Petar Popovski

List of Publications by Year
in descending order

423 papers	18,125 citations	41344 49 h-index	22166 113 g-index
431 all docs	431 docs citations	431 times ranked	11265 citing authors

#	Article	IF	Citations
1	Five disruptive technology directions for 5G. IEEE Communications Magazine, 2014, 52, 74-80.	6.1	3,763
2	Toward Massive, Ultrareliable, and Low-Latency Wireless Communication With Short Packets. Proceedings of the IEEE, 2016, 104, 1711-1726.	21.3	774
3	5G Wireless Network Slicing for eMBB, URLLC, and mMTC: A Communication-Theoretic View. IEEE Access, 2018, 6, 55765-55779.	4.2	582
4	Massive machine-type communications in 5g: physical and MAC-layer solutions. , 2016, 54, 59-65.		541
5	Physical Network Coding in Two-Way Wireless Relay Channels. , 2007, , .		512
6	Optimized constellations for two-way wireless relaying with physical network coding. IEEE Journal on Selected Areas in Communications, 2009, 27, 773-787.	14.0	418
7	Millimeter Wave Cellular Networks: A MAC Layer Perspective. IEEE Transactions on Communications, 2015, 63, 3437-3458.	7.8	364
8	Sparse Signal Processing for Grant-Free Massive Connectivity: A Future Paradigm for Random Access Protocols in the Internet of Things. IEEE Signal Processing Magazine, 2018, 35, 88-99.	5.6	314
9	Wireless network coding by amplify-and-forward for bi-directional traffic flows. IEEE Communications Letters, 2007, 11, 16-18.	4.1	310
10	Wireless Access in Ultra-Reliable Low-Latency Communication (URLLC). IEEE Transactions on Communications, 2019, 67, 5783-5801.	7.8	282
11	The Anti-Packets Can Increase the Achievable Throughput of a Wireless Multi-Hop Network. , 2006, , .		269
12	Wireless Access for Ultra-Reliable Low-Latency Communication: Principles and Building Blocks. IEEE Network, 2018, 32, 16-23.	6.9	268
13	Ultra-Reliable Communication in 5G Wireless Systems. , 2014, , .		230
14	Robust Networked Control Scheme for Distributed Secondary Control of Islanded Microgrids. IEEE Transactions on Industrial Electronics, 2014, 61, 5363-5374.	7.9	211
15	Buffer-Aided Relaying with Adaptive Link Selection. IEEE Journal on Selected Areas in Communications, 2013, 31, 1530-1542.	14.0	206
16	Towards Massive Connectivity Support for Scalable mMTC Communications in 5G Networks. IEEE Access, 2018, 6, 28969-28992.	4.2	188
17	Cellular, Wide-Area, and Non-Terrestrial IoT: A Survey on 5G Advances and the Road Toward 6G. IEEE Communications Surveys and Tutorials, 2022, 24, 1117-1174.	39.4	172
18	Coded random access: applying codes on graphs to design random access protocols. , 2015, 53, 144-150.		171

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#	Article	IF	Citations
19	Small-Signal Analysis of the Microgrid Secondary Control Considering a Communication Time Delay. IEEE Transactions on Industrial Electronics, 2016, 63, 6257-6269.	7.9	171
20	Why to decouple the uplink and downlink in cellular networks and how to do it. , 2016, 54, 110-117.		155
21	Reconfigurable Intelligent Surfaces: A signal processing perspective with wireless applications. IEEE Signal Processing Magazine, 2022, 39, 135-158.	5.6	152
22	The METIS 5G System Concept: Meeting the 5G Requirements. , 2016, 54, 132-139.		144
23	Seven Defining Features of Terahertz (THz) Wireless Systems: A Fellowship of Communication and Sensing. IEEE Communications Surveys and Tutorials, 2022, 24, 967-993.	39.4	139
24	ALOHA Random Access that Operates as a Rateless Code. IEEE Transactions on Communications, 2013, 61, 4653-4662.	7.8	132
25	Secure Communication With a Wireless-Powered Friendly Jammer. IEEE Transactions on Wireless Communications, 2016, 15, 401-415.	9.2	117
26	Sum-Rate Optimization in a Two-Way Relay Network with Buffering. IEEE Communications Letters, 2013, 17, 95-98.	4.1	114
27	Reconfigurable, Intelligent, and Sustainable Wireless Environments for 6G Smart Connectivity. IEEE Communications Magazine, 2021, 59, 99-105.	6.1	113
28	A Random Access Protocol for Pilot Allocation in Crowded Massive MIMO Systems. IEEE Transactions on Wireless Communications, 2017, 16, 2220-2234.	9.2	108
29	LEO Small-Satellite Constellations for 5G and Beyond-5G Communications. IEEE Access, 2020, 8, 184955-184964.	4.2	108
30	Frameless ALOHA Protocol for Wireless Networks. IEEE Communications Letters, 2012, 16, 2087-2090.	4.1	104
31	Analysis of the Decoupled Access for Downlink and Uplink in Wireless Heterogeneous Networks. IEEE Wireless Communications Letters, 2015, 4, 173-176.	5.0	104
32	Ultra-Reliable Low Latency Communication Using Interface Diversity. IEEE Transactions on Communications, 2018, 66, 1322-1334.	7.8	104
33	Interactive Joint Transfer of Energy and Information. IEEE Transactions on Communications, 2013, 61, 2086-2097.	7.8	91
34	Delay and Communication Tradeoffs for Blockchain Systems With Lightweight IoT Clients. IEEE Internet of Things Journal, 2019, 6, 2354-2365.	8.7	90
35	Analysis of Latency and MAC-Layer Performance for Class A LoRaWAN. IEEE Wireless Communications Letters, 2017, 6, 566-569.	5.0	81
36	Throughput-Guaranteed Resource-Allocation Algorithms for Relay-Aided Cellular OFDMA System. IEEE Transactions on Vehicular Technology, 2009, 58, 1951-1964.	6.3	80

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37	Zero-Error Capacity of a Class of Timing Channels. IEEE Transactions on Information Theory, 2014, 60, 6796-6800.	2.4	79
38	Network Slicing in Industry 4.0 Applications: Abstraction Methods and End-to-End Analysis. IEEE Transactions on Industrial Informatics, 2018, 14, 5419-5427.	11.3	79
39	Spectrum Pooling in MmWave Networks: Opportunities, Challenges, and Enablers. , 2016, 54, 33-39.		78
40	Massive MIMO for Internet of Things (IoT) connectivity. Physical Communication, 2019, 37, 100859.	2.1	77
41	Code-expanded random access for machine-type communications. , 2012, , .		76
42	Random Access Protocols for Massive MIMO. IEEE Communications Magazine, 2017, 55, 216-222.	6.1	72
43	Channel Estimation for RIS-Aided Multiuser Millimeter-Wave Systems. IEEE Transactions on Signal Processing, 2022, 70, 1478-1492.	5.3	72
44	Strategies for adaptive frequency hopping in the unlicensed bands. IEEE Wireless Communications, 2006, 13, 60-67.	9.0	70
45	Improving the rates in wireless relay systems through superposition coding. IEEE Transactions on Wireless Communications, 2008, 7, 4831-4836.	9.2	70
46	Assessment of LTE Wireless Access for Monitoring of Energy Distribution in the Smart Grid. IEEE Journal on Selected Areas in Communications, 2016, 34, 675-688.	14.0	67
47	Radio Resource Allocation Algorithm for Relay-Aided Cellular OFDMA System. , 2007, , .		62
48	Grant-Free Radio Access for Short-Packet Communications over 5G Networks. , 2017, , .		62
49	Design and Analysis of LT Codes with Decreasing Ripple Size. IEEE Transactions on Communications, 2012, 60, 3191-3197.	7.8	60
50	Random Pilot and Data Access in Massive MIMO for Machine-Type Communications. IEEE Transactions on Wireless Communications, 2017, 16, 7703-7717.	9.2	60
51	Opportunistic Scheduling for Wireless Network Coding. , 2007, , .		58
52	Throughput and Diversity Gain of Buffer-Aided Relaying. , 2011, , .		58
53	Denoising Maps and Constellations for Wireless Network Coding in Two-Way Relaying Systems. , 2008, , .		56
54	Private 5G Networks: Concepts, Architectures, and Research Landscape. IEEE Journal on Selected Topics in Signal Processing, 2022, 16, 7-25.	10.8	56

