

Ning Ge

List of Publications by Year in descending order

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162
papers

2,672
citations

279798

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164
docs citations

164
times ranked

2456
citing authors

#	ARTICLE	IF	CITATIONS
1	Spectrum and Energy-Efficient Beamspace MIMO-NOMA for Millimeter-Wave Communications Using Lens Antenna Array. IEEE Journal on Selected Areas in Communications, 2017, 35, 2370-2382.	14.0	275
2	UAV-Aided MIMO Communications for 5G Internet of Things. IEEE Internet of Things Journal, 2019, 6, 1731-1740.	8.7	167
3	Virtual MIMO in Multi-Cell Distributed Antenna Systems: Coordinated Transmissions with Large-Scale CSIT. IEEE Journal on Selected Areas in Communications, 2013, 31, 2067-2081.	14.0	144
4	Hybrid Satellite-Terrestrial Communication Networks for the Maritime Internet of Things: Key Technologies, Opportunities, and Challenges. IEEE Internet of Things Journal, 2021, 8, 8910-8934.	8.7	142
5	Social-Aware Resource Allocation for Device-to-Device Communications Underlying Cellular Networks. IEEE Transactions on Wireless Communications, 2015, 14, 6621-6634.	9.2	130
6	5G Embraces Satellites for 6G Ubiquitous IoT: Basic Models for Integrated Satellite Terrestrial Networks. IEEE Internet of Things Journal, 2021, 8, 14399-14417.	8.7	116
7	Cell-Free Satellite-UAV Networks for 6G Wide-Area Internet of Things. IEEE Journal on Selected Areas in Communications, 2021, 39, 1116-1131.	14.0	108
8	When mmWave Communications Meet Network Densification: A Scalable Interference Coordination Perspective. IEEE Journal on Selected Areas in Communications, 2017, 35, 1459-1471.	14.0	107
9	Maritime Coverage Enhancement Using UAVs Coordinated With Hybrid Satellite-Terrestrial Networks. IEEE Transactions on Communications, 2020, 68, 2355-2369.	7.8	100
10	Enabling 5G on the Ocean: A Hybrid Satellite-UAV-Terrestrial Network Solution. IEEE Wireless Communications, 2020, 27, 116-121.	9.0	94
11	Joint Optimization of Resource Allocation and Relay Selection for Network Coding Aided Device-to-Device Communications. IEEE Communications Letters, 2015, 19, 807-810.	4.1	91
12	Joint Transmit Precoding and Reconfigurable Intelligent Surface Phase Adjustment: A Decomposition-Aided Channel Estimation Approach. IEEE Transactions on Communications, 2021, 69, 1228-1243.	7.8	76
13	Cooperative Multigroup Multicast Transmission in Integrated Terrestrial-Satellite Networks. IEEE Journal on Selected Areas in Communications, 2018, 36, 981-992.	14.0	75
14	Exploiting the Shipping Lane Information for Energy-Efficient Maritime Communications. IEEE Transactions on Vehicular Technology, 2019, 68, 7204-7208.	6.3	46
15	CHANNEL CHARACTERIZATION AND FINITE-STATE MARKOV CHANNEL MODELING FOR TIME-VARYING PLASMA SHEATH SURROUNDING HYPERSONIC VEHICLES. Progress in Electromagnetics Research, 2014, 145, 299-308.	4.4	41
16	Fairness-oriented hybrid precoding for massive MIMO maritime downlink systems with large-scale CSIT. China Communications, 2018, 15, 52-61.	3.2	40
17	Joint Multigroup Precoding and Resource Allocation in Integrated Terrestrial-Satellite Networks. IEEE Transactions on Vehicular Technology, 2019, 68, 8075-8090.	6.3	39
18	Optimal Energy-Efficient Power Allocation for Distributed Antenna Systems With Imperfect CSI. IEEE Transactions on Vehicular Technology, 2016, 65, 7759-7763.	6.3	37

