

# Petar Popovski

## List of Publications by Year in descending order

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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	Optimizing Information Freshness via Multiuser Scheduling With Adaptive NOMA/OMA. IEEE Transactions on Wireless Communications, 2022, 21, 1766-1778.	9.2	17
2	Private 5G Networks: Concepts, Architectures, and Research Landscape. IEEE Journal on Selected Topics in Signal Processing, 2022, 16, 7-25.	10.8	56
3	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
4	Can Terahertz Provide High-Rate Reliable Low-Latency Communications for Wireless VR?. IEEE Internet of Things Journal, 2022, 9, 9712-9729.	8.7	39
5	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
6	Ground-Assisted Federated Learning in LEO Satellite Constellations. IEEE Wireless Communications Letters, 2022, 11, 717-721.	5.0	23
7	Query Age of Information: Freshness in Pull-Based Communication. IEEE Transactions on Communications, 2022, 70, 1606-1622.	7.8	27
8	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
9	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
10	Channel Estimation for RIS-Aided Multiuser Millimeter-Wave Systems. IEEE Transactions on Signal Processing, 2022, 70, 1478-1492.	5.3	72
11	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
12	RAN Slicing Performance Tradeoffs: Timing Versus Throughput Requirements. IEEE Open Journal of the Communications Society, 2022, 3, 622-640.	6.9	1
13	Reconfigurable Intelligent Surfaces: A signal processing perspective with wireless applications. IEEE Signal Processing Magazine, 2022, 39, 135-158.	5.6	152
14	Arctic Connectivity: A Frugal Approach to Infrastructural Development. Arctic, 2022, 75, 72-85.	0.4	5
15	Editorial Issue on "Information Theoretic Foundations of Future Communication Systems" IEEE Journal on Selected Areas in Information Theory, 2022, 3, 2-4.	2.5	0
16	Scheduling of Sensor Transmissions Based on Value of Information for Summary Statistics. IEEE Networking Letters, 2022, 4, 92-96.	1.9	4
17	NOMA Power Minimization of Downlink Spectrum Slicing for eMBB and URLLC Users. , 2022, , .		1
18	A Contribution-Based Device Selection Scheme in Federated Learning. IEEE Communications Letters, 2022, 26, 2057-2061.	4.1	4

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19	Multiband Massive IoT: A Learning Approach to Infrastructure Deployment. IEEE Transactions on Wireless Communications, 2022, , 1-1.	9.2	0
20	Common Message Acknowledgments: Massive ARQ Protocols for Wireless Access. IEEE Transactions on Communications, 2022, 70, 5258-5270.	7.8	5
21	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
22	Dual-Polarized RSMA for Massive MIMO Systems. IEEE Wireless Communications Letters, 2022, 11, 2000-2004.	5.0	4
23	Power Minimization of Downlink Spectrum Slicing for eMBB and URLLC Users. IEEE Transactions on Wireless Communications, 2022, 21, 11051-11065.	9.2	9
24	Latency and Peak Age of Information in Non-Preemptive Multipath Communications. IEEE Transactions on Communications, 2022, 70, 5336-5352.	7.8	3
25	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
26	Optimal Centralized Dynamic-Time-Division-Duplex. IEEE Transactions on Wireless Communications, 2021, 20, 28-39.	9.2	6
27	Intelligent Reflecting Surface Operation Under Predictable Receiver Mobility: A Continuous Time Propagation Model. IEEE Wireless Communications Letters, 2021, 10, 216-220.	5.0	51
28	Spectrum Sharing for Massive Access in Ultra-Narrowband IoT Systems. IEEE Journal on Selected Areas in Communications, 2021, 39, 866-880.	14.0	3
29	IRS-Assisted Massive MIMO-NOMA Networks: Exploiting Wave Polarization. IEEE Transactions on Wireless Communications, 2021, 20, 7166-7183.	9.2	29
30	Assessing Wireless Sensing Potential With Large Intelligent Surfaces. IEEE Open Journal of the Communications Society, 2021, 2, 934-947.	6.9	9
31	Delay and Peak-Age-of-Information of ALOHA Networks With Limited Retransmissions. IEEE Wireless Communications Letters, 2021, 10, 2328-2332.	5.0	3
32	Dual-Polarized IRSs in Uplink MIMO-NOMA Networks: An Interference Mitigation Approach. IEEE Wireless Communications Letters, 2021, , 1-1.	5.0	2
33	5G satellite networks for Internet of Things: Offloading and backhauling. International Journal of Satellite Communications and Networking, 2021, 39, 431-444.	1.8	10
34	Hierarchical Resource Allocation: Balancing Throughput and Energy Efficiency in Wireless Systems. , 2021, , .		0
35	Standalone Deployment of a Dynamic Drone Cell for Wireless Connectivity of Two Services. , 2021, , .		7
36	How URLLC Can Benefit From NOMA-Based Retransmissions. IEEE Transactions on Wireless Communications, 2021, 20, 1684-1699.	9.2	19