#	Article	IF	Citations
55	Design and Performance Analysis of Noncoherent Detection Systems With Massive Receiver Arrays. IEEE Transactions on Signal Processing, 2016, 64, 5000-5010.	5.3	55
56	Opportunistic Interference Cancellation in Cognitive Radio Systems. , 2007, , .		54
57	Amplify-and-Forward Cooperative Diversity Schemes for Multi-Carrier Systems. IEEE Transactions on Wireless Communications, 2008, 7, 1845-1850.	9.2	54
58	What can wireless cellular technologies do about the upcoming smart metering traffic?. , 2015, 53, 41-47.		54
59	An Overview of Device-to-Device Communications Technology Components in METIS. IEEE Access, 2016, 4, 3288-3299.	4.2	54
60	An Experimental Study of Massive MIMO Properties in 5G Scenarios. IEEE Transactions on Antennas and Propagation, 2018, 66, 7206-7215.	5.1	54
61	Error Floor Analysis of Coded Slotted ALOHA Over Packet Erasure Channels. IEEE Communications Letters, 2015, 19, 419-422.	4.1	53
62	Analysis of the Communication Traffic for Blockchain Synchronization of IoT Devices. , 2018, , .		51
63	Semantic-Effectiveness Filtering and Control for Post-5G Wireless Connectivity. Journal of the Indian Institute of Science, 2020, 100, 435-443.	1.9	51
64	Intelligent Reflecting Surface Operation Under Predictable Receiver Mobility: A Continuous Time Propagation Model. IEEE Wireless Communications Letters, 2021, 10, 216-220.	5.0	51
65	Stochastic Geometric Coverage Analysis in mmWave Cellular Networks With Realistic Channel and Antenna Radiation Models. IEEE Transactions on Communications, 2019, 67, 3736-3752.	7.8	50
66	Design aspects of short-range millimeter-wave networks: A MAC layer perspective. IEEE Network, 2016, 30, 88-96.	6.9	49
67	Coexistence of URLLC and eMBB Services in the C-RAN Uplink: An Information-Theoretic Study. , 2018, , .		47
68	Aggregation and trunking of M2M traffic via D2D connections. , 2015, , .		46
69	Reliable and Efficient Access for Alarm-Initiated and Regular M2M Traffic in IEEE 802.11ah Systems. IEEE Internet of Things Journal, 2016, 3, 673-682.	8.7	46
70	Distributed proportional-fairness control in microgrids via blockchain smart contracts. , 2017, , .		46
71	A Statistical Learning Approach to Ultra-Reliable Low Latency Communication. IEEE Transactions on Communications, 2019, 67, 5153-5166.	7.8	46
72	Review of the State of the Art on Adaptive Protection for Microgrids Based on Communications. IEEE Transactions on Industrial Informatics, 2021, 17, 1539-1552.	11.3	46

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73	Denoising Strategy for Convolutionally-Coded Bidirectional Relaying. , 2009, , .		45
74	Software-Defined Microgrid Control for Resilience Against Denial-of-Service Attacks. IEEE Transactions on Smart Grid, 2019, 10, 5258-5268.	9.0	45
75	Multipacket Reception of Passive UHF RFID Tags: A Communication Theoretic Approach. IEEE Transactions on Signal Processing, 2011, 59, 4225-4237.	5.3	44
76	Downlink Transmission of Short Packets: Framing and Control Information Revisited. IEEE Transactions on Communications, 2017, 65, 2048-2061.	7.8	44
77	M2M massive wireless access: Challenges, research issues, and ways forward. , 2013, , .		43
78	A Novel Technology for Motion Capture Using Passive UHF RFID Tags. IEEE Transactions on Biomedical Engineering, 2013, 60, 1453-1457.	4.2	43
79	An Enhanced Access Reservation Protocol With a Partial Preamble Transmission Mechanism in NB-IoT Systems. IEEE Communications Letters, 2017, 21, 2270-2273.	4.1	43
80	Proportional fair scheduling with superposition coding in a cellular cooperative relay system. Annales Des Telecommunications/Annals of Telecommunications, 2013, 68, 525-537.	2.5	42
81	Broadcast Coded Slotted ALOHA: A Finite Frame Length Analysis. IEEE Transactions on Communications, 2017, 65, 651-662.	7.8	42
82	Risk-Based Optimization of Virtual Reality over Terahertz Reconfigurable Intelligent Surfaces. , 2020, , .		42
83	Modeling and Analysis of Data Trading on Blockchain-Based Market in IoT Networks. IEEE Internet of Things Journal, 2021, 8, 6487-6497.	8.7	42
84	Inter-Plane Inter-Satellite Connectivity in Dense LEO Constellations. IEEE Transactions on Wireless Communications, 2021, 20, 3430-3443.	9.2	41
85	Codeâ€expanded radio access protocol for machineâ€toâ€machine communications. Transactions on Emerging Telecommunications Technologies, 2013, 24, 355-365.	3.9	40
86	Dynamic adaptive frequency hopping for mutually interfering wireless personal area networks. IEEE Transactions on Mobile Computing, 2006, 5, 991-1003.	5.8	39
87	Wireless Secrecy in Cellular Systems With Infrastructure-Aided Cooperation. IEEE Transactions on Information Forensics and Security, 2009, 4, 242-256.	6.9	39
88	Cognitive Multiple Access Network with Outage Margin in the Primary System. IEEE Transactions on Wireless Communications, 2011, 10, 3343-3353.	9.2	39
89	On the Latency-Energy Performance of NB-IoT Systems in Providing Wide-Area IoT Connectivity. IEEE Transactions on Green Communications and Networking, 2020, 4, 57-68.	5.5	39
90	Can Terahertz Provide High-Rate Reliable Low-Latency Communications for Wireless VR?. IEEE Internet of Things Journal, 2022, 9, 9712-9729.	8.7	39