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19	Creating Efficient Blockchains for the Internet of Things by Coordinated Satellite-Terrestrial Networks. IEEE Wireless Communications, 2020, 27, 104-110.	9.0	32
20	AF Relaying with Energy Harvesting Source and Relay. IEEE Transactions on Vehicular Technology, 2016, , 1-1.	6.3	28
21	Delay Characterization of Mobile-Edge Computing for 6G Time-Sensitive Services. IEEE Internet of Things Journal, 2021, 8, 3758-3773.	8.7	28
22	Hardware-Efficient Hybrid Precoding for Millimeter Wave Systems With Multi-Feed Reflectarrays. IEEE Access, 2018, 6, 6795-6806.	4.2	27
23	Social Trust Aided D2D Communications: Performance Bound and Implementation Mechanism. IEEE Journal on Selected Areas in Communications, 2018, 36, 1593-1608.	14.0	26
24	Hierarchical Transmission Optimization for Massively Dense Distributed Antenna Systems. IEEE Communications Letters, 2015, 19, 673-676.	4.1	25
25	A Shock Tube Experimental System for Communication Performance Evaluation Under the Time-Varying Plasma Flow Channel. IEEE Transactions on Plasma Science, 2017, 45, 2450-2459.	1.3	24
26	Reinforcement Learning-Empowered Mobile Edge Computing for 6G Edge Intelligence. IEEE Access, 2022, 10, 65156-65192.	4.2	24
27	UAV Swarm-Enabled Aerial CoMP: A Physical Layer Security Perspective. IEEE Access, 2019, 7, 120901-120916.	4.2	22
28	Social-Community-Aware Long-Range Link Establishment for Multihop D2D Communication Networks. IEEE Transactions on Vehicular Technology, 2016, 65, 9372-9385.	6.3	21
29	Fundamental Tradeoffs on Energy-Aware D2D Communication Underlying Cellular Networks: A Dynamic Graph Approach. IEEE Journal on Selected Areas in Communications, 2016, 34, 864-882.	14.0	20
30	Overlapping Coalition Formation Game for Resource Allocation in Network Coding Aided D2D Communications. IEEE Transactions on Mobile Computing, 2017, 16, 3459-3472.	5.8	20
31	Diamond: Nesting the Data Center Network With Wireless Rings in 3-D Space. IEEE/ACM Transactions on Networking, 2018, 26, 145-160.	3.8	20
32	MEC-Empowered Non-Terrestrial Network for 6G Wide-Area Time-Sensitive Internet of Things. Engineering, 2022, 8, 96-107.	6.7	19
33	Aerial Small Cells Using Coordinated Multiple UAVs: An Energy Efficiency Optimization Perspective. IEEE Access, 2019, 7, 122838-122848.	4.2	17
34	Optimal Beamforming for Hybrid Satellite Terrestrial Networks With Nonlinear PA and Imperfect CSIT. IEEE Wireless Communications Letters, 2020, 9, 276-280.	5.0	15
35	Investigation of the time-offset-based QoS support with optical burst switching in WDM networks. , 0, , ,		14
36	CRC look-up table optimization for single-bit error correction. Tsinghua Science and Technology, 2007, 12, 620-623.	6.1	14