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37	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
38	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
39	Energy-Efficient Distributed Estimation Using Content-Based Wake-Up in Wireless Sensor Networks. IEEE Transactions on Communications, 2021, E104.B, 391-400.	0.7	0
40	Peak Age of Information Distribution for Edge Computing With Wireless Links. IEEE Transactions on Communications, 2021, 69, 3176-3191.	7.8	32
41	Hidden Markov Model-Based Encoding for Time-Correlated IoT Sources. IEEE Communications Letters, 2021, 25, 1463-1467.	4.1	0
42	Containing Future Epidemics With Trustworthy Federated Systems for Ubiquitous Warning and Response. Frontiers in Communications and Networks, 2021, 2, .	3.0	2
43	Spectrum Slicing for Multiple Access Channels with Heterogeneous Services. Entropy, 2021, 23, 686.	2.2	3
44	Energy-Efficient and Reliable IoT Access Without Radio Resource Reservation. IEEE Transactions on Green Communications and Networking, 2021, 5, 908-920.	5.5	7
45	Freshness on Demand: Optimizing Age of Information for the Query Process. , 2021, , .		8
46	Energy-Efficient Deployment of a Non-Orthogonal Multiple Access Unmanned Aerial System. , 2021, , .		2
47	Slicing a single wireless collision channel among throughput- and timeliness-sensitive services. , 2021, , .		1
48	Inter-Plane Inter-Satellite Connectivity in Dense LEO Constellations. IEEE Transactions on Wireless Communications, 2021, 20, 3430-3443.	9.2	41
49	On Addressing Heterogeneity in Federated Learning for Autonomous Vehicles Connected to a Drone Orchestrator. Frontiers in Communications and Networks, 2021, 2, .	3.0	4
50	Accelerated Randomized Methods for Receiver Design in Extra-Large Scale MIMO Arrays. IEEE Transactions on Vehicular Technology, 2021, 70, 6788-6799.	6.3	9
51	Capacity of Remote Classification Over Wireless Channels. IEEE Transactions on Communications, 2021, 69, 4489-4503.	7.8	0
52	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
53	Performance Trade-Offs in Cyber-Physical Control Applications With Multi-Connectivity. Frontiers in Communications and Networks, 2021, 2, .	3.0	1
54	Lifetime Maximization of an Internet of Things (IoT) Network Based on Graph Signal Processing. IEEE Communications Letters, 2021, 25, 2763-2767.	4.1	3

#	ARTICLE	IF	CITATIONS
55	Frequency-Mixing Intelligent Reflecting Surfaces for Nonlinear Wireless Propagation. IEEE Wireless Communications Letters, 2021, 10, 1672-1676.	5.0	10
56	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
57	Stochastic Resource Optimization of Random Access for Transmitters With Correlated Activation. IEEE Communications Letters, 2021, 25, 3055-3059.	4.1	4
58	Cost- and Energy-Efficient Aerial Communication Networks With Interleaved Hovering and Flying. IEEE Transactions on Vehicular Technology, 2021, 70, 9077-9087.	6.3	15
59	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
60	Inference over Wireless IoT Links with Importance-Filtered Updates. IEEE Transactions on Cognitive Communications and Networking, 2021, , 1-1.	7.9	0
61	Prediction of mmWave/THz Link Blockages Through Meta-Learning and Recurrent Neural Networks. IEEE Wireless Communications Letters, 2021, 10, 2815-2819.	5.0	12
62	How to Identify and Authenticate Users in Massive Unsourced Random Access. IEEE Communications Letters, 2021, 25, 3795-3799.	4.1	5
63	Peak Age of Information Distribution Bounds for Multi-Connectivity Transmissions. , 2021, , .		2
64	Reconfigurable, Intelligent, and Sustainable Wireless Environments for 6G Smart Connectivity. IEEE Communications Magazine, 2021, 59, 99-105.	6.1	113
65	Design of AoI-Aware 5G Uplink Scheduler Using Reinforcement Learning. , 2021, , .		3
66	Unsourced Random Access With Authentication and Joint Downlink Acknowledgements. , 2021, , .		1
67	Inter-Plane Inter-Satellite Connectivity in LEO Constellations: Beam Switching vs. Beam Steering. , 2021, , .		4
68	Exploiting topology awareness for routing in LEO satellite constellations. , 2021, , .		2
69	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
70	Fog-Based Detection for Random-Access IoT Networks with Per-Measurement Preambles. , 2020, , .		2
71	Witness-based Approach for Scaling Distributed Ledgers to Massive IoT Scenarios. , 2020, , .		2
72	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

