

# 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	Non-orthogonal multiple access for 5G: solutions, challenges, opportunities, and future research trends. IEEE Communications Magazine, 2015, 53, 74-81.	4.9	2,277
2	Spatial Modulation for Generalized MIMO: Challenges, Opportunities, and Implementation. Proceedings of the IEEE, 2014, 102, 56-103.	16.4	1,206
3	Nonorthogonal Multiple Access for 5G and Beyond. Proceedings of the IEEE, 2017, 105, 2347-2381.	16.4	961
4	A Survey on Wireless Security: Technical Challenges, Recent Advances, and Future Trends. Proceedings of the IEEE, 2016, 104, 1727-1765.	16.4	958
5	A Survey of Non-Orthogonal Multiple Access for 5G. IEEE Communications Surveys and Tutorials, 2018, 20, 2294-2323.	24.8	887
6	Towards 6G wireless communication networks: vision, enabling technologies, and new paradigm shifts. Science China Information Sciences, 2021, 64, 1.	2.7	858
7	Machine Learning Paradigms for Next-Generation Wireless Networks. IEEE Wireless Communications, 2017, 24, 98-105.	6.6	822
8	Joint Radar and Communication Design: Applications, State-of-the-Art, and the Road Ahead. IEEE Transactions on Communications, 2020, 68, 3834-3862.	4.9	753
9	Green radio: radio techniques to enable energy-efficient wireless networks. , 2011, 49, 46-54.		613
10	Multicell MIMO Communications Relying on Intelligent Reflecting Surfaces. IEEE Transactions on Wireless Communications, 2020, 19, 5218-5233.	6.1	589
11	Full duplex techniques for 5G networks: self-interference cancellation, protocol design, and relay selection. , 2015, 53, 128-137.		546
12	Fifty Years of MIMO Detection: The Road to Large-Scale MIMOs. IEEE Communications Surveys and Tutorials, 2015, 17, 1941-1988.	24.8	538
13	Mobile Radio Communications. , 1999, , .		520
14	Design Guidelines for Spatial Modulation. IEEE Communications Surveys and Tutorials, 2015, 17, 6-26.	24.8	516
15	Intelligent Reflecting Surface Aided MIMO Broadcasting for Simultaneous Wireless Information and Power Transfer. IEEE Journal on Selected Areas in Communications, 2020, 38, 1719-1734.	9.7	507
16	Spatially Common Sparsity Based Adaptive Channel Estimation and Feedback for FDD Massive MIMO. IEEE Transactions on Signal Processing, 2015, 63, 6169-6183.	3.2	496
17	Enhancing the Physical Layer Security of Non-Orthogonal Multiple Access in Large-Scale Networks. IEEE Transactions on Wireless Communications, 2017, 16, 1656-1672.	6.1	485
18	A Survey of Network Lifetime Maximization Techniques in Wireless Sensor Networks. IEEE Communications Surveys and Tutorials, 2017, 19, 828-854.	24.8	482

#	ARTICLE	IF	CITATIONS
19	User Association in 5G Networks: A Survey and an Outlook. IEEE Communications Surveys and Tutorials, 2016, 18, 1018-1044.	24.8	462
20	Millimeter-Wave Communications: Physical Channel Models, Design Considerations, Antenna Constructions, and Link-Budget. IEEE Communications Surveys and Tutorials, 2018, 20, 870-913.	24.8	456
21	Full-Duplex Wireless Communications: Challenges, Solutions, and Future Research Directions. Proceedings of the IEEE, 2016, 104, 1369-1409.	16.4	443
22	Reconfigurable Intelligent Surface-Based Wireless Communications: Antenna Design, Prototyping, and Experimental Results. IEEE Access, 2020, 8, 45913-45923.	2.6	432
23	MU-MIMO Communications With MIMO Radar: From Co-Existence to Joint Transmission. IEEE Transactions on Wireless Communications, 2018, 17, 2755-2770.	6.1	402
