

# Lajos Hanzo

## List of Publications by Year in descending order

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1,936  
papers

64,711  
citations

1697

104  
h-index

2812

191  
g-index

1970  
all docs

1970  
docs citations

1970  
times ranked

22049  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Data-driven Base Station Sleeping Strategy Based on Traffic Prediction. IEEE Transactions on Network Science and Engineering, 2024, , 1-1.	4.1	18
2	Weighted Sum Rate Maximization of the mmWave Cell-Free MIMO Downlink Relying on Hybrid Precoding. IEEE Transactions on Wireless Communications, 2022, 21, 2547-2560.	6.1	13
3	Short-Packet Amplify-and-Forward Relaying for the Internet-of-Things in the Face of Imperfect Channel Estimation and Hardware Impairments. IEEE Transactions on Green Communications and Networking, 2022, 6, 20-36.	3.5	15
4	Deep-Learning-Aided Packet Routing in Aeronautical <i>Ad Hoc</i> Networks Relying on Real Flight Data: From Single-Objective to Near-Pareto Multiobjective Optimization. IEEE Internet of Things Journal, 2022, 9, 4598-4614.	5.5	12
5	Beamforming Design Based on Two-Stage Stochastic Optimization for RIS-Assisted Over-the-Air Computation Systems. IEEE Internet of Things Journal, 2022, 9, 5474-5488.	5.5	12
6	Maximizing the Geometric Mean of User-Rates to Improve Rate-Fairness: Proper vs. Improper Gaussian Signaling. IEEE Transactions on Wireless Communications, 2022, 21, 295-309.	6.1	28
7	Bayesian Learning Aided Simultaneous Row and Group Sparse Channel Estimation in Orthogonal Time Frequency Space Modulated MIMO Systems. IEEE Transactions on Communications, 2022, 70, 635-648.	4.9	22
8	Compact User-Specific Reconfigurable Intelligent Surfaces for Uplink Transmission. IEEE Transactions on Communications, 2022, 70, 680-692.	4.9	19
9	Direct Quantum Communications in the Presence of Realistic Noisy Entanglement. IEEE Transactions on Communications, 2022, 70, 469-484.	4.9	16
10	Deep Learning-Aided Optical IM/DD OFDM Approaches the Throughput of RF-OFDM. IEEE Journal on Selected Areas in Communications, 2022, 40, 212-226.	9.7	9
11	On the Physical Layer Security of Untrusted Millimeter Wave Relaying Networks: A Stochastic Geometry Approach. IEEE Transactions on Information Forensics and Security, 2022, 17, 53-68.	4.5	21
12	RIS-Aided AANETs: Security Maximization Relying on Unsupervised Projection-Based Neural Networks. IEEE Transactions on Vehicular Technology, 2022, 71, 2214-2219.	3.9	2
13	Deep Learning Aided Physical-Layer Security: The Security Versus Reliability Trade-Off. IEEE Transactions on Cognitive Communications and Networking, 2022, 8, 442-453.	4.9	4
14	Generalized Approximate Message Passing Equalization for Multi-Carrier Faster-Than-Nyquist Signaling. IEEE Transactions on Vehicular Technology, 2022, 71, 3309-3314.	3.9	9
15	MIMO Assisted Networks Relying on Intelligent Reflective Surfaces: A Stochastic Geometry Based Analysis. IEEE Transactions on Vehicular Technology, 2022, 71, 571-582.	3.9	16
16	Unsourced Massive Random Access Scheme Exploiting Reed-Muller Sequences. IEEE Transactions on Communications, 2022, 70, 1290-1303.	4.9	7
17	Optimization of the Power-to-Velocity Ratio in the Downlink of Vehicular Networks. IEEE Transactions on Vehicular Technology, 2022, 71, 557-570.	3.9	1
18	Evolutionary Game Based Strategy Selection for Hybrid V2V Communications. IEEE Transactions on Vehicular Technology, 2022, 71, 2128-2133.	3.9	8