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37	Energy-Efficiency Maximization for Secure Multiuser MIMO SWIPT Systems With CSI Uncertainty. IEEE Access, 2018, 6, 2097-2109.	4.2	14
38	UAV-Enabled Accompanying Coverage for Hybrid Satellite-Uav-Terrestrial Maritime Communications. , 2019, , .		14
39	Pilot-Based Channel Estimation for AF Relaying Using Energy Harvesting. IEEE Transactions on Vehicular Technology, 2017, 66, 6877-6886.	6.3	13
40	On Relay Selection and Subcarrier Assignment for Multiuser Cooperative OFDMA Networks With QoS Guarantees. IEEE Transactions on Vehicular Technology, 2014, 63, 4704-4717.	6.3	12
41	Optimized time-shifted pilots for maritime massive MIMO communication systems. , 2017, , .		12
42	Outage Probability Analysis and Dynamic Criterion Calculation Under the Plasma Sheath Channel. IEEE Transactions on Plasma Science, 2018, 46, 1995-2002.	1.3	12
43	Joint Mode Selection and Resource Allocation for Cellular Controlled Short-Range Communication in OFDMA Networks. IEICE Transactions on Communications, 2012, E95-B, 1023-1026.	0.7	11
44	Coordinated satellite-terrestrial networks: A robust spectrum sharing perspective. , 2017, , .		11
45	Visual information assisted UAV positioning using priori remote-sensing information. Multimedia Tools and Applications, 2018, 77, 14461-14480.	3.9	11
46	Energy Efficient Resource Allocation in Cloud Based Integrated Terrestrial-Satellite Networks. , 2018, , .		11
47	DDoS Defense for IoT: A Stackelberg Game Model-Enabled Collaborative Framework. IEEE Internet of Things Journal, 2022, 9, 9659-9674.	8.7	11
48	Coverage Optimization for UAV-Aided Internet of Things with Partial Channel Knowledge. Journal of Communications and Information Networks, 2018, 3, 55-63.	5.2	10
49	UWB-based Wireless Body Area Networks channel modeling and performance evaluation. , 2011, , .		9
50	Simplified fault-tolerant FIR filter architecture based on redundant residue number system. Electronics Letters, 2014, 50, 1768-1770.	1.0	9
51	Position-assisted interference coordination for integrated terrestrial-satellite networks. , 2015, , .		9
52	Exploiting Macrodiversity in Massively Distributed Antenna Systems: A Controllable Coordination Perspective. IEEE Transactions on Vehicular Technology, 2016, 65, 8720-8724.	6.3	9
53	Location-aware Dynamic Beam Scheduling for Maritime Communication Systems. , 2018, , .		9
54	Charactering the Peak-to-Average Power Ratio of OTFS Signals: A Large System Analysis. IEEE Transactions on Wireless Communications, 2022, 21, 3705-3720.	9.2	9

#	ARTICLE	IF	CITATIONS
55	A Distributed Collaborative Entrance Defense Framework Against DDoS Attacks on Satellite Internet. IEEE Internet of Things Journal, 2022, 9, 15497-15510.	8.7	9
56	A low power error detection in the syndrome calculator block for reed-solomon codes: RS(204,188). Tsinghua Science and Technology, 2009, 14, 474-477.	6.1	8
57	Capacity gain from receiver cooperation for MIMO broadcast channels. , 2013, , .		8
58	Social community aware long-range link establishment for multi-hop D2D communication networks. , 2015, , .		8
59	Defending Against Link Flooding Attacks in Internet of Things: A Bayesian Game Approach. IEEE Internet of Things Journal, 2022, 9, 117-128.	8.7	8
60	SC-UWB: A low-complexity UWB technology for portable devices. , 2011, , .		7
61	A Signal Subspace Detection Technique for Single Carrier Block Transmission with Unique Words. IEEE Communications Letters, 2011, 15, 151-153.	4.1	7
62	On the restriction of utilizing orbital angular momentum in radio communications. , 2013, , .		7
63	Fast remote-sensing image registration using priori information and robust Feature extraction. Tsinghua Science and Technology, 2016, 21, 552-560.	6.1	7
64	Performance of Social-Position Relationships Based Cooperation Among Mobile Terminals. IEEE Transactions on Vehicular Technology, 2016, 65, 3128-3138.	6.3	7
65	Sum Rate Maximization for Mobile UAV-Aided Internet of Things Communications System. , 2018, , .		7
66	PN Code Acquisition Using Belief Propagation with Adaptive Parity Check Matrix. Wireless Personal Communications, 2013, 71, 3105-3113.	2.7	6
67	A fast convergence and area-efficient decoder for quasi-cyclic low-density parity-check codes. , 2013, , .		6
68	On optimal relay selection and subcarrier assignment in OFDMA relay networks with QoS guarantees. , 2014, , .		6
69	Adaptive scheduling for millimeter wave multi-beam satellite communication systems. Journal of Communications and Information Networks, 2016, 1, 42-50.	5.2	6
70	Environment-Aware Coverage Optimization for Space-Ground Integrated Maritime Communications. IEEE Access, 2020, 8, 89205-89214.	4.2	6
71	On-Demand Coverage for Maritime Hybrid Satellite-UAV-Terrestrial Networks. , 2020, , .		6
72	Fast Antijamming Timing Acquisition Using Multilayer Synchronization Sequence. IEEE Transactions on Vehicular Technology, 2013, 62, 3497-3503.	6.3	5