24	Adaptive multicarrier modulation: a convenient framework for time-frequency processing in wireless communications. Proceedings of the IEEE, 2000, 88, 611-640.	16.4	401
25	Thirty Years of Machine Learning: The Road to Pareto-Optimal Wireless Networks. IEEE Communications Surveys and Tutorials, 2020, 22, 1472-1514.	24.8	361
26	Reconfigurable Intelligent Surfaces for 6G Systems: Principles, Applications, and Research Directions. IEEE Communications Magazine, 2021, 59, 14-20.	4.9	354
27	Taking Drones to the Next Level: Cooperative Distributed Unmanned-Aerial-Vehicular Networks for Small and Mini Drones. IEEE Vehicular Technology Magazine, 2017, 12, 73-82.	2.8	343
28	MmWave massive-MIMO-based wireless backhaul for the 5G ultra-dense network. IEEE Wireless Communications, 2015, 22, 13-21.	6.6	339
29	Non-Coherent Code Acquisition in the Multiple Transmit/Multiple Receive Antenna Aided Single- and Multi-Carrier DS-CDMA Downlink. IEEE Transactions on Wireless Communications, 2007, 6, 3864-3869.	6.1	333
30	A Survey of Multi-Objective Optimization in Wireless Sensor Networks: Metrics, Algorithms, and Open Problems. IEEE Communications Surveys and Tutorials, 2017, 19, 550-586.	24.8	317
31	Wireless Myths, Realities, and Futures: From 3G/4G to Optical and Quantum Wireless. Proceedings of the IEEE, 2012, 100, 1853-1888.	16.4	315
32	Latency Minimization for Intelligent Reflecting Surface Aided Mobile Edge Computing. IEEE Journal on Selected Areas in Communications, 2020, 38, 2666-2682.	9.7	305
33	Cell-Free Massive MIMO: A New Next-Generation Paradigm. IEEE Access, 2019, 7, 99878-99888.	2.6	285
34	Multiuser MIMO-OFDM for Next-Generation Wireless Systems. Proceedings of the IEEE, 2007, 95, 1430-1469.	16.4	281
35	Prolog to adaptive multicarrier modulation: a convenient framework for time-frequency processing in wireless communications. Proceedings of the IEEE, 2000, 88, 609-610.	16.4	279
36	Spectrum and Energy-Efficient BeamSpace MIMO-NOMA for Millimeter-Wave Communications Using Lens Antenna Array. IEEE Journal on Selected Areas in Communications, 2017, 35, 2370-2382.	9.7	275

#	ARTICLE	IF	CITATIONS
37	Adaptive modulation techniques for duplex OFDM transmission. IEEE Transactions on Vehicular Technology, 2000, 49, 1893-1906.	3.9	251
38	Channel Estimation for Millimeter-Wave Massive MIMO With Hybrid Precoding Over Frequency-Selective Fading Channels. IEEE Communications Letters, 2016, 20, 1259-1262.	2.5	251
39	Survey of Large-Scale MIMO Systems. IEEE Communications Surveys and Tutorials, 2015, 17, 1738-1760.	24.8	249
40	Comparative study of turbo decoding techniques: an overview. IEEE Transactions on Vehicular Technology, 2000, 49, 2208-2233.	3.9	244
41	Trajectory Design and Power Control for Multi-UAV Assisted Wireless Networks: A Machine Learning Approach. IEEE Transactions on Vehicular Technology, 2019, 68, 7957-7969.	3.9	238
42	Artificial Noise Aided Secure Cognitive Beamforming for Cooperative MISO-NOMA Using SWIPT. IEEE Journal on Selected Areas in Communications, 2018, 36, 918-931.	9.7	235
43	Coherent and Differential Space-Time Shift Keying: A Dispersion Matrix Approach. IEEE Transactions on Communications, 2010, 58, 3219-3230.	4.9	233