#	ARTICLE	IF	CITATIONS
19	Relay-Aided Multi-User OFDM Relying on Joint Wireless Power Transfer and Self-Interference Recycling. IEEE Transactions on Communications, 2022, 70, 291-305.	4.9	4
20	RIS-Aided Hybrid Massive MIMO Systems Relying on Adaptive-Resolution ADCs: Robust Beamforming Design and Resource Allocation. IEEE Transactions on Vehicular Technology, 2022, 71, 3281-3286.	3.9	9
21	Low-Complexity Iterative Detection for Dual-Mode Index Modulation in Dispersive Nonlinear Satellite Channels. IEEE Transactions on Communications, 2022, 70, 1261-1275.	4.9	2
22	Low-Complexity Channel Estimation and Passive Beamforming for RIS-Assisted MIMO Systems Relying on Discrete Phase Shifts. IEEE Transactions on Communications, 2022, 70, 1245-1260.	4.9	61
23	Quantum Error Mitigation Relying on Permutation Filtering. IEEE Transactions on Communications, 2022, 70, 1927-1942.	4.9	8
24	Deep Learning-Assisted Demodulation for TeraHertz Communications Under Hybrid Distortions. IEEE Communications Letters, 2022, 26, 325-329.	2.5	3
25	Low-Complexity Improved-Rate Generalised Spatial Modulation: Bit-to-Symbol Mapping, Detection and Performance Analysis. IEEE Transactions on Vehicular Technology, 2022, 71, 1060-1065.	3.9	5
26	Machine-Learning-Aided Optical OFDM for Intensity Modulated Direct Detection. Journal of Lightwave Technology, 2022, 40, 2357-2369.	2.7	5
27	Multi-Pair Two-Way Massive MIMO DF Relaying Over Rician Fading Channels Under Imperfect CSI. IEEE Wireless Communications Letters, 2022, 11, 225-229.	3.2	3
28	Secure Routing in Multihop Ad-Hoc Networks With SRR-Based Reinforcement Learning. IEEE Wireless Communications Letters, 2022, 11, 362-366.	3.2	3
29	Age of Information in Energy Harvesting Aided Massive Multiple Access Networks. IEEE Journal on Selected Areas in Communications, 2022, 40, 1441-1456.	9.7	84
30	Faster-Than-Nyquist Asynchronous NOMA Outperforms Synchronous NOMA. IEEE Journal on Selected Areas in Communications, 2022, 40, 1128-1145.	9.7	17
31	Reconfigurable Intelligent Surface Assisted Multi-Carrier Wireless Systems for Doubly Selective High-Mobility Rician Channels. IEEE Transactions on Vehicular Technology, 2022, 71, 4023-4041.	3.9	21
32	The Evolution of Quantum Key Distribution Networks: On the Road to the Qinternet. IEEE Communications Surveys and Tutorials, 2022, 24, 839-894.	24.8	106
33	Massive Access of Static and Mobile Users via Reconfigurable Intelligent Surfaces: Protocol Design and Performance Analysis. IEEE Journal on Selected Areas in Communications, 2022, 40, 1253-1269.	9.7	20
34	Channel Estimation for Hybrid Massive MIMO Systems With Adaptive-Resolution ADCs. IEEE Transactions on Communications, 2022, 70, 2131-2146.	4.9	1
35	RIS-Aided Zero-Forcing and Regularized Zero-Forcing Beamforming in Integrated Information and Energy Delivery. IEEE Transactions on Wireless Communications, 2022, 21, 5500-5513.	6.1	2
36	Joint Task Offloading and Caching for Massive MIMO-Aided Multi-Tier Computing Networks. IEEE Transactions on Communications, 2022, 70, 1820-1833.	4.9	32