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73	Low-Complexity Distributed XL-MIMO for Multiuser Detection. , 2020, , .		16
74	Reliability-Latency Performance of Frameless ALOHA With and Without Feedback. IEEE Transactions on Communications, 2020, 68, 6302-6316.	7.8	12
75	Trusted Wireless Monitoring Based on Distributed Ledgers over NB-IoT Connectivity. IEEE Communications Magazine, 2020, 58, 77-83.	6.1	17
76	LEO Small-Satellite Constellations for 5G and Beyond-5G Communications. IEEE Access, 2020, 8, 184955-184964.	4.2	108
77	Latency and timeliness in multi-hop satellite networks. , 2020, , .		24
78	Wireless Mesh Networking with Devices Equipped with Multi-Connectivity. , 2020, , .		0
79	Risk-Aware Optimization of Age of Information in the Internet of Things. , 2020, , .		10
80	Risk-Based Optimization of Virtual Reality over Terahertz Reconfigurable Intelligent Surfaces. , 2020, , .		42
81	Energy-Efficient 3-D Deployment of Aerial Access Points in a UAV Communication System. IEEE Communications Letters, 2020, 24, 2883-2887.	4.1	25
82	Antenna Selection for Improving Energy Efficiency in XL-MIMO Systems. IEEE Transactions on Vehicular Technology, 2020, 69, 13305-13318.	6.3	38
83	Traffic Prediction Based Fast Uplink Grant for Massive IoT. , 2020, , .		18
84	Energy Efficient Altitude Optimization of an Aerial Access Point. , 2020, , .		12
85	Semantic-Effectiveness Filtering and Control for Post-5G Wireless Connectivity. Journal of the Indian Institute of Science, 2020, 100, 435-443.	1.9	51
86	Communication Aspects of the Integration of Wireless IoT Devices with Distributed Ledger Technology. IEEE Network, 2020, 34, 47-53.	6.9	26
87	Dynamic Time-Frequency Division Duplex. IEEE Transactions on Wireless Communications, 2020, 19, 3118-3132.	9.2	4
88	Machine Learning Methods for Monitoring of Quasiperiodic Traffic in Massive IoT Networks. IEEE Internet of Things Journal, 2020, 7, 7368-7376.	8.7	6
89	Wireless Networked Control Systems With Coding-Free Data Transmission for Industrial IoT. IEEE Internet of Things Journal, 2020, 7, 1788-1801.	8.7	26
90	Achieving Fair Random Access Performance in Massive MIMO Crowded Machine-Type Networks. IEEE Wireless Communications Letters, 2020, 9, 503-507.	5.0	15

