
32	Diversity Analysis for Spatial Scattering Modulation in Millimeter Wave MIMO System. , 2019, , .		8
33	Polarized Spatial Scattering Modulation. IEEE Communications Letters, 2019, 23, 2252-2256.	4.1	8
34	Performance Analysis of A SLIPT-Based Hybrid VLC/RF System. , 2020, , .		8
35	Performance Analysis for Uplink Transmission in User-Centric Ultra-Dense V2I Networks. IEEE Transactions on Vehicular Technology, 2020, 69, 9342-9355.	6.3	8
36	Computation Offloading Analysis in Clustered Fog Radio Access Networks With Repulsion. IEEE Transactions on Vehicular Technology, 2021, 70, 10804-10819.	6.3	8

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37	Density Analysis of LTE-LAA Networks Coexisting With WiFi Sharing Multiple Unlicensed Channels. IEEE Access, 2019, 7, 148004-148018.	4.2	7
38	On the Performance of Indoor Multi-Story Small-Cell Networks. IEEE Transactions on Wireless Communications, 2021, 20, 1336-1348.	9.2	7
39	On the Optimal Base-Station Height in mmWave Small-Cell Networks Considering Cylindrical Blockage Effects. IEEE Transactions on Vehicular Technology, 2021, 70, 9588-9592.	6.3	7
40	Indoor Measurement Based Verification of Ray Launching Algorithm at the Ka-Band. , 2020, , .		7
41	Reconfigurable Intelligent Surface-Assisted Spatial Scattering Modulation. IEEE Communications Letters, 2022, 26, 192-196.	4.1	7
42	Impact of Rotary-Wing UAV Wobbling on Millimeter-Wave Air-to-Ground Wireless Channel. IEEE Transactions on Vehicular Technology, 2022, 71, 9174-9185.	6.3	7
43	On the Performance and Fairness of LTE-U and WiFi Networks Sharing Multiple Unlicensed Channels. , 2019, , .		6
44	On Evaluation of Indoor to Outdoor Communications Using Neighbourhood Small Cells. IEEE Transactions on Vehicular Technology, 2020, 69, 8045-8050.	6.3	6
45	On the Fairness of the Coexisting LTE-U and WiFi Networks Sharing Multiple Unlicensed Channels. IEEE Transactions on Vehicular Technology, 2020, 69, 13890-13904.	6.3	6
46	Effects of Wall Reflection on the Per-Antenna Power Distribution of ZF-Precoded ULA for Indoor mmWave MU-MIMO Transmissions. IEEE Communications Letters, 2021, 25, 13-17.	4.1	6
47	On the Performance of 3-D Spatial Modulation Over Measured Indoor Channels. IEEE Transactions on Vehicular Technology, 2022, 71, 2110-2115.	6.3	6
48	Impact of Wall Penetration Loss on Indoor Wireless Networks. IEEE Antennas and Wireless Propagation Letters, 2021, 20, 1888-1892.	4.0	6
49	Lower-Bound Capacity-Based Wireless Friendliness Evaluation for Walls as Reflectors. IEEE Transactions on Broadcasting, 2021, 67, 917-924.	3.2	6
50	Wireless Performance Evaluation of Building Materials Integrated With Antenna Arrays. IEEE Communications Letters, 2022, 26, 942-946.	4.1	6
51	ROFC-LF: Recursive Online Fountain Code With Limited Feedback for Underwater Acoustic Networks. IEEE Transactions on Communications, 2022, 70, 4327-4342.	7.8	6
52	On the Deployment of Small Cells in 3D HetNets With Multi-Antenna Base Stations. IEEE Transactions on Wireless Communications, 2022, 21, 9761-9774.	9.2	6
53	Coverage and Association Bias Analysis for Backhaul Constrained HetNets with eCIC and CRE. Wireless Personal Communications, 2017, 97, 4981-5002.	2.7	5
54	Line-of-Sight Probability for Channel Modeling in 3-D Indoor Environments. IEEE Antennas and Wireless Propagation Letters, 2020, 19, 1182-1186.	4.0	5

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55	Two-Ray Reflection Resolution Algorithm for Planar Material Electromagnetic Property Measurement at the Millimeter-Wave Bands. Radio Science, 2020, 55, e2019RS006944.	1.6	5
56	Generalized 3-D Spatial Scattering Modulation. IEEE Transactions on Wireless Communications, 2022, 21, 1570-1585.	9.2	5
57	On Performance of Ultra-Dense Neighborhood Small Cell Networks in Urban Scenarios. IEEE Communications Letters, 2021, 25, 1378-1382.	4.1	5
58	Partition-Based Analytic Evaluation of Building Wireless Performance. IEEE Transactions on Vehicular Technology, 2021, 70, 9036-9049.	6.3	5
59	Performance analysis of FeLIC and adaptive spectrum allocation in heterogeneous networks. , 2017, , .		4
60	Position-Based User-Centric Radio Resource Management in 5G UDN for Ultra-Reliable and Low-Latency Vehicular Communications. , 2019, , .		4
61	Adaptive Spatial Scattering Modulation. IEEE Transactions on Wireless Communications, 2021, 20, 6680-6690.	9.2	4
62	Blind equalization of QAM signals via extreme learning machine. , 2018, , .		3
63	Downlink Coverage Analysis of K-Tier Heterogeneous Networks with Multiple Antennas. , 2019, , .		3
64	Location-Aware Cross-Tier Cooperation for Massive MIMO Heterogeneous Networks. IEEE Wireless Communications Letters, 2020, 9, 1577-1580.	5.0	3
65	Design of Glass-Integrated Grid Antenna Using CMA for Multiband Indoor Network. , 2021, , .		3
66	Artificial Neural Network Application in Prediction of Concrete Embedded Antenna Performance. , 2021, , .		3
67	Verification of an Intelligent Ray Launching Algorithm in Indoor Environments in the Ka-Band. Radio Science, 2021, 56, e2020RS007252.	1.6	3
68	A SLIPT-Based Hybrid VLC/RF Cooperative Communication System with Relay Selection. , 2021, , .		3
69	Investigation of spatial correlation for two-user cooperative communication in indoor office environment. , 2010, , .		2
70	Spatial characterization of indoor MIMO radio channel at both 6.05GHz and 2.45GHz based on measurement. , 2015, , .		2
71	Complex Minkowski Reduction and a Relaxation for Near-Optimal MIMO Linear Equalization. IEEE Wireless Communications Letters, 2016, , 1-1.	5.0	2
72	On outage of dual-hop relay SWIPT system with antenna selection and GSC over Nakagami-m fading channels. , 2016, , .		2