44	Relay-Selection Improves the Security-Reliability Trade-Off in Cognitive Radio Systems. IEEE Transactions on Communications, 2015, 63, 215-228.	4.9	233
45	Dual-Mode Index Modulation Aided OFDM. IEEE Access, 2017, 5, 50-60.	2.6	231
46	Near-Optimal Beam Selection for Beamspace MmWave Massive MIMO Systems. IEEE Communications Letters, 2016, 20, 1054-1057.	2.5	230
47	Novel Index Modulation Techniques: A Survey. IEEE Communications Surveys and Tutorials, 2019, 21, 315-348.	24.8	229
48	On Low-Resolution ADCs in Practical 5G Millimeter-Wave Massive MIMO Systems. IEEE Communications Magazine, 2018, 56, 205-211.	4.9	218
49	Reconfigurable Intelligent Surface Aided NOMA Networks. IEEE Journal on Selected Areas in Communications, 2020, 38, 2575-2588.	9.7	215
50	A survey of QoS routing solutions for mobile ad hoc networks. IEEE Communications Surveys and Tutorials, 2007, 9, 50-70.	24.8	208
51	Orthogonal Time-Frequency Space Modulation: A Promising Next-Generation Waveform. IEEE Wireless Communications, 2021, 28, 136-144.	6.6	208
52	On the Spectral Efficiency of Massive MIMO Systems With Low-Resolution ADCs. IEEE Communications Letters, 2016, 20, 842-845.	2.5	207
53	Cooperative Load Balancing in Hybrid Visible Light Communications and WiFi. IEEE Transactions on Communications, 2015, 63, 1319-1329.	4.9	200
54	Single-Carrier SM-MIMO: A Promising Design for Broadband Large-Scale Antenna Systems. IEEE Communications Surveys and Tutorials, 2016, 18, 1687-1716.	24.8	200

#	ARTICLE	IF	CITATIONS
55	Antenna Selection in Spatial Modulation Systems. IEEE Communications Letters, 2013, 17, 521-524.	2.5	198
56	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
57	Security Versus Reliability Analysis of Opportunistic Relaying. IEEE Transactions on Vehicular Technology, 2014, 63, 2653-2661.	3.9	193
58	Internet of Underwater Things and Big Marine Data Analyticsâ€”A Comprehensive Survey. IEEE Communications Surveys and Tutorials, 2021, 23, 904-956.	24.8	192
59	Performance of generalized multicarrier DS-CDMA over Nakagami-m fading channels. IEEE Transactions on Communications, 2002, 50, 956-966.	4.9	190
60	Compressive Sensing Techniques for Next-Generation Wireless Communications. IEEE Wireless Communications, 2018, 25, 144-153.	6.6	190
61	STAR: Simultaneous Transmission and Reflection for 360Â° Coverage by Intelligent Surfaces. IEEE Wireless Communications, 2021, 28, 102-109.	6.6	190
62	Spectrally Efficient Time-Frequency Training OFDM for Mobile Large-Scale MIMO Systems. IEEE Journal on Selected Areas in Communications, 2013, 31, 251-263.	9.7	189
63	Layered ACO-OFDM for intensity-modulated direct-detection optical wireless transmission. Optics Express, 2015, 23, 12382.	1.7	184
64	Energy-Efficient Computation Offloading for Secure UAV-Edge-Computing Systems. IEEE Transactions on Vehicular Technology, 2019, 68, 6074-6087.	3.9	180
65	Smart Pilot Assignment for Massive MIMO. IEEE Communications Letters, 2015, 19, 1644-1647.	2.5	178
66	Terahertz Terabit Wireless Communication. IEEE Microwave Magazine, 2011, 12, 108-116.	0.7	175
67	Generalised Pre-Coding Aided Spatial Modulation. IEEE Transactions on Wireless Communications, 2013, 12, 5434-5443.	6.1	174
68	Structured Compressive Sensing-Based Spatio-Temporal Joint Channel Estimation for FDD Massive MIMO. IEEE Transactions on Communications, 2016, 64, 601-617.	4.9	173