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91	Robust High-Rate Secondary Control of Microgrids With Mitigation of Communication Impairments. IEEE Transactions on Power Electronics, 2020, 35, 12486-12496.	7.9	30
92	Wireless Control of Autonomous Guided Vehicle using Reinforcement Learning. , 2020, , .		11
93	Age of Information in Multi-hop Networks with Priorities. , 2020, , .		14
94	Capacity Analysis of Coordinated Multipoint Reception for mmWave Uplink With Blockages. IEEE Transactions on Vehicular Technology, 2020, 69, 16299-16303.	6.3	15
95	Massive MIMO for Internet of Things (IoT) connectivity. Physical Communication, 2019, 37, 100859.	2.1	77
96	Minimizing the Age of Information From Sensors With Common Observations. IEEE Wireless Communications Letters, 2019, 8, 1390-1393.	5.0	34
97	Analysis of LoRaWAN Uplink with Multiple Demodulating Paths and Capture Effect. , 2019, , .		23
98	Improving Spectral Efficiency in URLLC via NOMA-Based Retransmissions. , 2019, , .		14
99	Preamble Detection in NB-IoT Random Access with Limited-Capacity Backhaul. , 2019, , .		4
100	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
101	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
102	Wireless Access in Ultra-Reliable Low-Latency Communication (URLLC). IEEE Transactions on Communications, 2019, 67, 5783-5801.	7.8	282
103	Joint Optimization of Altitude and Transmission Direction in UAV-Based Two-Way Communication. IEEE Wireless Communications Letters, 2019, 8, 984-987.	5.0	9
104	Delay and Communication Tradeoffs for Blockchain Systems With Lightweight IoT Clients. IEEE Internet of Things Journal, 2019, 6, 2354-2365.	8.7	90
105	Wireless Channel Modeling Perspectives for Ultra-Reliable Communications. IEEE Transactions on Wireless Communications, 2019, 18, 2229-2243.	9.2	25
106	Guest Editorial Ultra-Reliable Low-Latency Communications in Wireless Networks. IEEE Journal on Selected Areas in Communications, 2019, 37, 701-704.	14.0	11
107	A Statistical Learning Approach to Ultra-Reliable Low Latency Communication. IEEE Transactions on Communications, 2019, 67, 5153-5166.	7.8	46
108	Non-Orthogonal Multiplexing of Ultra-Reliable and Broadband Services in Fog-Radio Architectures. IEEE Access, 2019, 7, 13035-13049.	4.2	38

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109	Content-based Wake-up Control for Wireless Sensor Networks Exploiting Wake-up Receivers. , 2019, , .		4
110	Optimal Centralized Dynamic-TDD Scheduling Scheme for a General Network of Half-Duplex Nodes. , 2019, , .		3
111	Ultra-Reliable Communication for Services with Heterogeneous Latency Requirements. , 2019, , .		3
112	Massive Random Access with Common Alarm Messages. , 2019, , .		15
113	Social-Aware Content Delivery in Low Latency D2D Caching Networks. , 2019, , .		1
114	Deep Learning for Synchronization and Channel Estimation in NB-IoT Random Access Channel. , 2019, , .		7
115	Reliability and Error Burst Length Analysis of Wireless Multi-Connectivity. , 2019, , .		5
116	Repeat-Authenticate Scheme for Multicasting of Blockchain Information in IoT Systems. , 2019, , .		2
117	Inter-Plane Satellite Matching in Dense LEO Constellations. , 2019, , .		9
118	Outage Analysis of Downlink URLLC in Massive MIMO systems with Power Allocation. , 2019, , .		3
119	Real-Time Wireless Networked Control Systems with Coding-Free Data Transmission. , 2019, , .		7
120	Enhancing Performance of Uplink URLLC Systems via Shared Diversity Transmissions and Multiple Antenna Processing. , 2019, , .		3
121	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
122	Non-Orthogonal Contention-Based Access for URLLC Devices with Frequency Diversity. , 2019, , .		7
123	Software-Defined Microgrid Control for Resilience Against Denial-of-Service Attacks. IEEE Transactions on Smart Grid, 2019, 10, 5258-5268.	9.0	45
124	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
125	Wireless Access for Ultra-Reliable Low-Latency Communication: Principles and Building Blocks. IEEE Network, 2018, 32, 16-23.	6.9	268
126	Ultra-Reliable Low Latency Communication Using Interface Diversity. IEEE Transactions on Communications, 2018, 66, 1322-1334.	7.8	104