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37	Joint Training of the Superimposed Direct and Reflected Links in Reconfigurable Intelligent Surface Assisted Multiuser Communications. IEEE Transactions on Green Communications and Networking, 2022, 6, 739-754.	3.5	19
38	Low-Complexity Layered ACO-OFDM for Power-Efficient Visible Light Communications. IEEE Transactions on Green Communications and Networking, 2022, 6, 1780-1792.	3.5	7
39	Joint Hybrid and Passive RIS-Assisted Beamforming for mmWave MIMO Systems Relying on Dynamically Configured Subarrays. IEEE Internet of Things Journal, 2022, 9, 13913-13926.	5.5	28
40	The Accuracy vs. Sampling Overhead Trade-off in Quantum Error Mitigation Using Monte Carlo-Based Channel Inversion. IEEE Transactions on Communications, 2022, 70, 1943-1956.	4.9	1
41	3D UAV Trajectory and Data Collection Optimisation Via Deep Reinforcement Learning. IEEE Transactions on Communications, 2022, 70, 2358-2371.	4.9	51
42	Near Interference-Free Space-Time User Scheduling for mmWave Cellular Network. IEEE Transactions on Wireless Communications, 2022, 21, 6372-6386.	6.1	4
43	Reconfigurable Intelligent Surface Deployment for Blind Zone Improvement in mmWave Wireless Networks. IEEE Communications Letters, 2022, 26, 1423-1427.	2.5	7
44	Securing the UAV-Aided Non-Orthogonal Downlink in the Face of Colluding Eavesdroppers. IEEE Transactions on Vehicular Technology, 2022, 71, 6837-6842.	3.9	8
45	Detection of Spoofing Attacks in Aeronautical Ad-Hoc Networks Using Deep Autoencoders. IEEE Transactions on Information Forensics and Security, 2022, 17, 1010-1023.	4.5	5
46	Reconfigurable Intelligent Surfaces Relying on Non-Diagonal Phase Shift Matrices. IEEE Transactions on Vehicular Technology, 2022, 71, 6367-6383.	3.9	19
47	Cooperative 3D Beamforming for Small-Cell and Cell-Free 6G Systems. IEEE Transactions on Vehicular Technology, 2022, 71, 5023-5036.	3.9	2
48	Edge Intelligence for Mission-Critical 6G Services in Space-Air-Ground Integrated Networks. IEEE Network, 2022, 36, 181-189.	4.9	27
49	Centralized and Decentralized Channel Estimation in FDD Multi-User Massive MIMO Systems. IEEE Transactions on Vehicular Technology, 2022, 71, 7325-7342.	3.9	3
50	Unity-Rate Coding Improves the Iterative Detection Convergence of Autoencoder-Aided Communication Systems. IEEE Transactions on Vehicular Technology, 2022, 71, 5037-5047.	3.9	2
51	Deep Reinforcement Learning Aided Platoon Control Relying on V2X Information. IEEE Transactions on Vehicular Technology, 2022, 71, 5811-5826.	3.9	11
52	A Soft-Input Soft-Output Polar Decoding Algorithm for Turbo-Detection in MIMO-Aided 5G New Radio. IEEE Transactions on Vehicular Technology, 2022, 71, 6454-6468.	3.9	7
53	NOMA-Aided Joint Radar and Multicast-Unicast Communication Systems. IEEE Journal on Selected Areas in Communications, 2022, 40, 1978-1992.	9.7	34
54	The Achievable Rate Analysis of Generalized Quadrature Spatial Modulation and a Pair of Low-Complexity Detectors. IEEE Transactions on Vehicular Technology, 2022, 71, 5203-5215.	3.9	6