69	Physical-layer authentication for wireless security enhancement: current challenges and future developments. , 2016, 54, 152-158.		170
70	Orthogonal frequency division multiplex synchronization techniques for frequency-selective fading channels. IEEE Journal on Selected Areas in Communications, 2001, 19, 999-1008.	9.7	167
71	Subcarrier-Index Modulation Aided OFDM - Will It Work?. IEEE Access, 2016, 4, 2580-2593.	2.6	167
72	Reduced-Complexity ML Detection and Capacity-Optimized Training for Spatial Modulation Systems. IEEE Transactions on Communications, 2014, 62, 112-125.	4.9	158

#	ARTICLE	IF	CITATIONS
73	Quantum-Assisted Routing Optimization for Self-Organizing Networks. IEEE Access, 2014, 2, 614-632.	2.6	157
74	Joint Relay and Jammer Selection Improves the Physical Layer Security in the Face of CSI Feedback Delays. IEEE Transactions on Vehicular Technology, 2016, 65, 6259-6274.	3.9	155
75	On the Performance Gain of NOMA Over OMA in Uplink Communication Systems. IEEE Transactions on Communications, 2020, 68, 536-568.	4.9	153
76	Measurement-device-independent quantum secure direct communication. Science China: Physics, Mechanics and Astronomy, 2020, 63, 1.	2.0	153
77	Vehicular Sensing Networks in a Smart City: Principles, Technologies and Applications. IEEE Wireless Communications, 2018, 25, 122-132.	6.6	143
78	Achieving Maximum Energy-Efficiency in Multi-Relay OFDMA Cellular Networks: A Fractional Programming Approach. IEEE Transactions on Communications, 2013, 61, 2746-2757.	4.9	142
79	The Road From Classical to Quantum Codes: A Hashing Bound Approaching Design Procedure. IEEE Access, 2015, 3, 146-176.	2.6	142
80	Next-generation digital television terrestrial broadcasting systems: Key technologies and research trends. , 2012, 50, 150-158.		141
81	Bandwidth efficient QAM schemes for Rayleigh fading channels. IEE Proceedings, Part I: Communications, Speech and Vision, 1991, 138, 169.	0.2	140
82	Multicarrier ds-cdma: a multiple access scheme for ubiquitous broadband wireless communications. , 2003, 41, 116-124.		140
83	Pricing and Resource Allocation via Game Theory for a Small-Cell Video Caching System. IEEE Journal on Selected Areas in Communications, 2016, 34, 2115-2129.	9.7	140
84	Generalized Space-Time Shift Keying Designed for Flexible Diversity-, Multiplexing- and Complexity-Tradeoffs. IEEE Transactions on Wireless Communications, 2011, 10, 1144-1153.	6.1	139
85	Spectrum Inference in Cognitive Radio Networks: Algorithms and Applications. IEEE Communications Surveys and Tutorials, 2018, 20, 150-182.	24.8	138
86	Quantum Search Algorithms, Quantum Wireless, and a Low-Complexity Maximum Likelihood Iterative Quantum Multi-User Detector Design. IEEE Access, 2013, 1, 94-122.	2.6	137
87	50 Years of Permutation, Spatial and Index Modulation: From Classic RF to Visible Light Communications and Data Storage. IEEE Communications Surveys and Tutorials, 2018, 20, 1905-1938.	24.8	132
88	User-Centric C-RAN Architecture for Ultra-Dense 5G Networks: Challenges and Methodologies. , 2018, 56, 14-20.		132
89	Aeronautical \$Ad-Hoc\$ Networking for the Internet-Above-the-Clouds. Proceedings of the IEEE, 2019, 107, 868-911.	16.4	132
90	Performance Analysis of NOMA-SM in Vehicle-to-Vehicle Massive MIMO Channels. IEEE Journal on Selected Areas in Communications, 2017, 35, 2653-2666.	9.7	130