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91	Physical layer network coding for FSK systems. IEEE Communications Letters, 2009, 13, 597-599.	4.1	38
92	Adaptive Modulation and Network Coding with Optimized Precoding in Two-Way Relaying. , 2009, , .		38
93	Compressive coded random access for massive MTC traffic in 5G systems. , 2015, , .		38
94	Non-Orthogonal Multiplexing of Ultra-Reliable and Broadband Services in Fog-Radio Architectures. IEEE Access, 2019, 7, 13035-13049.	4.2	38
95	Antenna Selection for Improving Energy Efficiency in XL-MIMO Systems. IEEE Transactions on Vehicular Technology, 2020, 69, 13305-13318.	6.3	38
96	Random access protocol for massive MIMO: Strongest-user collision resolution (SUCR). , 2016, , .		37
97	Massive MIMO for crowd scenarios: A solution based on random access. , 2014, , .		36
98	Coded Pilot Random Access for Massive MIMO Systems. IEEE Transactions on Wireless Communications, 2018, 17, 8035-8046.	9.2	36
99	Reliable Reporting for Massive M2M Communications With Periodic Resource Pooling. IEEE Wireless Communications Letters, 2014, 3, 429-432.	5.0	35
100	SWIPT with practical modulation and RF energy harvesting sensitivity. , 2016, , .		35
101	Coded Bidirectional Relaying in Wireless Networks. , 2009, , 291-316.		35
102	Coordinated Direct and Relay Transmission With Linear Non-Regenerative Relay Beamforming. IEEE Signal Processing Letters, 2012, 19, 680-683.	3.6	34
103	Wirelessly Powered Communication Networks With Short Packets. IEEE Transactions on Communications, 2017, 65, 5529-5543.	7.8	34
104	Minimizing the Age of Information From Sensors With Common Observations. IEEE Wireless Communications Letters, 2019, 8, 1390-1393.	5.0	34
105	Adaptive Resource Allocation in Cellular OFDMA System with Multiple Relay Stations. IEEE Vehicular Technology Conference, 2007, , .	0.4	33
106	Secure Communications via Cooperating Base Stations. IEEE Communications Letters, 2008, 12, 188-190.	4.1	33
107	Physical-Layer Security With Full-Duplex Transceivers and Multiuser Receiver at Eve. IEEE Transactions on Communications, 2017, 65, 4392-4405.	7.8	33
108	Random Access in C-RAN for User Activity Detection With Limited-Capacity Fronthaul. IEEE Signal Processing Letters, 2017, 24, 17-21.	3.6	33

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109	Proportional fairness in multi-carrier system: upper bound and approximation algorithms. IEEE Communications Letters, 2006, 10, 462-464.	4.1	32
110	Peak Age of Information Distribution for Edge Computing With Wireless Links. IEEE Transactions on Communications, 2021, 69, 3176-3191.	7.8	32
111	Uplink Transmissions in URLLC Systems With Shared Diversity Resources. IEEE Wireless Communications Letters, 2018, 7, 590-593.	5.0	30
112	Robust High-Rate Secondary Control of Microgrids With Mitigation of Communication Impairments. IEEE Transactions on Power Electronics, 2020, 35, 12486-12496.	7.9	30
113	Proportional fairness in multi-carrier system with multi-slot frames: upper bound and user multiplexing algorithms. IEEE Transactions on Wireless Communications, 2008, 7, 22-26.	9.2	29
114	Underlay of low-rate machine-type D2D links on downlink cellular links. , 2014, , .		29
115	Reducing the carbon footprint of house heating through model predictive control â€" A simulation study in Danish conditions. Sustainable Cities and Society, 2018, 42, 558-573.	10.4	29
116	IRS-Assisted Massive MIMO-NOMA Networks: Exploiting Wave Polarization. IEEE Transactions on Wireless Communications, 2021, 20, 7166-7183.	9.2	29
117	Cell-Edge Multi-User Relaying with Overhearing. IEEE Communications Letters, 2013, 17, 1160-1163.	4.1	28
118	Characterization of coded random access with compressive sensing based multi-user detection. , 2014, , .		28
119	Finite-blocklength analysis of the ARQ-protocol throughput over the Gaussian collision channel. , 2014, , .		28
120	Query Age of Information: Freshness in Pull-Based Communication. IEEE Transactions on Communications, 2022, 70, 1606-1622.	7.8	27
121	Efficient LTE access with collision resolution for massive M2M communications. , 2014, , .		26
122	Communication Aspects of the Integration of Wireless IoT Devices with Distributed Ledger Technology. IEEE Network, 2020, 34, 47-53.	6.9	26
123	Wireless Networked Control Systems With Coding-Free Data Transmission for Industrial IoT. IEEE Internet of Things Journal, 2020, 7, 1788-1801.	8.7	26
124	Shout to Secure: Physical-Layer Wireless Security with Known Interference. , 2007, , .		25
125	Opportunistic scheduling for wireless network coding. IEEE Transactions on Wireless Communications, 2009, 8, 2766-2770.	9.2	25
126	Towards the METIS 5G concept: First view on Horizontal Topics concepts. , 2014, , .		25

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127	Wireless Channel Modeling Perspectives for Ultra-Reliable Communications. IEEE Transactions on Wireless Communications, 2019, 18, 2229-2243.	9.2	25
128	Energy-Efficient 3-D Deployment of Aerial Access Points in a UAV Communication System. IEEE Communications Letters, 2020, 24, 2883-2887.	4.1	25
129	Batch conflict resolution algorithm with progressively accurate multiplicity estimation. , 2004, , .		24
130	Coordinated Direct and Relay Transmission with Interference Cancelation in Wireless Systems. IEEE Communications Letters, 2011, 15, 416-418.	4.1	24
131	Exploiting capture effect in frameless ALOHA for massive wireless random access. , 2014, , .		24
132	Zero-Outage Cellular Downlink With Fixed-Rate D2D Underlay. IEEE Transactions on Wireless Communications, 2015, 14, 3533-3543.	9.2	24
133	Massive M2M access with reliability guarantees in LTE systems. , 2015, , .		24
134	Latency and timeliness in multi-hop satellite networks. , 2020, , .		24
135	Design of Flexible-Length S-Random Interleaver for Turbo Codes. IEEE Communications Letters, 2004, 8, 461-463.	4.1	23
136	Fast Capture–Recapture Approach for Mitigating the Problem of Missing RFID Tags. IEEE Transactions on Mobile Computing, 2012, 11, 518-528.	5.8	23
137	Multiuser Communication Through Power Talk in DC MicroGrids. IEEE Journal on Selected Areas in Communications, 2016, 34, 2006-2021.	14.0	23
138	CoMPflex: CoMP for In-Band Wireless Full Duplex. IEEE Wireless Communications Letters, 2016, 5, 144-147.	5.0	23
139	Fifth-Generation Control Channel Design: Achieving Ultrareliable Low-Latency Communications. IEEE Vehicular Technology Magazine, 2018, 13, 84-93.	3.4	23
140	Analysis of LoRaWAN Uplink with Multiple Demodulating Paths and Capture Effect. , 2019, , .		23
141	Ground-Assisted Federated Learning in LEO Satellite Constellations. IEEE Wireless Communications Letters, 2022, 11, 717-721.	5.0	23
142	Distributed Interference Cancellation for Cognitive Radios Using Periodic Signals of the Primary System. IEEE Transactions on Wireless Communications, 2011, 10, 2971-2981.	9.2	22
143	A Study of Trade-Off Between Opportunistic Resource Allocation and Interference Alignment in Femtocell Scenarios. IEEE Wireless Communications Letters, 2012, 1, 356-359.	5.0	22
144	Multi-Flow Scheduling for Coordinated Direct and Relayed Users in Cellular Systems. IEEE Transactions on Communications, 2013, 61, 669-678.	7.8	22