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55	Channel Modeling for Orbital Angular Momentum Based Underwater Wireless Optical Systems. IEEE Transactions on Vehicular Technology, 2022, 71, 5880-5895.	3.9	20
56	Autoencoder with fitting network for Terahertz wireless communications: A deep learning approach. China Communications, 2022, 19, 172-180.	2.0	5
57	Turbo Detection Aided Autoencoder for Multicarrier Wireless Systems: Integrating Deep Learning Into Channel Coded Systems. IEEE Transactions on Cognitive Communications and Networking, 2022, 8, 600-614.	4.9	7
58	Physical Layer Security of Intelligent Reflective Surface Aided NOMA Networks. IEEE Transactions on Vehicular Technology, 2022, 71, 7821-7834.	3.9	30
59	Simultaneously Transmitting and Reflecting Intelligent Omni-Surfaces: Modeling and Implementation. IEEE Vehicular Technology Magazine, 2022, 17, 46-54.	2.8	28
60	Collaborative Beamforming Aided Fog Radio Access Networks. IEEE Transactions on Vehicular Technology, 2022, 71, 7805-7820.	3.9	3
61	Deep Learning Aided Routing for Space-Air-Ground Integrated Networks Relying on Real Satellite, Flight, and Shipping Data. IEEE Wireless Communications, 2022, 29, 177-184.	6.6	12
62	Reconfigurable Intelligent Surface (RIS)-Aided Vehicular Networks: Their Protocols, Resource Allocation, and Performance. IEEE Vehicular Technology Magazine, 2022, 17, 26-36.	2.8	23
63	Sparse Bayesian Learning Aided Estimation of Doubly-Selective MIMO Channels for Filter Bank Multicarrier Systems. IEEE Transactions on Communications, 2022, 70, 4236-4249.	4.9	5
64	Dual-Frequency Quantum Phase Estimation Mitigates the Spectral Leakage of Quantum Algorithms. IEEE Signal Processing Letters, 2022, 29, 1222-1226.	2.1	4
65	Editorial A Decade of Green Radio and the Path to "Net Zero": A United Kingdom Perspective. IEEE Transactions on Green Communications and Networking, 2022, 6, 657-664.	3.5	3
66	Multibeam Joint Communication and Radar Sensing: Beamforming Design and Interference Cancellation. IEEE Communications Letters, 2022, 26, 1888-1892.	2.5	2
67	Joint Bayesian Channel Estimation and Data Detection for OTFS Systems in LEO Satellite Communications. IEEE Transactions on Communications, 2022, 70, 4386-4399.	4.9	4
68	DeepAntijam: Stackelberg Game-Oriented Secure Transmission via Deep Reinforcement Learning. IEEE Communications Letters, 2022, 26, 1984-1988.	2.5	1
69	Simultaneous Multi-Beam Training for Millimeter-Wave Communication System. IEEE Transactions on Vehicular Technology, 2022, 71, 10631-10645.	3.9	0
70	Finite-Resolution Digital Beamforming for Multi-User Millimeter-Wave Networks. IEEE Transactions on Vehicular Technology, 2022, 71, 9647-9662.	3.9	4
71	Quantum Approximate Optimization Algorithm Based Maximum Likelihood Detection. IEEE Transactions on Communications, 2022, 70, 5386-5400.	4.9	4
72	Joint Hybrid 3D Beamforming Relying on Sensor-Based Training for Reconfigurable Intelligent Surface Aided TeraHertz-Based Multiuser Massive MIMO Systems. IEEE Sensors Journal, 2022, 22, 14540-14552.	2.4	9