#	ARTICLE	IF	CITATIONS
91	Internet of Vehicles: Sensing-Aided Transportation Information Collection and Diffusion. IEEE Transactions on Vehicular Technology, 2018, 67, 3813-3825.	3.9	130
92	On the MIMO Channel Capacity of Multidimensional Signal Sets. IEEE Transactions on Vehicular Technology, 2006, 55, 528-536.	3.9	128
93	A Near-Optimal UAV-Aided Radio Coverage Strategy for Dense Urban Areas. IEEE Transactions on Vehicular Technology, 2019, 68, 9098-9109.	3.9	127
94	Charging Unplugged: Will Distributed Laser Charging for Mobile Wireless Power Transfer Work?. IEEE Vehicular Technology Magazine, 2016, 11, 36-45.	2.8	124
95	SVD-Assisted Multiuser Transmitter and Multiuser Detector Design for MIMO Systems. IEEE Transactions on Vehicular Technology, 2009, 58, 1016-1021.	3.9	123
96	Visible light communications in heterogeneous networks: Paving the way for user-centric design. IEEE Wireless Communications, 2015, 22, 8-16.	6.6	123
97	Pilot Contamination Elimination for Large-Scale Multiple-Antenna Aided OFDM Systems. IEEE Journal on Selected Topics in Signal Processing, 2014, 8, 759-772.	7.3	122
98	Distributed Caching for Data Dissemination in the Downlink of Heterogeneous Networks. IEEE Transactions on Communications, 2015, 63, 3553-3568.	4.9	122
99	Soft Pilot Reuse and Multicell Block Diagonalization Precoding for Massive MIMO Systems. IEEE Transactions on Vehicular Technology, 2016, 65, 3285-3298.	3.9	122
100	Performance Improvement and Cost Reduction Techniques for Radio Over Fiber Communications. IEEE Communications Surveys and Tutorials, 2015, 17, 627-670.	24.8	121
101	Adaptive minimum-BER linear multiuser detection for DS-CDMA signals in multipath channels. IEEE Transactions on Signal Processing, 2001, 49, 1240-1247.	3.2	120
102	When Entanglement Meets Classical Communications: Quantum Teleportation for the Quantum Internet. IEEE Transactions on Communications, 2020, 68, 3808-3833.	4.9	117
103	Optimum mode-switching-assisted constant-power single- and multicarrier adaptive modulation. IEEE Transactions on Vehicular Technology, 2003, 52, 536-560.	3.9	115
104	Physical Layer Security for the Internet of Things: Authentication and Key Generation. IEEE Wireless Communications, 2019, 26, 92-98.	6.6	115
105	Low-complexity near-optimal signal detection for uplink large-scale MIMO systems. Electronics Letters, 2014, 50, 1326-1328.	0.5	113
106	Power Allocation-Aided Spatial Modulation for Limited-Feedback MIMO Systems. IEEE Transactions on Vehicular Technology, 2015, 64, 2198-2204.	3.9	112
107	Unified Performance Analysis of Mixed Radio Frequency/Free-Space Optical Dual-Hop Transmission Systems. Journal of Lightwave Technology, 2015, 33, 2286-2293.	2.7	112
108	Learning-Aided Physical Layer Authentication as an Intelligent Process. IEEE Transactions on Communications, 2019, 67, 2260-2273.	4.9	112

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109	Joint User Activity and Data Detection Based on Structured Compressive Sensing for NOMA. IEEE Communications Letters, 2016, , 1-1.	2.5	110
110	Cooperative Overlay Spectrum Access in Cognitive Radio Networks. IEEE Communications Surveys and Tutorials, 2017, 19, 1924-1944.	24.8	109
111	Multiple-Antenna-Assisted Non-Orthogonal Multiple Access. IEEE Wireless Communications, 2018, 25, 17-23.	6.6	109