#	Article	IF	Citations
145	Random Access Schemes in Wireless Systems with Correlated User Activity. , 2018, , .		22
146	Minimizing Latency to Support VR Social Interactions Over Wireless Cellular Systems via Bandwidth Allocation. IEEE Wireless Communications Letters, 2018, 7, 776-779.	5.0	22
147	Spectrally-Efficient Wireless Relaying Based on Superposition Coding. IEEE Vehicular Technology Conference, 2007, , .	0.4	21
148	Cognitive Access Policies under a Primary ARQ Process via Forward-Backward Interference Cancellation. IEEE Journal on Selected Areas in Communications, 2013, 31, 2374-2386.	14.0	21
149	Adaptive frequency rolling for coexistence in the unlicensed band. IEEE Transactions on Wireless Communications, 2007, 6, 598-608.	9.2	20
150	Outage Performance in Cognitive Radio Systems with Opportunistic Interference Cancelation. IEEE Transactions on Wireless Communications, 2011, 10, 1280-1288.	9.2	20
151	Robust statistical methods for detection of missing RFID tags. IEEE Wireless Communications, 2011, 18, 74-80.	9.0	20
152	Efficiency analysis of downlink and uplink decoupling in heterogeneous networks. , 2015, , .		20
153	Random access for massive MIMO systems with intra-cell pilot contamination. , 2016, , .		20
154	Massive machine-type communication (mMTC) access with integrated authentication. , 2017, , .		20
155	Spatial Opportunity for Cognitive Radio Systems with Heterogeneous Path Loss Conditions. IEEE Vehicular Technology Conference, 2007, , .	0.4	19
156	Latency-Energy Tradeoff Based on Channel Scheduling and Repetitions in NB-IoT Systems. , 2018, , .		19
157	How URLLC Can Benefit From NOMA-Based Retransmissions. IEEE Transactions on Wireless Communications, 2021, 20, 1684-1699.	9.2	19
158	Ripple Design of LT Codes for BIAWGN Channels. IEEE Transactions on Communications, 2014, 62, 434-441.	7.8	18
159	Random Access for Machine-Type Communication Based on Bloom Filtering. , 2016, , .		18
160	Ultra-reliable cloud mobile computing with service composition and superposition coding. , 2016, , .		18
161	Short Packet Structure for Ultra-Reliable Machine-Type Communication: Tradeoff between Detection and Decoding. , 2018, , .		18
162	Traffic Prediction Based Fast Uplink Grant for Massive IoT. , 2020, , .		18

#	Article	IF	Citations
163	Frequency rolling. , 2004, , .		17
164	Power Distribution of Device-to-Device Communications in Underlaid Cellular Networks. IEEE Wireless Communications Letters, 2016, 5, 204-207.	5.0	17
165	Trusted Wireless Monitoring Based on Distributed Ledgers over NB-IoT Connectivity. IEEE Communications Magazine, 2020, 58, 77-83.	6.1	17
166	Optimizing Information Freshness via Multiuser Scheduling With Adaptive NOMA/OMA. IEEE Transactions on Wireless Communications, 2022, 21, 1766-1778.	9.2	17
167	UEP LT Codes with Intermediate Feedback. IEEE Communications Letters, 2013, 17, 1636-1639.	4.1	16
168	HARQ Buffer Management: An Information-Theoretic View. IEEE Transactions on Communications, 2015, 63, 4539-4550.	7.8	16
169	Low-Complexity Distributed XL-MIMO for Multiuser Detection. , 2020, , .		16
170	On the Assessment of Cyber Risks and Attack Surfaces in a Real-Time Co-Simulation Cybersecurity Testbed for Inverter-Based Microgrids. Energies, 2021, 14, 4941.	3.1	16
171	Reliable identification of RFID tags using multiple independent reader sessions. , 2009, , .		15
172	Analysis of the LTE Access Reservation Protocol for Real-Time Traffic. IEEE Communications Letters, 2013, 17, 1616-1619.	4.1	15
173	Reengineering GSM/GPRS towards a dedicated network for massive smart metering. , 2014, , .		15
174	Power Talk: How to Modulate Data over a DC Micro Grid Bus Using Power Electronics. , 2015, , .		15
175	A Tractable Model of the LTE Access Reservation Procedure for Machine-Type Communications. , 2015, , .		15
176	Cognitive Multiple-Antenna Network With Outage and Rate Margins at the Primary System. IEEE Transactions on Vehicular Technology, 2015, 64, 2409-2423.	6.3	15
177	Latency analysis of systems with multiple interfaces for ultra-reliable M2M communication. , 2016, , .		15
178	Massive Random Access with Common Alarm Messages. , 2019, , .		15
179	Achieving Fair Random Access Performance in Massive MIMO Crowded Machine-Type Networks. IEEE Wireless Communications Letters, 2020, 9, 503-507.	5.0	15
180	Cost- and Energy-Efficient Aerial Communication Networks With Interleaved Hovering and Flying. IEEE Transactions on Vehicular Technology, 2021, 70, 9077-9087.	6.3	15

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181	Capacity Analysis of Coordinated Multipoint Reception for mmWave Uplink With Blockages. IEEE Transactions on Vehicular Technology, 2020, 69, 16299-16303.	6.3	15
182	Energy group-based dynamic framed ALOHA for wireless networks with energy harvesting. , 2012, , .		14
183	Probabilistic Dynamic Framed Slotted ALOHA for RFID Tag Identification. Wireless Personal Communications, 2013, 71, 2947-2963.	2.7	14
184	On the performance of successive interference cancellation in 5G small cell networks. , 2014, , .		14
185	On the Impact of Wireless Jamming on the Distributed Secondary Microgrid Control. , 2016, , .		14
186	User activity detection in massive random access: Compressed sensing vs. coded slotted ALOHA. , 2017, , .		14
187	Improving Spectral Efficiency in URLLC via NOMA-Based Retransmissions. , 2019, , .		14
188	Federated Learning With a Drone Orchestrator: Path Planning for Minimized Staleness. IEEE Open Journal of the Communications Society, 2021, 2, 1000-1014.	6.9	14
189	Age of Information in Multi-hop Networks with Priorities. , 2020, , .		14
190	A Class of Algorithms for Collision Resolution withÂMultiplicityÂEstimation. Algorithmica, 2007, 49, 286-317.	1.3	13
191	Orientation Sensing Using Multiple Passive RFID Tags. IEEE Antennas and Wireless Propagation Letters, 2012, 11, 176-179.	4.0	13
192	Joint estimation and contention-resolution protocol for wireless random access. , 2013, , .		13
193	All-to-all broadcast for vehicular networks based on coded slotted ALOHA. , 2015, , .		13
194	Random Access Protocols With Collision Resolution in a Noncoherent Setting. IEEE Wireless Communications Letters, 2015, 4, 445-448.	5.0	13
195	Data Aggregation and Packet Bundling of Uplink Small Packets for Monitoring Applications in LTE. IEEE Network, 2017, 31, 32-38.	6.9	13
196	Quasi-Distributed Antenna Selection for Spectral Efficiency Maximization in Subarray Switching XL-MIMO Systems. IEEE Transactions on Vehicular Technology, 2021, 70, 6713-6725.	6.3	13
197	Modeling and Experimental Validation for Battery Lifetime Estimation in NB-IoT and LTE-M. IEEE Internet of Things Journal, 2022, 9, 9804-9819.	8.7	13
198	Cognitive Mesh Network Under Interference from Primary User. Wireless Personal Communications, 2008, 45, 385-401.	2.7	12