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73	Adaptive inter-cell coordination for the distributed antenna system with correlated antenna-clusters. , 2014, , .		5
74	Adaptive shipborne base station sleeping control for dynamic broadband maritime communications. , 2017, , .		5
75	Power Allocation for UAV Swarm-Enabled Secure Networks Using Large-Scale CSI. , 2019, , .		5
76	RIS-Aided Offshore Communications with Adaptive Beamforming and Service Time Allocation. , 2020, , .		5
77	Resource Optimization for Signal Recognition in Satellite MEC with Federated Learning. , 2021, , .		5
78	DDoS detection for 6G Internet of Things: Spatial-temporal trust model and new architecture. China Communications, 2022, 19, 141-149.	3.2	5
79	Dual-stage clock recovery for TDM in packet networks. , 0, , .		4
80	Synchronization acquisition threshold based on peak-to-average ratio of correlation energy for UWB communications. , 2011, , .		4
81	ASIC implementation of fractionally spaced Rake receiver for high data rate UWB systems. Electronics Letters, 2011, 47, 215.	1.0	4
82	GLRT for Packet Detection With Practical Analog AGC. IEEE Transactions on Vehicular Technology, 2014, 63, 1749-1758.	6.3	4
83	Maximization of link capacity by joint power and spectrum allocation for smart satellite transponder. , 2017, , .		4
84	Defending Link Flooding Attacks under Incomplete Information: A Bayesian Game Approach. , 2020, , .		4
85	A Time-Frequency Interleave Structure of Single Carrier FDE over Deep Fading Wireless Channels. IEICE Transactions on Communications, 2010, E93-B, 2800-2803.	0.7	3
86	Iterative soft QRD-M detection and decoding for single carrier block transmission systems. , 2014, , .		3
87	Dynamic-Cell-Based Macro Coordination for Massively Distributed MIMO Systems. , 2015, , .		3
88	Robust minimum variance beamforming under distributional uncertainty. , 2015, , .		3
89	Dealing with large overhead in FDD massive MIMO systems: A one-bit feedback scheme. , 2016, , .		3
90	Analysis of plasma sheath channel characteristics based on the shock tube experiment. , 2017, , .		3