112	Satellite-Based Continuous-Variable Quantum Communications: State-of-the-Art and a Predictive Outlook. IEEE Communications Surveys and Tutorials, 2019, 21, 881-919.	24.8	107
113	Spectrum- and Energy-Efficient OFDM Based on Simultaneous Multi-Channel Reconstruction. IEEE Transactions on Signal Processing, 2013, 61, 6047-6059.	3.2	106
114	EXIT Charts for System Design and Analysis. IEEE Communications Surveys and Tutorials, 2014, 16, 127-153.	24.8	106
115	Learning Radio Resource Management in RANs: Framework, Opportunities, and Challenges. IEEE Communications Magazine, 2018, 56, 138-145.	4.9	106
116	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
117	Support vector machine multiuser receiver for DS-CDMA signals in multipath channels. IEEE Transactions on Neural Networks, 2001, 12, 604-611.	4.8	105
118	Robust Beamforming Design in a NOMA Cognitive Radio Network Relying on SWIPT. IEEE Journal on Selected Areas in Communications, 2019, 37, 142-155.	9.7	105
119	A Universal Space-Time Architecture for Multiple-Antenna Aided Systems. IEEE Communications Surveys and Tutorials, 2012, 14, 401-420.	24.8	104
120	Asymmetrical Hybrid Optical OFDM for Visible Light Communications With Dimming Control. IEEE Photonics Technology Letters, 2015, 27, 974-977.	1.3	104
121	Performance Analysis of Multihop-Diversity-Aided Multihop Links. IEEE Transactions on Vehicular Technology, 2012, 61, 2504-2516.	3.9	103
122	Optimisation of switching levels for adaptive modulation in slow Rayleigh fading. Electronics Letters, 1996, 32, 1167.	0.5	102
123	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
124	Airplane-Aided Integrated Networking for 6G Wireless: Will It Work?. IEEE Vehicular Technology Magazine, 2019, 14, 84-91.	2.8	101
125	Structured compressive sensing based superimposed pilot design in downlink large-scale MIMO systems. Electronics Letters, 2014, 50, 896-898.	0.5	100
126	Transmit Precoded Spatial Modulation: Maximizing the Minimum Euclidean Distance Versus Minimizing the Bit Error Ratio. IEEE Transactions on Wireless Communications, 2016, 15, 2054-2068.	6.1	100



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127	Multihop Free-Space Optical Communications Over Turbulence Channels with Pointing Errors using Heterodyne Detection. <i>Journal of Lightwave Technology</i> , 2014, 32, 2597-2604.	2.7	99
128	Multiple Mobile Data Offloading Through Disruption Tolerant Networks. <i>IEEE Transactions on Mobile Computing</i> , 2014, 13, 1579-1596.	3.9	99
129	Generalized Dual-Mode Index Modulation Aided OFDM. <i>IEEE Communications Letters</i> , 2017, 21, 761-764.	2.5	99
130	Integrated Data and Energy Communication Network: A Comprehensive Survey. <i>IEEE Communications Surveys and Tutorials</i> , 2018, 20, 3169-3219.	24.8	98
131	Reduced-Complexity Coherent Versus Non-Coherent QAM-Aided Space-Time Shift Keying. <i>IEEE Transactions on Communications</i> , 2011, 59, 3090-3101.	4.9	97
132	Multiuser MIMO-OFDM for Visible Light Communications. <i>IEEE Photonics Journal</i> , 2015, 7, 1-11.	1.0	97
133	Hybrid Beamforming Design for Full-Duplex Millimeter Wave Communication. <i>IEEE Transactions on Vehicular Technology</i> , 2019, 68, 1394-1404.	3.9	97
134	Multiuser MISO Transceiver Design for Indoor Downlink Visible Light Communication Under Per-LED Optical Power Constraints. <i>IEEE Photonics Journal</i> , 2015, 7, 1-15.	1.0	96