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199	Scalable DeNoise-and-Forward in bidirectional relay networks. Computer Networks, 2010, 54, 1607-1614.	5.1	12
200	Interference Helps to Equalize the Read Range and Reduce False Positives of Passive RFID Tags. IEEE Transactions on Industrial Electronics, 2012, 59, 4821-4830.	7.9	12
201	Cognitive access policies under a primary ARQ process via chain decoding. , 2013, , .		12
202	Network-Assisted Device-to-Device (D2D) Direct Proximity Discovery with Underlay Communication. , 2015, , .		12
203	Interference Spins: Scheduling of Multiple Interfering Two-Way Wireless Links. IEEE Communications Letters, 2015, 19, 387-390.	4.1	12
204	Reliable Uplink Communication Through Double Association in Wireless Heterogeneous Networks. IEEE Wireless Communications Letters, 2016, 5, 312-315.	5.0	12
205	Frameless ALOHA with Reliability-Latency Guarantees. , 2017, , .		12
206	Stochastic Geometric Coverage Analysis in mmWave Cellular Networks with a Realistic Channel Model. , 2017, , .		12
207	Ultra Reliable Low Latency Communications in Massive Multi-Antenna Systems. , 2018, , .		12
208	Sign-Compute-Resolve for Tree Splitting Random Access. IEEE Transactions on Information Theory, 2018, 64, 5261-5276.	2.4	12
209	Reliability-Latency Performance of Frameless ALOHA With and Without Feedback. IEEE Transactions on Communications, 2020, 68, 6302-6316.	7.8	12
210	Energy Efficient Altitude Optimization of an Aerial Access Point. , 2020, , .		12
211	Prediction of mmWave/THz Link Blockages Through Meta-Learning and Recurrent Neural Networks. IEEE Wireless Communications Letters, 2021, 10, 2815-2819.	5.0	12
212	Optimal cognitive transmission exploiting redundancy in the primary ARQ process. , 2011, , .		11
213	Potential of RFID Systems to Detect Object Orientation. , 2011, , .		11
214	Coordinated Transmissions to Direct and Relayed Users in Wireless Cellular Systems. , 2011, , .		11
215	Feedback in LT Codes for Prioritized and Non-Prioritized Data. , 2012, , .		11
216	How many smart meters can be deployed in a GSM cell?. , 2013, , .		11

#	Article	IF	Citations
217	Sign-compute-resolve for random access. , 2014, , .		11
218	Block-fading channels with delayed CSIT at finite blocklength. , 2014, , .		11
219	Smart Grids. IEEE Wireless Communications, 2017, 24, 8-9.	9.0	11
220	A Novel Receiver Design with Joint Coherent and Non-Coherent Processing. IEEE Transactions on Communications, 2017, , 1-1.	7.8	11
221	Blockchain-Based and Multi-Layered Electricity Imbalance Settlement Architecture. , 2018, , .		11
222	Guest Editorial Ultra-Reliable Low-Latency Communications in Wireless Networks. IEEE Journal on Selected Areas in Communications, 2019, 37, 701-704.	14.0	11
223	Wireless Control of Autonomous Guided Vehicle using Reinforcement Learning. , 2020, , .		11
224	New Paradigms in Wireless Communication Systems. Wireless Personal Communications, 2006, 37, 233-241.	2.7	10
225	Power talk in DC micro grids: Constellation design and error probability performance. , 2015, , .		10
226	Full Duplex emulation via spatial separation of Half Duplex nodes in a planar cellular network. , 2016, , .		10
227	Coded Network Function Virtualization: Fault Tolerance via In-Network Coding. IEEE Wireless Communications Letters, 2016, 5, 644-647.	5.0	10
228	Optimized Interface Diversity for Ultra-Reliable Low Latency Communication (URLLC). , 2017, , .		10
229	Generalized HARQ Protocols with Delayed Channel State Information and Average Latency Constraints. IEEE Transactions on Information Theory, 2018, 64, 1262-1280.	2.4	10
230	Risk-Aware Optimization of Age of Information in the Internet of Things. , 2020, , .		10
231	5G satellite networks for Internet of Things: Offloading and backhauling. International Journal of Satellite Communications and Networking, 2021, 39, 431-444.	1.8	10
232	Content-Based Wake-Up for Top-k Query in Wireless Sensor Networks. IEEE Transactions on Green Communications and Networking, 2021, 5, 362-377.	5.5	10
233	Frequency-Mixing Intelligent Reflecting Surfaces for Nonlinear Wireless Propagation. IEEE Wireless Communications Letters, 2021, 10, 1672-1676.	5.0	10
234	Heuristic Subcarrier Allocation Algorithms with Multi-Slot Frames in Multi-user OFDM Systems. , 2006, , .		9

#	Article	IF	Citations
235	Simple Antenna Pattern Switching and Interference-Induced Multi-Hop Transmissions for Cognitive Radio Networks. , 2007, , .		9
236	Cognitive transmissions under a primary ARQ process via backward interference cancellation. , 2011, , .		9
237	Energy detection using very large antenna array receivers. , 2014, , .		9
238	A pseudo-Bayesian approach to sign-compute-resolve slotted ALOHA. , 2015, , .		9
239	Revisiting frequency reuse towards supporting ultra-reliable ubiquitous-rate communication. , 2017, , .		9
240	Topology identification for multiple-bus DC MicroGrids via primary control perturbations. , 2017, , .		9
241	Experimental Study of the Benefits of a Second Antenna at the User Side in a Massive MIMO System. IEEE Access, 2018, 6, 2899-2907.	4.2	9
242	Joint Compression, Channel Coding, and Retransmission for Data Fidelity With Energy Harvesting. IEEE Transactions on Communications, 2018, 66, 1425-1439.	7.8	9
243	On Distributed Dynamic-TDD Schemes for Base Stations with Decoupled Uplink-Downlink Transmissions. , 2018, , .		9
244	Joint Optimization of Altitude and Transmission Direction in UAV-Based Two-Way Communication. IEEE Wireless Communications Letters, 2019, 8, 984-987.	5.0	9
245	Inter-Plane Satellite Matching in Dense LEO Constellations. , 2019, , .		9
246	Information-Centric Grant-Free Access for IoT Fog Networks: Edge vs. Cloud Detection and Learning. IEEE Transactions on Wireless Communications, 2020, 19, 6347-6361.	9.2	9
247	Assessing Wireless Sensing Potential With Large Intelligent Surfaces. IEEE Open Journal of the Communications Society, 2021, 2, 934-947.	6.9	9
248	Accelerated Randomized Methods for Receiver Design in Extra-Large Scale MIMO Arrays. IEEE Transactions on Vehicular Technology, 2021, 70, 6788-6799.	6.3	9
249	Power Minimization of Downlink Spectrum Slicing for eMBB and URLLC Users. IEEE Transactions on Wireless Communications, 2022, 21, 11051-11065.	9.2	9
250	Strategies for ARQ in 2x2 MIMO Systems. IEEE Communications Letters, 2008, 12, 441-443.	4.1	8
251	Multiple Description Coding with Feedback Based Network Compression. , 2010, , .		8
252	Two-way communication with energy exchange. , 2012, , .		8