#	ARTICLE	IF	CITATIONS
73	OTFS Transceiver Design and Sparse Doubly-Selective CSI Estimation in Analog and Hybrid Beamforming Aided mmWave MIMO Systems. IEEE Transactions on Wireless Communications, 2022, 21, 10902-10917.	6.1	5
74	Joint Beamforming Aided Over-the-Air Computation Systems Relying on Both BS-Side and User-Side Reconfigurable Intelligent Surfaces. IEEE Transactions on Wireless Communications, 2022, 21, 10766-10779.	6.1	1
75	An Evolutionary Pathway for the Quantum Internet Relying on Secure Classical Repeaters. IEEE Network, 2022, 36, 82-88.	4.9	39
76	Energy-Efficient Multi-Cell Massive MIMO Subject to Minimum User-Rate Constraints. IEEE Transactions on Communications, 2021, 69, 914-928.	4.9	15
77	Dynamic Hybrid Precoding Relying on Twin-Resolution Phase Shifters in Millimeter-Wave Communication Systems. IEEE Transactions on Wireless Communications, 2021, 20, 812-826.	6.1	13
78	Physical-Layer Secret Key Generation via CQI-Mapped Spatial Modulation in Multi-Hop Wiretap Ad-Hoc Networks. IEEE Transactions on Information Forensics and Security, 2021, 16, 1322-1334.	4.5	19
79	Dynamic Aerial Base Station Placement for Minimum-Delay Communications. IEEE Internet of Things Journal, 2021, 8, 1623-1635.	5.5	17
80	Multi-Agent Deep Reinforcement Learning-Based Trajectory Planning for Multi-UAV Assisted Mobile Edge Computing. IEEE Transactions on Cognitive Communications and Networking, 2021, 7, 73-84.	4.9	196
81	Distributed Parameter Detection in Massive MIMO Wireless Sensor Networks Relying on Imperfect CSI. IEEE Transactions on Wireless Communications, 2021, 20, 506-519.	6.1	6
82	UAV-Aided Two-Way Multi-User Relaying. IEEE Transactions on Communications, 2021, 69, 246-260.	4.9	22
83	Towards 6G wireless communication networks: vision, enabling technologies, and new paradigm shifts. Science China Information Sciences, 2021, 64, 1.	2.7	858
84	Fifty Years of Noise Modeling and Mitigation in Power-Line Communications. IEEE Communications Surveys and Tutorials, 2021, 23, 41-69.	24.8	23
85	Artificial Intelligence Aided Next-Generation Networks Relying on UAVs. IEEE Wireless Communications, 2021, 28, 120-127.	6.6	39
86	Hybrid Precoding for WideBand Millimeter Wave MIMO Systems in the Face of Beam Squint. IEEE Transactions on Wireless Communications, 2021, 20, 1847-1860.	6.1	41
87	Joint Transmit Precoding and Reconfigurable Intelligent Surface Phase Adjustment: A Decomposition-Aided Channel Estimation Approach. IEEE Transactions on Communications, 2021, 69, 1228-1243.	4.9	76
88	Bayesian Learning-Based Doubly-Selective Sparse Channel Estimation for Millimeter Wave Hybrid MIMO-FBMC-OQAM Systems. IEEE Transactions on Communications, 2021, 69, 529-543.	4.9	20
89	Intelligent Reflecting Surface Assisted Beam Index-Modulation for Millimeter Wave Communication. IEEE Transactions on Wireless Communications, 2021, 20, 983-996.	6.1	36
90	Fast Block LMS Based Estimation of Angularly Sparse Channels for Single-Carrier Wideband Millimeter Wave Hybrid MIMO Systems. IEEE Transactions on Vehicular Technology, 2021, 70, 666-681.	3.9	14