135	Resource Allocation Under Delay-Guarantee Constraints for Heterogeneous Visible-Light and RF Femtocell. <i>IEEE Transactions on Wireless Communications</i> , 2015, 14, 1020-1034.	6.1	95
136	Graph Coloring Based Pilot Allocation to Mitigate Pilot Contamination for Multi-Cell Massive MIMO Systems. <i>IEEE Communications Letters</i> , 2015, 19, 1842-1845.	2.5	95
137	Time-Frequency Training OFDM with High Spectral Efficiency and Reliable Performance in High Speed Environments. <i>IEEE Journal on Selected Areas in Communications</i> , 2012, 30, 695-707.	9.7	93
138	Genetic algorithm assisted joint multiuser symbol detection and fading channel estimation for synchronous CDMA systems. <i>IEEE Journal on Selected Areas in Communications</i> , 2001, 19, 985-998.	9.7	92
139	Adaptive minimum bit-error rate beamforming. <i>IEEE Transactions on Wireless Communications</i> , 2005, 4, 341-348.	6.1	92
140	Survey of Turbo, LDPC, and Polar Decoder ASIC Implementations. <i>IEEE Communications Surveys and Tutorials</i> , 2019, 21, 2309-2333.	24.8	92
141	Error Probability and Capacity Analysis of Generalised Pre-Coding Aided Spatial Modulation. <i>IEEE Transactions on Wireless Communications</i> , 2015, 14, 364-375.	6.1	89
142	A recursive algorithm for the error probability evaluation of M-QAM. <i>IEEE Communications Letters</i> , 2000, 4, 304-306.	2.5	85
143	Age of Information in Energy Harvesting Aided Massive Multiple Access Networks. <i>IEEE Journal on Selected Areas in Communications</i> , 2022, 40, 1441-1456.	9.7	84
144	Social-Community-Aware Resource Allocation for D2D Communications Underlying Cellular Networks. <i>IEEE Transactions on Vehicular Technology</i> , 2016, 65, 3628-3640.	3.9	83

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145	Twin-Timescale Artificial Intelligence Aided Mobility-Aware Edge Caching and Computing in Vehicular Networks. IEEE Transactions on Vehicular Technology, 2019, 68, 3086-3099.	3.9	83
146	Compressive Sensing Based Time Domain Synchronous OFDM Transmission for Vehicular Communications. IEEE Journal on Selected Areas in Communications, 2013, 31, 460-469.	9.7	82
147	A Survey of Digital Television Broadcast Transmission Techniques. IEEE Communications Surveys and Tutorials, 2013, 15, 1924-1949.	24.8	82
148	Low-Complexity Soft-Output Quantum-Assisted Multiuser Detection for Direct-Sequence Spreading and Slow Subcarrier-Hopping Aided SDMA-OFDM Systems. IEEE Access, 2014, 2, 451-472.	2.6	82
149	Frequency-Domain-Equalization-Aided Iterative Detection of Faster-than-Nyquist Signaling. IEEE Transactions on Vehicular Technology, 2015, 64, 2122-2128.	3.9	82
150	Admission control schemes for 802.11-based multi-hop mobile ad hoc networks: a survey. IEEE Communications Surveys and Tutorials, 2009, 11, 78-108.	24.8	81
151	Iterative Matrix Decomposition Aided Block Diagonalization for mm-Wave Multiuser MIMO Systems. IEEE Transactions on Wireless Communications, 2017, 16, 1372-1384.	6.1	81
152	Achievable Rate of Rician Large-Scale MIMO Channels With Transceiver Hardware Impairments. IEEE Transactions on Vehicular Technology, 2016, 65, 8800-8806.	3.9	80
153	Energy Efficient OFDMA Networks Maintaining Statistical QoS Guarantees for Delay-Sensitive Traffic. IEEE Access, 2016, 4, 774-791.	2.6	80