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73	A practical complex BKZ reduction algorithm for near-optimal MIMO SIC detection. , 2016, , .		2
74	Modelling and Analysis of Reduced Power Subframes in Two-Tier Femto HetNets. , 2016, , .		2
75	Digraph-based joint routing and resource allocation in software-defined backhaul networks. , 2017, , .		2
76	Fast joint sorting and reduction algorithm for MIMO SIC detection. Electronics Letters, 2017, 53, 594-596.	1.0	2
77	Exploiting adaptive modulation in E-band software-defined backhaul network. , 2018, , .		2
78	Joint Optimization of FeICIC and Spectrum Allocation for Spectral and Energy Efficient Heterogeneous Networks. IEICE Transactions on Communications, 2018, E101.B, 1462-1475.	0.7	2
79	Blind equalization of multilevel signals via support vector regression. , 2018, , .		2
80	Joint Symbol Timing and Channel Estimation for FBMC-OQAM Systems. IEEE Access, 2019, 7, 131326-131337.	4.2	2
81	Measurement Based Millimeter Wave Massive MIMO Channel Parameter Comparison. , 2020, , .		2
82	Foam Evolution Inspired Modeling for Staged Construction of Ultra-Dense Small Cell Networks. IEEE Access, 2021, 9, 35431-35438.	4.2	2
83	Measurement of Millimeter-wave 3D MIMO Channel in Large Indoor Environment. , 2021, , .		2
84	Measurements of Reflection and Penetration Loss in Indoor Environments in the 39-GHz Band. , 2021, , .		2
85	Spatial correlation coefficient estimator for frequency selective MIMO channels. Electronics Letters, 2019, 55, 290-292.	1.0	2
86	Tractable performance analysis of small-cell networks with a novel bounded path loss model. Electronics Letters, 2020, 56, 105-107.	1.0	2
87	Joint Impact of BS Height and Downtilt on Downlink Data Rate in mmWave Networks with 3D Large-Scale Antenna Arrays. , 2020, , .		2
88	Wideband MIMO channel spatial correlation measurement under different polarization patterns. , 2010, , .		1
89	QoS-aware channel-width adaptation in wireless mesh networks. , 2016, , .		1
90	Exact data BER analysis of embedded fingerprint physical layer authentication over fading channels. IEICE Communications Express, 2016, 5, 467-472.	0.4	1

#	ARTICLE	IF	CITATIONS
91	A low complexity HD detector for dual polarized spatial modulation. , 2017, , .		1
92	Modeling and Analysis of FeICIC in OFDMA HetNets with Limited Backhaul Capacity. , 2018, , .		1
93	A New Type of Neural Network for Assisting Diagnosis of Flatfoot in Juveniles. , 2019, , .		1
94	Cross-Layer Design for Fountain Coded Non-Orthogonal Multiple Access Transmission. , 2019, , .		1
95	Zeroing-Type Recurrent Neural Network for Solving Time-Dependent Lyapunov Equation with Noise Rejection. , 2019, , .		1
96	Empirical Formulas for Performance Prediction of Concrete Embedded Antenna. , 2021, , .		1
97	Indoor Multiple-User MIMO Channel Measurement and Characterization. , 2018, , .		0
98	On RNN Models for Solving Dynamic System of Linear Equations. , 2019, , .		0
99	A Controller of Liquid Material on Fast Saturated Zeroing Dynamics Model in Industrial Agitator Tank. , 2019, , .		0
100	New Integration-Enhanced Newton Algorithm for Real-Time Tracking Control of Robot Manipulators. , 2019, , .		0
101	Parameter Optimization for Energy Efficient Indoor Massive MIMO Small Cell Networks. , 2020, , .		0
102	Optimal Antenna Selection for TCP Throughput Over Practical Distributed Cognitive Radio Networks. Lecture Notes in Electrical Engineering, 2019, , 530-540.	0.4	0
103	Effect of Spatial Interference Correlation on Uplink Performance of User-Centric Dense V2I Networks. , 2020, , .		0
104	Corrections to "How Friendly Are Building Materials as Reflectors to Indoor LOS MIMO Communications?" [Sep 20 9116-9127]. IEEE Internet of Things Journal, 2022, 9, 16736-16737.	8.7	0