#	ARTICLE	IF	CITATIONS
91	Matrix-Monotonic Optimization Part II: Multi-Variable Optimization. IEEE Transactions on Signal Processing, 2021, 69, 179-194.	3.2	14
92	A Unified MIMO Optimization Framework Relying on the KKT Conditions. IEEE Transactions on Communications, 2021, 69, 7251-7268.	4.9	7
93	Internet of Underwater Things and Big Marine Data Analytics—A Comprehensive Survey. IEEE Communications Surveys and Tutorials, 2021, 23, 904-956.	24.8	192
94	Analog Radio-over-Fiber-Aided Optical-Domain MIMO Signal Processing for High-Performance Low-Cost Radio Access Networks. IEEE Communications Magazine, 2021, 59, 126-132.	4.9	6
95	Joint User Scheduling and Resource Allocation for Millimeter Wave Systems Relying on Adaptive-Resolution ADCs. IEEE Transactions on Vehicular Technology, 2021, 70, 12260-12265.	3.9	2
96	Minimum-Delay Routing for Integrated Aeronautical Ad Hoc Networks Relying on Real Flight Data in the North-Atlantic Region. IEEE Open Journal of Vehicular Technology, 2021, 2, 310-320.	3.4	3
97	Low-Density Spreading Codes for NOMA Systems and a Gaussian Separability-Based Design. IEEE Access, 2021, 9, 33963-33993.	2.6	3
98	Experimental Characterization of Turbo-Coded 20 Gbps Fiber-Wireless-Fiber Optical Links. IEEE Access, 2021, 9, 112726-112732.	2.6	0
99	Deep Learning Assisted Calibrated Beam Training for Millimeter-Wave Communication Systems. IEEE Transactions on Communications, 2021, 69, 6706-6721.	4.9	34
100	A New Class of Structured Beamforming for Content-Centric Fog Radio Access Networks. IEEE Transactions on Communications, 2021, 69, 7269-7282.	4.9	1
101	Physical Layer Security: Detection of Active Eavesdropping Attacks by Support Vector Machines. IEEE Access, 2021, 9, 31595-31607.	2.6	28
102	Polar-Precoding: A Unitary Finite-Feedback Transmit Precoder for Polar-Coded MIMO Systems. IEEE Transactions on Vehicular Technology, 2021, 70, 12203-12208.	3.9	3
103	Is NOMA Efficient in Multi-Antenna Networks? A Critical Look at Next Generation Multiple Access Techniques. IEEE Open Journal of the Communications Society, 2021, 2, 1310-1343.	4.4	102
104	Wideband Channel Estimation for IRS-Aided Systems in the Face of Beam Squint. IEEE Transactions on Wireless Communications, 2021, 20, 6240-6253.	6.1	33
105	Energy-Harvesting Aided Unmanned Aerial Vehicles for Reliable Ground User Localization and Communications Under Lognormal-Nakagami- $m$ Fading Channels. IEEE Transactions on Vehicular Technology, 2021, 70, 1632-1647.	3.9	9
106	Physical Layer Security of Spatially Modulated Sparse-Code Multiple Access in Aeronautical Ad Hoc Networking. IEEE Transactions on Vehicular Technology, 2021, 70, 2436-2447.	3.9	17
107	Optimal Massive-MIMO-Aided Clustered Base-Station Coordination. IEEE Transactions on Vehicular Technology, 2021, 70, 2699-2712.	3.9	12
108	Low-Complexity Joint Power Allocation and Trajectory Design for UAV-Enabled Secure Communications With Power Splitting. IEEE Transactions on Communications, 2021, 69, 1896-1911.	4.9	32

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109	Priority-Aware Secure Precoding Based on Multi-Objective Symbol Error Ratio Optimization. IEEE Transactions on Communications, 2021, 69, 1912-1929.	4.9	0
110	Performance Evaluation of Index Modulation with Single Subcarrier Activation. , 2021, , .		1
111	Learning-Assisted Secure Relay Selection with Outdated CSI for Finite-State Markov Channel. , 2021, , .		2
112	Multi-Agent Deep Reinforcement Learning-Based Cooperative Edge Caching for Ultra-Dense Next-Generation Networks. IEEE Transactions on Communications, 2021, 69, 2441-2456.	4.9	34
113	Energy-Efficient Task Offloading in Massive MIMO-Aided Multi-Pair Fog-Computing Networks. IEEE Transactions on Communications, 2021, 69, 2123-2137.	4.9	14
114	Incremental Massive Random Access Exploiting the Nested Reed-Muller Sequences. IEEE Transactions on Wireless Communications, 2021, 20, 2917-2932.	6.1	4
115	Hybrid Iterative Detection and Decoding of Near-Instantaneously Adaptive Turbo-Coded Sparse Code Multiple Access. IEEE Transactions on Vehicular Technology, 2021, 70, 4682-4692.	3.9	1
116	Deep Reinforcement Learning Aided Packet-Routing for Aeronautical Ad-Hoc Networks Formed by Passenger Planes. IEEE Transactions on Vehicular Technology, 2021, 70, 5166-5171.	3.9	16
117	Beamforming Optimization for Intelligent Reflecting Surface-Aided SWIPT IoT Networks Relying on Discrete Phase Shifts. IEEE Internet of Things Journal, 2021, 8, 8585-8602.	5.5	46
118	AI-Assisted MAC for Reconfigurable Intelligent-Surface-Aided Wireless Networks: Challenges and Opportunities. IEEE Communications Magazine, 2021, 59, 21-27.	4.9	32
119	Soft-Output Successive Cancellation Stack Polar Decoder. IEEE Transactions on Vehicular Technology, 2021, 70, 6238-6243.	3.9	6
120	Reconfigurable Intelligent Surfaces for 6G Systems: Principles, Applications, and Research Directions. IEEE Communications Magazine, 2021, 59, 14-20.	4.9	354
121	Accelerating Deep Reinforcement Learning With the Aid of Partial Model: Energy-Efficient Predictive Video Streaming. IEEE Transactions on Wireless Communications, 2021, 20, 3734-3748.	6.1	7
122	Channel Estimation and Equalization for Terahertz Receiver With RF Impairments. IEEE Journal on Selected Areas in Communications, 2021, 39, 1621-1635.	9.7	18
123	Terahertz Wireless Communications With Flexible Index Modulation Aided Pilot Design. IEEE Journal on Selected Areas in Communications, 2021, 39, 1651-1662.	9.7	16
124	Space-, Time- and Frequency-Domain Index Modulation for Next-Generation Wireless: A Unified Single-/Multi-Carrier and Single-/Multi-RF MIMO Framework. IEEE Transactions on Wireless Communications, 2021, 20, 3847-3864.	6.1	7
125	Deep Learning Assisted mmWave Beam Prediction with Prior Low-frequency Information. , 2021, , .		8
126	Lattice-Based mmWave Hybrid Beamforming. IEEE Transactions on Communications, 2021, 69, 4907-4920.	4.9	18