154	Wideband BeamSpace Channel Estimation for Millimeter-Wave MIMO Systems Relying on Lens Antenna Arrays. IEEE Transactions on Signal Processing, 2019, 67, 4809-4824.	3.2	80
155	Large-scale MIMO-based wireless backhaul in 5G networks. IEEE Wireless Communications, 2015, 22, 58-66.	6.6	79
156	Voice Compression and Communications. , 2001, , .		79
157	Joint CSIT Acquisition Based on Low-Rank Matrix Completion for FDD Massive MIMO Systems. IEEE Communications Letters, 2015, 19, 2178-2181.	2.5	78
158	Effects of Channel Estimation on Spatial Modulation. IEEE Signal Processing Letters, 2012, 19, 805-808.	2.1	77
159	Energy Efficient Subchannel and Power Allocation for Software-defined Heterogeneous VLC and RF Networks. IEEE Journal on Selected Areas in Communications, 2018, 36, 658-670.	9.7	77
160	Channel Feedback Based on AoD-Adaptive Subspace Codebook in FDD Massive MIMO Systems. IEEE Transactions on Communications, 2018, 66, 5235-5248.	4.9	77
161	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
162	Efficient Computation of EXIT Functions for Nonbinary Iterative Decoding. IEEE Transactions on Communications, 2006, 54, 2133-2136.	4.9	75

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163	Coherent Versus Non-Coherent Decode-and-Forward Relaying Aided Cooperative Space-Time Shift Keying. IEEE Transactions on Communications, 2011, 59, 1707-1719.	4.9	75
164	Quality-of-experience assessment and its application to video services in lte networks. IEEE Wireless Communications, 2015, 22, 70-78.	6.6	75
165	Cross-Layer Network Lifetime Maximization in Interference-Limited WSNs. IEEE Transactions on Vehicular Technology, 2015, 64, 3795-3803.	3.9	75
166	Transmission of subband-coded images via mobile channels. IEEE Transactions on Circuits and Systems for Video Technology, 1993, 3, 15-26.	5.6	74
167	Noncoherent Quantum Multiple Symbol Differential Detection for Wireless Systems. IEEE Access, 2015, 3, 569-598.	2.6	74
168	Probabilistic Small-Cell Caching: Performance Analysis and Optimization. IEEE Transactions on Vehicular Technology, 2016, , 1-1.	3.9	74
169	Quantum Search Algorithms for Wireless Communications. IEEE Communications Surveys and Tutorials, 2019, 21, 1209-1242.	24.8	74
170	A New Frontier for IoT Security Emerging From Three Decades of Key Generation Relying on Wireless Channels. IEEE Access, 2020, 8, 138406-138446.	2.6	73
171	Near-capacity irregular variable length coding and irregular unity rate coding. IEEE Transactions on Wireless Communications, 2009, 8, 5500-5507.	6.1	72
172	Transmit-Diversity-Assisted Space-Shift Keying for Colocated and Distributed/Cooperative MIMO Elements. IEEE Transactions on Vehicular Technology, 2011, 60, 2864-2869.	3.9	72
173	Super-Resolution Sparse MIMO-OFDM Channel Estimation Based on Spatial and Temporal Correlations. IEEE Communications Letters, 2014, 18, 1266-1269.	2.5	71
174	Millimeter-Wave Radio Over Fiber Optical Upconversion Techniques Relying on Link Nonlinearity. IEEE Communications Surveys and Tutorials, 2016, 18, 29-53.	24.8	71
175	Turbo-Like Beamforming Based on Tabu Search Algorithm for Millimeter-Wave Massive MIMO Systems. IEEE Transactions on Vehicular Technology, 2016, 65, 5731-5737.	3.9	71
176	Space-time codes and concatenated channel codes for wireless communications. Proceedings of the IEEE, 2002, 90, 187-219.	16.4	70
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