#	Article	IF	Citations
253	Diversity-Multiplexing Trade-off for Coordinated Direct and Relay Schemes. IEEE Transactions on Wireless Communications, 2013, 12, 3289-3299.	9.2	8
254	Pseudo-random Aloha for inter-frame soft combining in RFID systems. , 2013, , .		8
255	Delayed Channel State Information: Incremental redundancy with backtrack retransmission. , 2014, , .		8
256	Joint interference alignment and bi-directional scheduling for MIMO two-way multi-link networks. , 2015, , .		8
257	Power Talk: A novel power line communication in DC MicroGrid. , 2016, , .		8
258	Delivery Latency Trade-Offs of Heterogeneous Contents in Fog Radio Access Networks. , 2017, , .		8
259	Freshness on Demand: Optimizing Age of Information for the Query Process. , 2021, , .		8
260	Cognitive Radio Operation under Directional Primary Interference and Practical Path Loss Models. IEICE Transactions on Communications, 2011, E94-B, 1243-1253.	0.7	8
261	Cooperative Transmission: A Reality Check Using Experimental Data. IEEE Vehicular Technology Conference, 2007, , .	0.4	7
262	Outage margin and power constraints in cognitive radio with multiple antennas. , 2009, , .		7
263	Opportunistic interference cancelation and user selection in cognitive multiple access network. , 2012, , .		7
264	Coded slotted ALOHA with varying packet loss rate across users. , 2013, , .		7
265	On Wirelessly Powered Communications with Short Packets. , 2016, , .		7
266	Power Talk for Multibus DC MicroGrids: Creating and Optimizing Communication Channels. , 2016, , .		7
267	Anti-jamming strategy for distributed microgrid control based on Power Talk communication. , 2017, , .		7
268	Decentralized DC Microgrid Monitoring and Optimization via Primary Control Perturbations. IEEE Transactions on Signal Processing, 2018, 66, 3280-3295.	5.3	7
269	Deep Learning for Synchronization and Channel Estimation in NB-IoT Random Access Channel. , 2019, , .		7
270	Real-Time Wireless Networked Control Systems with Coding-Free Data Transmission. , 2019, , .		7

#	Article	IF	Citations
271	Non-Orthogonal Contention-Based Access for URLLC Devices with Frequency Diversity. , 2019, , .		7
272	Standalone Deployment of a Dynamic Drone Cell for Wireless Connectivity of Two Services. , 2021, , .		7
273	Energy-Efficient and Reliable IoT Access Without Radio Resource Reservation. IEEE Transactions on Green Communications and Networking, 2021, 5, 908-920.	5.5	7
274	Learning, Computing, and Trustworthiness in Intelligent IoT Environments: Performance-Energy Tradeoffs. IEEE Transactions on Green Communications and Networking, 2022, 6, 629-644.	5.5	7
275	Cross-Layer Design for the Physical, MAC, and Link Layer in Wireless Systems. Eurasip Journal on Advances in Signal Processing, 2008, 2009, .	1.7	6
276	Interference cancelation schemes for uplink transmission in femtocells. , 2010, , .		6
277	Protocol Coding for Two-Way Communications with Half-Duplex Constraints. , 2010, , .		6
278	Using Wireless Network Coding to Replace a Wired With Wireless Backhaul. IEEE Wireless Communications Letters, 2015, 4, 141-144.	5.0	6
279	Resilient and Secure Low-Rate Connectivity for Smart Energy Applications through Power Talk in DC Microgrids. , 2017, 55, 83-89.		6
280	Common-Message Broadcast Channels With Feedback in the Nonasymptotic Regime: Stop Feedback. IEEE Transactions on Information Theory, 2018, 64, 7686-7718.	2.4	6
281	Machine Learning Methods for Monitoring of Quasiperiodic Traffic in Massive IoT Networks. IEEE Internet of Things Journal, 2020, 7, 7368-7376.	8.7	6
282	Optimal Centralized Dynamic-Time-Division-Duplex. IEEE Transactions on Wireless Communications, 2021, 20, 28-39.	9.2	6
283	Adaptive Provision of CSI Feedback in OFDMA Systems. , 2006, , .		5
284	Tree Protocols for RFID Tags with Generalized Arbitration Spaces. , 2008, , .		5
285	Efficient Spectrum Leasing via Randomized Silencing of Secondary Users. IEEE Transactions on Wireless Communications, 2010, 9, 3739-3749.	9.2	5
286	A Tractable Model of the LTE Access Reservation Procedure for Machine-Type Communications. , 2014, , .		5
287	Variable-length coding for short packets over a multiple access channel with feedback. , 2014, , .		5
288	Broadcasting a common message with variable-length stop-feedback codes. , 2015, , .		5

#	Article	IF	Citations
289	Performance limits of energy detection systems with massive receiver arrays. , 2015, , .		5
290	Variable-length coding with stop-feedback for the common-message broadcast channel. , 2016, , .		5
291	Delay Minimization in Real-Time Communications With Joint Buffering and Coding. IEEE Communications Letters, 2017, 21, 52-55.	4.1	5
292	Coverage and Rate of Downlink Sequence Transmissions With Reliability Guarantees. IEEE Wireless Communications Letters, 2017, 6, 722-725.	5.0	5
293	Secure and robust authentication for DC MicroGrids based on power talk communication. , 2017, , .		5
294	Common-Message Broadcast Channels With Feedback in the Nonasymptotic Regime: Full Feedback. IEEE Transactions on Information Theory, 2018, 64, 7719-7741.	2.4	5
295	Reliability and Error Burst Length Analysis of Wireless Multi-Connectivity. , 2019, , .		5
296	A Queueing Approach to the Latency of Decoupled UL/DL With Flexible TDD and Asymmetric Services. IEEE Wireless Communications Letters, 2019, 8, 1704-1708.	5.0	5
297	Fairness-Aware Superposition Coded Scheduling for a Multi-User Cooperative Cellular System. IEICE Transactions on Communications, 2011, E94-B, 3272-3279.	0.7	5
298	How to Identify and Authenticate Users in Massive Unsourced Random Access. IEEE Communications Letters, 2021, 25, 3795-3799.	4.1	5
299	Arctic Connectivity: A Frugal Approach to Infrastructural Development. Arctic, 2022, 75, 72-85.	0.4	5
300	Common Message Acknowledgments: Massive ARQ Protocols for Wireless Access. IEEE Transactions on Communications, 2022, 70, 5258-5270.	7.8	5
301	Device discovery in short-range wireless ad hoc networks. , 0, , .		4
302	Interference Cancellation and Avoidance for Secondary Users Co-existing with TDD-based Primary Systems. Wireless Personal Communications, 2008, 45, 403-421.	2.7	4
303	On the Secondary Capacity of the Communication Protocols. , 2009, , .		4
304	Ripple design of LT codes for AWGN channel. , 2012, , .		4
305	Four-Way Relaying in Wireless Cellular Systems. IEEE Wireless Communications Letters, 2013, 2, 403-406.	5.0	4
306	Cognitive multiple-antenna network in outage-restricted primary system. , 2013, , .		4