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127	Analysis and Optimization of Massive Access to the IoT Relying on Multi-Pair Two-Way Massive MIMO Relay Systems. IEEE Transactions on Communications, 2021, 69, 4585-4598.	4.9	11
128	NOMA for Next-Generation Massive IoT: Performance Potential and Technology Directions. IEEE Communications Magazine, 2021, 59, 115-121.	4.9	64
129	Iterative Receiver Design for Polar-Coded SCMA Systems. IEEE Transactions on Communications, 2021, 69, 4235-4246.	4.9	13
130	MIMO-Aided Nonlinear Hybrid Transceiver Design for Multiuser Mmwave Systems Relying on Tomlinson-Harashima Precoding. IEEE Transactions on Vehicular Technology, 2021, 70, 6943-6957.	3.9	8
131	Coordination Game Theory-Based Adaptive Topology Control for Hybrid VLC/RF VANET. IEEE Transactions on Communications, 2021, 69, 5312-5324.	4.9	5
132	Bayesian Learning Aided Sparse Channel Estimation for Orthogonal Time Frequency Space Modulated Systems. IEEE Transactions on Vehicular Technology, 2021, 70, 8343-8348.	3.9	25
133	Orthogonal Time-Frequency Space Modulation: A Promising Next-Generation Waveform. IEEE Wireless Communications, 2021, 28, 136-144.	6.6	208
134	Space-Time Coded Generalized Spatial Modulation for Sparse Code Division Multiple Access. IEEE Transactions on Wireless Communications, 2021, 20, 5359-5372.	6.1	8
135	Petahertz communication: Harmonizing optical spectra for wireless communications. Digital Communications and Networks, 2021, 7, 605-614.	2.7	13
136	Low-Complexity Adaptive Optics Aided Orbital Angular Momentum Based Wireless Communications. IEEE Transactions on Vehicular Technology, 2021, 70, 7812-7824.	3.9	16
137	Distributed Detection for Centralized and Decentralized Millimeter Wave Massive MIMO Sensor Networks. IEEE Transactions on Vehicular Technology, 2021, 70, 7665-7680.	3.9	9
138	Approximate Message Passing Algorithms for Low Complexity OFDM-IM Detection. IEEE Transactions on Vehicular Technology, 2021, 70, 9607-9612.	3.9	6
139	Sparse, Group-Sparse, and Online Bayesian Learning Aided Channel Estimation for Doubly-Selective mmWave Hybrid MIMO OFDM Systems. IEEE Transactions on Communications, 2021, 69, 5843-5858.	4.9	18
140	Bayesian Learning-Based Linear Decentralized Sparse Parameter Estimation in MIMO Wireless Sensor Networks Relying on Imperfect CSI. IEEE Transactions on Communications, 2021, 69, 6236-6250.	4.9	9
141	Airplane-Aided Integrated Next-Generation Networking. IEEE Transactions on Vehicular Technology, 2021, 70, 9345-9354.	3.9	7
142	Permutation-Based TCP and UDP Transmissions to Improve Goodput and Latency in the Internet of Things. IEEE Internet of Things Journal, 2021, 8, 14276-14286.	5.5	11
143	Multiobjective Optimization for Integrated Ground-Air-Space Networks: Current Research and Future Challenges. IEEE Vehicular Technology Magazine, 2021, 16, 88-98.	2.8	11
144	Two-Timescale Beam Selection and Power Allocation for Maritime Offshore Communications. IEEE Communications Letters, 2021, 25, 3060-3064.	2.5	2