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91	A QoE-Based Alarm Model for Terminal Video Quality. , 2019, , .		3
92	Process-Oriented Optimization for Beyond 5G Cognitive Satellite-UAV Networks (Invited Paper). , 2020, , .		3
93	Deep Learning Based Device Classification Method for Safeguarding Internet of Things. , 2021, , .		3
94	Joint Power and Channel Allocation for Safeguarding Cognitive Satellite-UAV Networks. , 2021, , .		3
95	An iterative multipath interference canceller with linear equalization for ultra high data rate DS-UWB system. , 2009, , .		2
96	Analysis of Multipath Interference of SRAKE Receivers in UWB Systems. , 2010, , .		2
97	Adaptive pilot power allocation for distributed antenna systems with large-scale CSI. , 2014, , .		2
98	An On-Line Decoding Algorithm for 3GPP MBMS Raptor Codes. , 2015, , .		2
99	A method to eliminate TDOA ambiguity based on FDOA and FDOA-rate. , 2015, , .		2
100	Physical Layer Network Coding Aided Two-Way Device-to-Device Communication Underlying Cellular Networks. , 2015, , .		2
101	Enhanced FSK demodulation with accurate log-likelihood ratio for plasma sheath channels. , 2016, , .		2
102	Pilot power adaptation for tomographic channel estimation in distributed MIMO systems. IET Communications, 2017, 11, 112-118.	2.2	2
103	A Voyage-Based Cooperative Resource Allocation Scheme in Maritime Broadband Access Network. , 2017, , .		2
104	Two-Timescale Beam Selection and Power Allocation for Maritime Offshore Communications. IEEE Communications Letters, 2021, 25, 3060-3064.	4.1	2
105	Deep learning-based symbol detection for time-varying nonstationary channels. China Communications, 2022, 19, 158-171.	3.2	2
106	Channel Modelling for V2V Highway Scenario Based on Birth and Death Process. Wireless Communications and Mobile Computing, 2022, 2022, 1-9.	1.2	2
107	High throughput multicast solution for shared memory packet switch. , 0, , .		1
108	Performance analysis of multicast replication mechanism in shared-memory switch with speedup. Journal of Electronics, 2004, 21, 198-205.	0.2	1

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109	A Novel Clock and Data Recovery Scheme Based on Sigma-Delta Quantization. , 0, , .		1
110	The optimum SRAKE based RAKE-DFE receiver for carrier DS-UWB systems. , 2008, , .		1
111	Performance Studies of a MB-OFDM UWB Systems Using Reduced-Complexity Algorithm for LDPC Decoder. , 2008, , .		1
112	A FDE residual inter-symbol interference suppression algorithm with MBOK modulation for UWB channels. , 2009, , .		1
113	Low complexity quasi-optimum Decision Feedback Equalizer design for high rate ultra-wideband communication. , 2010, , .		1
114	On maximum achievable information rates of single-carrier and multi-carrier systems over the ultra wideband channels. , 2010, , .		1
115	Introduction of SC-UWB proposal. , 2011, , .		1
116	Time-frequency interleave frequency domain equalization in single carrier UWB system. , 2012, , .		1
117	Comparison of achievable rates of OFDM and single carrier communication systems. Tsinghua Science and Technology, 2012, 17, 73-77.	6.1	1
118	Full diversity achieving MMSE frequency-domain equalizer for single-carrier block transmission with DSSS. , 2012, , .		1
119	MIMO broadcast channels with cooperation among densely clustered receivers. , 2014, , .		1
120	A cognitive perspective for information processing in bandwidth-limited wireless communications. , 2014, , .		1
121	An improved CRC coding approach for Raptor code. , 2015, , .		1
122	A physical layer approach for time synchronization in cognitive communication systems. , 2015, , .		1
123	Joint Transceiver Design for Incremental Channel Estimation in Distributed MIMO Systems. IEEE Communications Letters, 2016, 20, 185-188.	4.1	1
124	Performance Analysis of a Polling Model With BMAP and Across-Queue State-Dependent Service Discipline. IEEE Access, 2019, 7, 127230-127253.	4.2	1
125	Energy Efficiency optimization for UAV Swarm-Enabled Aerial Small Cell Networks. , 2020, , .		1
126	Category-Adaptive Domain Adaptation for Semantic Segmentation. , 2022, , .		1