#	Article	IF	Citations
307	Communication Schemes with Constrained Reordering of Resources. IEEE Transactions on Communications, 2013, 61, 2048-2059.	7.8	4
308	A novel robust communication algorithm for distributed secondary control of islanded MicroGrids. , 2013, , .		4
309	Coded splitting tree protocols. , 2013, , .		4
310	3D gesture recognition using passive RFID tags. , 2013, , .		4
311	Experimental Validation of a Distributed Algorithm for Dynamic Spectrum Access in Local Area Networks. , 2013, , .		4
312	SUNSEED &#x2014; An evolutionary path to smart grid comms over converged telco and energy provider networks. , 2014, , .		4
313	Estimation of Received Signal Strength Distribution for Smart Meters with Biased Measurement Data Set. IEEE Wireless Communications Letters, 2016, , 1-1.	5.0	4
314	Optimal Cognitive Access and Packet Selection Under a Primary ARQ Process via Chain Decoding. IEEE Transactions on Information Theory, 2016, 62, 7324-7357.	2.4	4
315	On Buffer-Aided Multiple-Access Relay Channel. IEEE Communications Letters, 2016, 20, 2051-2054.	4.1	4
316	Decoupled Uplink and Downlink in a Wireless System With Buffer-Aided Relaying. IEEE Transactions on Communications, 2017, 65, 1507-1517.	7.8	4
317	Minimizing Data Distortion of Periodically Reporting IoT Devices with Energy Harvesting. , 2017, , .		4
318	Preamble Detection in NB-IoT Random Access with Limited-Capacity Backhaul. , 2019, , .		4
319	Content-based Wake-up Control for Wireless Sensor Networks Exploiting Wake-up Receivers. , 2019, , .		4
320	Dynamic Time-Frequency Division Duplex. IEEE Transactions on Wireless Communications, 2020, 19, 3118-3132.	9.2	4
321	On Addressing Heterogeneity in Federated Learning for Autonomous Vehicles Connected to a Drone Orchestrator. Frontiers in Communications and Networks, 2021, 2, .	3.0	4
322	Stochastic Resource Optimization of Random Access for Transmitters With Correlated Activation. IEEE Communications Letters, 2021, 25, 3055-3059.	4.1	4
323	Inter-Plane Inter-Satellite Connectivity in LEO Constellations: Beam Switching vs. Beam Steering. , 2021, , .		4
324	Scheduling of Sensor Transmissions Based on Value of Information for Summary Statistics. IEEE Networking Letters, 2022, 4, 92-96.	1.9	4

#	Article	IF	Citations
325	A Contribution-Based Device Selection Scheme in Federated Learning. IEEE Communications Letters, 2022, 26, 2057-2061.	4.1	4
326	Dual-Polarized RSMA for Massive MIMO Systems. IEEE Wireless Communications Letters, 2022, 11, 2000-2004.	5.0	4
327	Blue-Park: Energy-efficient operation of Bluetooth networks using park mode. Computer Communications, 2006, 29, 3416-3424.	5.1	3
328	Cooperative media streaming using adaptive network compression. , 2008, , .		3
329	Two-way relaying with network coding for frequency-selective fading channels. , 2008, , .		3
330	Measuring the interference at an RFID tag: Where does it have an impact?. , 2011, , .		3
331	Coordination of regenerative relays and direct users in wireless cellular networks. , 2011, , .		3
332	Maximum Likelihood Approach for RFID Tag Set Cardinality Estimation with Detection Errors. Wireless Personal Communications, 2013, 71, 2587-2603.	2.7	3
333	Wireless four-way relaying using physical layer network coding with nested lattices. , 2013, , .		3
334	MIMO four-way relaying. , 2013, , .		3
335	Power Talk: How to Modulate Data over a DC Micro Grid Bus Using Power Electronics. , 2014, , .		3
336	Encoding of control information and data for downlink broadcast of short packets. , 2016, , .		3
337	The impact of beamforming and coordination on spectrum pooling in mmWave cellular networks. , 2016, , .		3
338	On a User-Centric Base Station Cooperation Scheme for Reliable Communications. , 2017, , .		3
339	Optimal Centralized Dynamic-TDD Scheduling Scheme for a General Network of Half-Duplex Nodes. , 2019, , .		3
340	Ultra-Reliable Communication for Services with Heterogeneous Latency Requirements. , 2019, , .		3
341	Outage Analysis of Downlink URLLC in Massive MIMO systems with Power Allocation. , 2019, , .		3
342	Enhancing Performance of Uplink URLLC Systems via Shared Diversity Transmissions and Multiple Antenna Processing. , 2019, , .		3

#	ARTICLE	IF	CITATIONS
343	Spectrum Sharing for Massive Access in Ultra-Narrowband IoT Systems. IEEE Journal on Selected Areas in Communications, 2021, 39, 866-880.	14.0	3
344	Delay and Peak-Age-of-Information of ALOHA Networks With Limited Retransmissions. IEEE Wireless Communications Letters, 2021, 10, 2328-2332.	5.0	3
345	Spectrum Slicing for Multiple Access Channels with Heterogeneous Services. Entropy, 2021, 23, 686.	2.2	3
346	Lifetime Maximization of an Internet of Things (IoT) Network Based on Graph Signal Processing. IEEE Communications Letters, 2021, 25, 2763-2767.	4.1	3
347	Design of AoI-Aware 5G Uplink Scheduler Using Reinforcement Learning. , 2021, , .		3
348	Latency and Peak Age of Information in Non-Preemptive Multipath Communications. IEEE Transactions on Communications, 2022, 70, 5336-5352.	7.8	3
349	Distributed Interference Cancellation for Dynamic Spectrum Sharing. , 2008, , .		2
350	Protocol coding with reordering of user resources: Capacity results for the Z-channel. , 2011, , .		2
351	Rate regions for coordination of Decode-and-Forward relays and direct users. , 2012, , .		2
352	Optimizing completion time and energy consumption in a bidirectional relay network. , 2012, , .		2
353	A framework for reliable reception of wireless metering data using protocol side information. , 2013, , .		2
354	Data recovery using side information from the wireless M-Bus protocol. , 2013, , .		2
355	Communication strategies for two models of discrete energy harvesting. , 2014, , .		2
356	HARQ buffer management: An information-theoretic view. , 2015, , .		2
357	Communication-Theoretic Model of Power Talk for a Single-Bus DC Microgrid. Information (Switzerland), 2016, 7, 18.	2.9	2
358	Distributed estimation of the operating state of a single-bus DC microgrid without an external communication interface. , 2016, , .		2
359	Comparison of strategies for model predictive control for home heating in future energy systems. , 2017, , .		2
360	Feedback halves the dispersion for some two-user broadcast channels with common message. , 2017, , .		2