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127	Uplink Transmissions in URLLC Systems With Shared Diversity Resources. IEEE Wireless Communications Letters, 2018, 7, 590-593.	5.0	30
128	Fifth-Generation Control Channel Design: Achieving Ultrareliable Low-Latency Communications. IEEE Vehicular Technology Magazine, 2018, 13, 84-93.	3.4	23
129	Decentralized DC Microgrid Monitoring and Optimization via Primary Control Perturbations. IEEE Transactions on Signal Processing, 2018, 66, 3280-3295.	5.3	7
130	Joint Compression, Channel Coding, and Retransmission for Data Fidelity With Energy Harvesting. IEEE Transactions on Communications, 2018, 66, 1425-1439.	7.8	9
131	Short Packet Structure for Ultra-Reliable Machine-Type Communication: Tradeoff between Detection and Decoding. , 2018, , .		18
132	Ultra Reliable Low Latency Communications in Massive Multi-Antenna Systems. , 2018, , .		12
133	Blockchain-Based and Multi-Layered Electricity Imbalance Settlement Architecture. , 2018, , .		11
134	Common-Message Broadcast Channels With Feedback in the Nonasymptotic Regime: Stop Feedback. IEEE Transactions on Information Theory, 2018, 64, 7686-7718.	2.4	6
135	Coexistence of URLLC and eMBB Services in the C-RAN Uplink: An Information-Theoretic Study. , 2018, , .		47
136	Latency-Energy Tradeoff Based on Channel Scheduling and Repetitions in NB-IoT Systems. , 2018, , .		19
137	Common-Message Broadcast Channels With Feedback in the Nonasymptotic Regime: Full Feedback. IEEE Transactions on Information Theory, 2018, 64, 7719-7741.	2.4	5
138	Achieving Low Latency Two-Way Communication by Downlink and Uplink Decoupled Access. , 2018, , .		0
139	5G Wireless Network Slicing for eMBB, URLLC, and mMTC: A Communication-Theoretic View. IEEE Access, 2018, 6, 55765-55779.	4.2	582
140	An Experimental Study of Massive MIMO Properties in 5G Scenarios. IEEE Transactions on Antennas and Propagation, 2018, 66, 7206-7215.	5.1	54
141	Coded Pilot Random Access for Massive MIMO Systems. IEEE Transactions on Wireless Communications, 2018, 17, 8035-8046.	9.2	36
142	Random Access Schemes in Wireless Systems with Correlated User Activity. , 2018, , .		22
143	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
144	Towards Massive Connectivity Support for Scalable mMTC Communications in 5G Networks. IEEE Access, 2018, 6, 28969-28992.	4.2	188

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145	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
146	Sign-Compute-Resolve for Tree Splitting Random Access. IEEE Transactions on Information Theory, 2018, 64, 5261-5276.	2.4	12
147	Analysis of the Communication Traffic for Blockchain Synchronization of IoT Devices. , 2018, , .		51
148	On Distributed Dynamic-TDD Schemes for Base Stations with Decoupled Uplink-Downlink Transmissions. , 2018, , .		9
149	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
150	Generalized HARQ Protocols with Delayed Channel State Information and Average Latency Constraints. IEEE Transactions on Information Theory, 2018, 64, 1262-1280.	2.4	10
151	Reducing the carbon footprint of house heating through model predictive control “A simulation study in Danish conditions. Sustainable Cities and Society, 2018, 42, 558-573.	10.4	29
152	Decoupled Uplink and Downlink in a Wireless System With Buffer-Aided Relaying. IEEE Transactions on Communications, 2017, 65, 1507-1517.	7.8	4
153	Downlink Transmission of Short Packets: Framing and Control Information Revisited. IEEE Transactions on Communications, 2017, 65, 2048-2061.	7.8	44
154	Smart Grids. IEEE Wireless Communications, 2017, 24, 8-9.	9.0	11
155	A Novel Receiver Design with Joint Coherent and Non-Coherent Processing. IEEE Transactions on Communications, 2017, , 1-1.	7.8	11
156	Physical-Layer Security With Full-Duplex Transceivers and Multiuser Receiver at Eve. IEEE Transactions on Communications, 2017, 65, 4392-4405.	7.8	33
157	Random Access Protocols for Massive MIMO. IEEE Communications Magazine, 2017, 55, 216-222.	6.1	72
158	A Random Access Protocol for Pilot Allocation in Crowded Massive MIMO Systems. IEEE Transactions on Wireless Communications, 2017, 16, 2220-2234.	9.2	108
159	Random Access in C-RAN for User Activity Detection With Limited-Capacity Fronthaul. IEEE Signal Processing Letters, 2017, 24, 17-21.	3.6	33
160	Resilient and Secure Low-Rate Connectivity for Smart Energy Applications through Power Talk in DC Microgrids. , 2017, 55, 83-89.		6
161	Power Talk. , 2017, , 311-340.		0
162	Revisiting frequency reuse towards supporting ultra-reliable ubiquitous-rate communication. , 2017, , .		9