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127	A novel FPGA implementation of SDH Equipment Clock. , 0, , .		0
128	Design of multi-service SDH networks: Formulation and heuristics. Journal of Electronics, 2003, 20, 215-219.	0.2	0
129	An efficient approach for the selection of priority control parameters in adaptive proportional delay differentiated services. , 0, , .		0
130	Performance comparison of cell-based and Packet-Based Switching schemes for shared memory switches. Journal of Electronics, 2004, 21, 55-63.	0.2	0
131	Sigma-delta based clock recovery using on-chip PLL in FPGA. , 2006, , .		0
132	Dynamic multicast traffic grooming in WDM networks. Frontiers of Electrical and Electronic Engineering in China: Selected Publications From Chinese Universities, 2006, 1, 441-444.	0.6	0
133	Unfolded frequency response and model of a multi-tap direct sampling mixer. Tsinghua Science and Technology, 2008, 13, 790-795.	6.1	0
134	Discrete-time charge analysis for a digital RF charge sampling mixer. Journal of Zhejiang University: Science C, 2010, 11, 307-314.	0.7	0
135	On the achievable information rate of selective Rake reception in UWB systems. , 2010, , .		0
136	Non-NCO Periodical-Pilot-Assisted Tracking Method for Practical High-Rate DS-UWB Systems. , 2010, , .		0
137	Single-carrier modulation with frequency domain processing techniques for ultra wideband channels. , 2010, , .		0
138	Design of LDPC code strategy for orthogonal modulation. , 2011, , .		0
139	Multiple access system capacity with M-ary orthogonal modulation. , 2011, , .		0
140	A new analysis of double-dwell serial search and its performance in direct-sequence spread-spectrum systems. , 2011, , .		0
141	LT code design based on RC4 sequential cipher. , 2012, , .		0
142	UWB-based channel modeling in a computer chassis. , 2012, , .		0
143	Error analysis of data transition tracking loop in 60 GHz millimeter wave pseudo-noise regenerative ranging systems. , 2012, , .		0
144	Iterative Block Decision Feedback Equalizer for Time-Frequency Interleave Diversity Scheme. , 2012, , .		0

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145	Full Diversity Achieving MMSE Frequency-Domain Equalizer for Time-Frequency Interleave Block Transmission. , 2012, , .		0
146	An experiment to extract the dynamic nonlinear model of a millimeter wave communication system with ultra-wideband signal. , 2013, , .		0
147	Power allocation strategy for MIMO broadcast channels with receiver cooperation. , 2013, , .		0
148	An Empty-Queue Aware Cooperative Relay MAC Protocol with Vacation Queue Analysis. , 2013, , .		0
149	SIC based soft QRD detection for coded single carrier block transmission with unique word. , 2013, , .		0
150	Mixed Cooperation MAC Protocol with Sleep Mechanism for Data Acquisition in Wireless Machine-to-Machine Networks. International Journal of Distributed Sensor Networks, 2013, 9, 360267.	2.2	0
151	GF(q) LDPC coded spread dimension scheme for anti-jamming communications. , 2013, , .		0
152	Compress-and-forward receiver cooperation for virtual MIMO with finite-alphabet modulation. , 2014, , .		0
153	GLRT Approach for Performance Improvement in Practical Burst Packet Acquisition with AGC Amplifier. Wireless Personal Communications, 2014, 74, 835-848.	2.7	0
154	Soft Decoding Assisted SNR Estimation Under Block Fading Channels for Orthogonal Modulations. Wireless Personal Communications, 2014, 78, 1555-1570.	2.7	0
155	Physical Layer Network Coding Aided Two-Way Device-to-Device Communication Underlying Cellular Networks. , 2014, , .		0
156	Dynamic-Cell-Based Macro Coordination for Massively Distributed MIMO Systems. , 2014, , .		0
157	Dynamic channel modeling for communication through turbulent plasma sheath. , 2015, , .		0
158	Evaluation of SNR estimation errors on amplify-and-forward relaying performance. , 2016, , .		0
159	Novel pilot-based estimators for AF relaying channels using energy harvesting. , 2016, , .		0
160	Achieving Massive MIMO Gains in the FDD System for 5G: An Environment-Aware Perspective. , 2017, , .		0
161	Symbol Detection Using Discrete Prolate Spheroidal Sequences under the Plasma Sheath Channel. , 2018, , .		0
162	Algorithm Design Simulation of Image Coding Decoding and Target Tracking Based on JPEG2000. Journal of Computational and Theoretical Nanoscience, 2015, 12, 4553-4559.	0.4	0