#	Article	IF	Citations
361	User-centric resource allocation with two-dimensional reverse pricing in mobile communication services. Journal of Communications and Networks, 2019, 21, 148-157.	2.6	2
362	Repeat-Authenticate Scheme for Multicasting of Blockchain Information in IoT Systems. , 2019, , .		2
363	Fog-Based Detection for Random-Access IoT Networks with Per-Measurement Preambles. , 2020, , .		2
364	Witness-based Approach for Scaling Distributed Ledgers to Massive IoT Scenarios. , 2020, , .		2
365	Dual-Polarized IRSs in Uplink MIMO-NOMA Networks: An Interference Mitigation Approach. IEEE Wireless Communications Letters, 2021, , 1-1.	5.0	2
366	Containing Future Epidemics With Trustworthy Federated Systems for Ubiquitous Warning and Response. Frontiers in Communications and Networks, 2021, 2, .	3.0	2
367	Energy-Efficient Deployment of a Non-Orthogonal Multiple Access Unmanned Aerial System. , 2021, , .		2
368	Modemless Multiple Access Communications Over Powerlines for DC Microgrid Control. Lecture Notes in Computer Science, 2016, , 30-44.	1.3	2
369	Peak Age of Information Distribution Bounds for Multi-Connectivity Transmissions. , 2021, , .		2
370	Exploiting topology awareness for routing in LEO satellite constellations. , 2021, , .		2
371	Energy-Efficient Operation through Interference Avoidance for Interconnected Bluetooth WPANs. Wireless Personal Communications, 2005, 34, 163-187.	2.7	1
372	A symbotic perspective on low-cost cellular and multihop WLAN interworking solutions. IEEE Wireless Communications, 2005, 12, 4-10.	9.0	1
373	Wireless secrecy with infrastructure-aided cooperation. , 2008, , .		1
374	Uplink Random Access Scheme with Prioritized Orthogonal Layers for OFDMA CSI Feedback. , 2009, , .		1
375	Non-linear network coding in two-way relaying discrete channels. , 2009, , .		1
376	ARQ strategies for MIMO eigenmode transmission with adaptive modulation and coding. , 2009, , .		1
377	Protocol coding for reliable wireless bits under jamming: Concept and experimental validation. , 2011, , .		1
378	Opportunistic Interference Cancellation evaluation in cognitive radios under power control strategies. , 2013, , .		1

#	Article	IF	Citations
379	Blahut-Arimoto algorithm and code design for action-dependent source coding problems. , 2013, , .		1
380	Adaptive link selection and power allocation buffer-aided relay networks with multiple sources. , 2015, , .		1
381	Random access procedures and radio access network (RAN) overload control in standard and advanced long-term evolution (LTE and LTE-A) networks. , 2015, , 155-172.		1
382	Identifying randomly activated users via sign-compute-resolve on graphs. , 2016, , .		1
383	Towards self-sustainable power systems: DC MicroGrid optimization via power talk. , 2017, , .		1
384	Cellular 5G Access for Massive Internet of Things. , 0, , 380-401.		1
385	IEEE Access Special Section Editorial: Physical and Medium Access Control Layer Advances in 5G Wireless Networks. IEEE Access, 2017, 5, 27845-27849.	4.2	1
386	Statistical multiplexing of computations in C-RAN with tradeoffs in latency and energy. , 2017, , .		1
387	Social-Aware Content Delivery in Low Latency D2D Caching Networks. , 2019, , .		1
388	Slicing a single wireless collision channel among throughput- and timeliness-sensitive services. , 2021, , .		1
389	Performance Trade-Offs in Cyberâ€"Physical Control Applications With Multi-Connectivity. Frontiers in Communications and Networks, 2021, 2, .	3.0	1
390	Bifurcations and Chaos in Turbo Decoding Algorithms. Lecture Notes in Control and Information Sciences, 0, , 301-320.	1.0	1
391	RAN Slicing Performance Tradeoffs: Timing Versus Throughput Requirements. IEEE Open Journal of the Communications Society, 2022, 3, 622-640.	6.9	1
392	Unsourced Random Access With Authentication and Joint Downlink Acknowledgements. , 2021, , .		1
393	NOMA Power Minimization of Downlink Spectrum Slicing for eMBB and URLLC Users. , 2022, , .		1
394	Learning to Speak on Behalf of a Group: Medium Access Control for Sending a Shared Message. IEEE Communications Letters, 2022, 26, 1843-1847.	4.1	1
395	ARQ strategies for 2 ï¿½ 2 spatially multiplexed MIMO systems. , 2006, , .		0
396	Retransmission Strategies for Spatially Multiplexed 2ï¿½2 MIMO Systems. , 2007, , .		0

#	Article	IF	Citations
397	Signal Constellation Design for Symbol–Level Rate Adaptation in AWGN Channels. IEEE Communications Letters, 2007, 11, 836-838.	4.1	0
398	Wireless cooperative transmission. Journal of Communications and Networks, 2008, 10, 113-117.	2.6	0
399	Distributed processing for wireless networks. Journal of Communications and Networks, 2009, 11, 323-326.	2.6	0
400	Physical-Layer Network Coding for Wireless Cooperative Networks. Eurasip Journal on Wireless Communications and Networking, 2010, 2010, .	2.4	0
401	Probabilistic RFID tag detector model. , 2010, , .		0
402	Uplink Contention-Based CSI Feedback with Prioritized Layers for a Multi-Carrier System. IEEE Transactions on Wireless Communications, 2011, 10, 4282-4293.	9.2	0
403	Non-coherent and semi-coherent schemes for physical-layer wireless network coding. , 2011, , .		0
404	Beamforming design for coordinated direct and relay systems. , 2012, , .		0
405	Physical layer network coding: A cautionary story with interference and spatial reservation. , 2013, , .		0
406	Communication strategies with ON-OFF signaling for energy harvesting devices. , 2013, , .		0
407	Diversity-Multiplexing Trade-off for coordinated relayed uplink and direct downlink transmissions. , 2013, , .		0
408	Network-Assisted Device-to-Device (D2D) Direct Proximity Discovery with Underlay Communication. , 2014, , .		0
409	Emulating wired backhaul with wireless network coding. , 2014, , .		0
410	Probabilistic handshake in all-to-all broadcast coded slotted ALOHA. , 2015, , .		0
411	Relaying and wireless network coding. , 0, , 277-302.		0
412	Power Talk. , 2017, , 311-340.		0
413	Achieving Low Latency Two-Way Communication by Downlink and Uplink Decoupled Access. , 2018, , .		0
414	Wireless Mesh Networking with Devices Equipped with Multi-Connectivity. , 2020, , .		0

#	Article	IF	Citations
415	Hierarchical Resource Allocation: Balancing Throughput and Energy Efficiency in Wireless Systems. , 2021, , .		0
416	Energy-Efficient Distributed Estimation Using Content-Based Wake-Up in Wireless Sensor Networks. IEICE Transactions on Communications, 2021, E104.B, 391-400.	0.7	0
417	Hidden Markov Model-Based Encoding for Time-Correlated IoT Sources. IEEE Communications Letters, 2021, 25, 1463-1467.	4.1	0
418	Capacity of Remote Classification Over Wireless Channels. IEEE Transactions on Communications, 2021, 69, 4489-4503.	7.8	0
419	Inference over Wireless IoT Links with Importance-Filtered Updates. IEEE Transactions on Cognitive Communications and Networking, 2021, , 1-1.	7.9	0
420	Real-World Experimentation of Distributed DSA Network Algorithms. Advances in Wireless Technologies and Telecommunication Book Series, 2013, , 171-197.	0.4	0
421	Guest Editorial Advanced Signal Processing for Local and Private 5G Networks. IEEE Journal on Selected Topics in Signal Processing, 2022, 16, 2-6.	10.8	0
422	Editorial Issue on â€œInformation Theoretic Foundations of Future Communication Systemsâ€• IEEE Journal on Selected Areas in Information Theory, 2022, 3, 2-4.	2.5	0
423	Multiband Massive IoT: A Learning Approach to Infrastructure Deployment. IEEE Transactions on Wireless Communications, 2022, , 1-1.	9.2	0