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163	Towards self-sustainable power systems: DC MicroGrid optimization via power talk. , 2017, , .		1
164	Comparison of strategies for model predictive control for home heating in future energy systems. , 2017, , .		2
165	Wirelessly Powered Communication Networks With Short Packets. IEEE Transactions on Communications, 2017, 65, 5529-5543.	7.8	34
166	Data Aggregation and Packet Bundling of Uplink Small Packets for Monitoring Applications in LTE. IEEE Network, 2017, 31, 32-38.	6.9	13
167	Analysis of Latency and MAC-Layer Performance for Class A LoRaWAN. IEEE Wireless Communications Letters, 2017, 6, 566-569.	5.0	81
168	Minimizing Data Distortion of Periodically Reporting IoT Devices with Energy Harvesting. , 2017, , .		4
169	Anti-jamming strategy for distributed microgrid control based on Power Talk communication. , 2017, , .		7
170	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
171	Delay Minimization in Real-Time Communications With Joint Buffering and Coding. IEEE Communications Letters, 2017, 21, 52-55.	4.1	5
172	Broadcast Coded Slotted ALOHA: A Finite Frame Length Analysis. IEEE Transactions on Communications, 2017, 65, 651-662.	7.8	42
173	Random Pilot and Data Access in Massive MIMO for Machine-Type Communications. IEEE Transactions on Wireless Communications, 2017, 16, 7703-7717.	9.2	60
174	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
175	Grant-Free Radio Access for Short-Packet Communications over 5G Networks. , 2017, , .		62
176	Distributed proportional-fairness control in microgrids via blockchain smart contracts. , 2017, , .		46
177	Topology identification for multiple-bus DC MicroGrids via primary control perturbations. , 2017, , .		9
178	Coverage and Rate of Downlink Sequence Transmissions With Reliability Guarantees. IEEE Wireless Communications Letters, 2017, 6, 722-725.	5.0	5
179	User activity detection in massive random access: Compressed sensing vs. coded slotted ALOHA. , 2017, , .		14
180	Feedback halves the dispersion for some two-user broadcast channels with common message. , 2017, , .		2

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181	Statistical multiplexing of computations in C-RAN with tradeoffs in latency and energy. , 2017, , .		1
182	Optimized Interface Diversity for Ultra-Reliable Low Latency Communication (URLLC). , 2017, , .		10
183	Delivery Latency Trade-Offs of Heterogeneous Contents in Fog Radio Access Networks. , 2017, , .		8
184	Frameless ALOHA with Reliability-Latency Guarantees. , 2017, , .		12
185	Stochastic Geometric Coverage Analysis in mmWave Cellular Networks with a Realistic Channel Model. , 2017, , .		12
186	Secure and robust authentication for DC MicroGrids based on power talk communication. , 2017, , .		5
187	Massive machine-type communication (mMTC) access with integrated authentication. , 2017, , .		20
188	On a User-Centric Base Station Cooperation Scheme for Reliable Communications. , 2017, , .		3
189	Communication-Theoretic Model of Power Talk for a Single-Bus DC Microgrid. Information (Switzerland), 2016, 7, 18.	2.9	2
190	Encoding of control information and data for downlink broadcast of short packets. , 2016, , .		3
191	Distributed estimation of the operating state of a single-bus DC microgrid without an external communication interface. , 2016, , .		2
192	On the Impact of Wireless Jamming on the Distributed Secondary Microgrid Control. , 2016, , .		14
193	The impact of beamforming and coordination on spectrum pooling in mmWave cellular networks. , 2016, , .		3
194	Random Access for Machine-Type Communication Based on Bloom Filtering. , 2016, , .		18
195	On Wirelessly Powered Communications with Short Packets. , 2016, , .		7
196	Power Talk for Multibus DC MicroGrids: Creating and Optimizing Communication Channels. , 2016, , .		7
197	Estimation of Received Signal Strength Distribution for Smart Meters with Biased Measurement Data Set. IEEE Wireless Communications Letters, 2016, , 1-1.	5.0	4
198	The METIS 5G System Concept: Meeting the 5G Requirements. , 2016, 54, 132-139.		144

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199	Reliable Uplink Communication Through Double Association in Wireless Heterogeneous Networks. IEEE Wireless Communications Letters, 2016, 5, 312-315.	5.0	12
200	Why to decouple the uplink and downlink in cellular networks and how to do it. , 2016, 54, 110-117.		155
201	Full Duplex emulation via spatial separation of Half Duplex nodes in a planar cellular network. , 2016, , .		10
202	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
203	Latency analysis of systems with multiple interfaces for ultra-reliable M2M communication. , 2016, , .		15
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