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145	Joint User Association and Passive Beamforming in Heterogeneous Networks With Reconfigurable Intelligent Surfaces. <i>IEEE Communications Letters</i> , 2021, 25, 3041-3045.	2.5	9
146	The Evolution of Faster-Than-Nyquist Signaling. <i>IEEE Access</i> , 2021, 9, 86535-86564.	2.6	29
147	Hybrid Analog-Digital Precoder Design for Securing Cognitive Millimeter Wave Networks. <i>IEEE Transactions on Information Forensics and Security</i> , 2021, 16, 4019-4034.	4.5	11
148	Gaussian Approximate Message Passing Detection of Orthogonal Time Frequency Space Modulation. <i>IEEE Transactions on Vehicular Technology</i> , 2021, 70, 10999-11004.	3.9	30
149	Deep Learning-Assisted TeraHertz QPSK Detection Relying on Single-Bit Quantization. <i>IEEE Transactions on Communications</i> , 2021, 69, 8175-8187.	4.9	10
150	Real-Time Energy Harvesting Aided Scheduling in UAV-Assisted D2D Networks Relying on Deep Reinforcement Learning. <i>IEEE Access</i> , 2021, 9, 3638-3648.	2.6	29
151	Robust Decentralized and Distributed Estimation of a Correlated Parameter Vector in MIMO-OFDM Wireless Sensor Networks. <i>IEEE Transactions on Communications</i> , 2021, 69, 6894-6908.	4.9	12
152	The Evolution of Optical OFDM. <i>IEEE Communications Surveys and Tutorials</i> , 2021, 23, 1430-1457.	24.8	48
153	Matrix-Monotonic Optimization Part I: Single-Variable Optimization. <i>IEEE Transactions on Signal Processing</i> , 2021, 69, 738-754.	3.2	27
154	Twin-Component Near-Pareto Routing Optimization for AANETs in the North-Atlantic Region Relying on Real Flight Statistics. <i>IEEE Open Journal of Vehicular Technology</i> , 2021, 2, 346-364.	3.4	8
155	Semi-Stochastic Aircraft Mobility Modelling for Aeronautical Networks: An Australian Case-Study Based on Real Flight Data. <i>IEEE Transactions on Vehicular Technology</i> , 2021, 70, 10763-10779.	3.9	2
156	Parametric Bilinear Iterative Generalized Approximate Message Passing Reception of FTN Multi-Carrier Signaling. <i>IEEE Transactions on Communications</i> , 2021, 69, 8443-8458.	4.9	9
157	Cooperative Multiterminal Radar and Communication: A New Paradigm for 6G Mobile Networks. <i>IEEE Vehicular Technology Magazine</i> , 2021, 16, 38-47.	2.8	10
158	On the Physical Layer Security of the Cooperative Rate-Splitting-Aided Downlink in UAV Networks. <i>IEEE Transactions on Information Forensics and Security</i> , 2021, 16, 5018-5033.	4.5	20
159	Factor Graphs for Support Identification in Compressive Sensing Aided Wireless Sensor Networks. <i>IEEE Sensors Journal</i> , 2021, 21, 27195-27207.	2.4	1
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1880	Radial basis function network assisted wide-band beamforming. , 0, , .		1
1881	Constant modulus algorithm aided soft decision-directed blind space-time equalization for SIMO channels. , 0, , .		8
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