Derrick Wing Kwan Ng

List of Publications by Year
in descending order

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366	19,850	13099	16183
papers	citations	68 h-index	124 g-index

376	376	376	8195
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Practical Non-Linear Energy Harvesting Model and Resource Allocation for SWIPT Systems. IEEE Communications Letters, 2015, 19, 2082-2085.	4.1	743
2	Simultaneous wireless information and power transfer in modern communication systems. , 2014, 52, 104-110.		737
3	Energy-Efficient Resource Allocation in OFDMA Systems with Large Numbers of Base Station Antennas. IEEE Transactions on Wireless Communications, 2012, 11, 3292-3304.	9.2	473
4	Prospective Multiple Antenna Technologies for Beyond 5G. IEEE Journal on Selected Areas in Communications, 2020, 38, 1637-1660.	14.0	460
5	Wireless Information and Power Transfer: Energy Efficiency Optimization in OFDMA Systems. IEEE Transactions on Wireless Communications, 2013, 12, 6352-6370.	9.2	458
6	Robust Beamforming for Secure Communication in Systems With Wireless Information and Power Transfer. IEEE Transactions on Wireless Communications, 2014, 13, 4599-4615.	9.2	455
7	Fundamentals of Wireless Information and Power Transfer: From RF Energy Harvester Models to Signal and System Designs. IEEE Journal on Selected Areas in Communications, 2019, 37, 4-33.	14.0	452
8	Optimal Joint Power and Subcarrier Allocation for Full-Duplex Multicarrier Non-Orthogonal Multiple Access Systems. IEEE Transactions on Communications, 2017, 65, 1077-1091.	7.8	442
9	Robust and Secure Wireless Communications via Intelligent Reflecting Surfaces. IEEE Journal on Selected Areas in Communications, 2020, 38, 2637-2652.	14.0	435
10	An Overview of Sustainable Green 5G Networks. IEEE Wireless Communications, 2017, 24, 72-80.	9.0	427
11	Application of smart antenna technologies in simultaneous wireless information and power transfer. , 2015, 53, 86-93.		380
12	Massive Access for 5G and Beyond. IEEE Journal on Selected Areas in Communications, 2021, 39, 615-637.	14.0	347
13	A Survey on Multiple-Antenna Techniques for Physical Layer Security. IEEE Communications Surveys and Tutorials, 2017, 19, 1027-1053.	39.4	343
14	Energy-Efficient Resource Allocation in Multi-Cell OFDMA Systems with Limited Backhaul Capacity. IEEE Transactions on Wireless Communications, 2012, 11, 3618-3631.	9.2	330
15	Energy-Efficient Resource Allocation for Wireless Powered Communication Networks. IEEE Transactions on Wireless Communications, 2016, 15, 2312-2327.	9.2	299
16	Energy-Efficient Resource Allocation for Secure OFDMA Systems. IEEE Transactions on Vehicular Technology, 2012, 61, 2572-2585.	6.3	296
17	Optimal 3D-Trajectory Design and Resource Allocation for Solar-Powered UAV Communication Systems. IEEE Transactions on Communications, 2019, 67, 4281-4298.	7.8	285
18	Robust Resource Allocation for MIMO Wireless Powered Communication Networks Based on a Non-Linear EH Model. IEEE Transactions on Communications, 2017, 65, 1984-1999.	7.8	270

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19	Secure Massive MIMO Transmission With an Active Eavesdropper. IEEE Transactions on Information Theory, 2016, 62, 3880-3900.	2.4	264
20	Robust Trajectory and Transmit Power Design for Secure UAV Communications. IEEE Transactions on Vehicular Technology, 2018, 67, 9042-9046.	6.3	225
21	Energy-Efficient Resource Allocation in OFDMA Systems with Hybrid Energy Harvesting Base Station. IEEE Transactions on Wireless Communications, 2013, 12, 3412-3427.	9.2	217
22	Optimal Resource Allocation for Power-Efficient MC-NOMA With Imperfect Channel State Information. IEEE Transactions on Communications, 2017, 65, 3944-3961.	7.8	213
23	A Comprehensive Overview on 5G-and-Beyond Networks With UAVs: From Communications to Sensing and Intelligence. IEEE Journal on Selected Areas in Communications, 2021, 39, 2912-2945.	14.0	202
24	Spectral and Energy-Efficient Wireless Powered IoT Networks: NOMA or TDMA?. IEEE Transactions on Vehicular Technology, 2018, 67, 6663-6667.	6.3	198
25	Multi-User Precoding and Channel Estimation for Hybrid Millimeter Wave Systems. IEEE Journal on Selected Areas in Communications, 2017, 35, 1576-1590.	14.0	193
26	Multiobjective Resource Allocation for Secure Communication in Cognitive Radio Networks With Wireless Information and Power Transfer. IEEE Transactions on Vehicular Technology, 2016, 65, 3166-3184.	6.3	190
27	Dynamic Resource Allocation in MIMO-OFDMA Systems with Full-Duplex and Hybrid Relaying. IEEE Transactions on Communications, 2012, 60, 1291-1304.	7.8	178
28	Physical Layer Security in UAV Systems: Challenges and Opportunities. IEEE Wireless Communications, 2019, 26, 40-47.	9.0	176
29	Resource Allocation for IRS-Assisted Full-Duplex Cognitive Radio Systems. IEEE Transactions on Communications, 2020, 68, 7376-7394.	7.8	162
30	Secure and Green SWIPT in Distributed Antenna Networks With Limited Backhaul Capacity. IEEE Transactions on Wireless Communications, 2015, 14, 5082-5097.	9.2	153
31	On the Performance Gain of NOMA Over OMA in Uplink Communication Systems. IEEE Transactions on Communications, 2020, 68, 536-568.	7.8	153
32	Joint Trajectory and Resource Allocation Design for Energy-Efficient Secure UAV Communication Systems. IEEE Transactions on Communications, 2020, 68, 4536-4553.	7.8	153
33	Delay Minimization for NOMA-MEC Offloading. IEEE Signal Processing Letters, 2018, 25, 1875-1879.	3.6	144
34	Energy Efficiency and Spectral Efficiency Tradeoff in RIS-Aided Multiuser MIMO Uplink Transmission. IEEE Transactions on Signal Processing, 2021, 69, 1407-1421.	5.3	139
35	Secrecy wireless information and power transfer: challenges and opportunities. IEEE Wireless Communications, 2016, 23, 54-61.	9.0	134
36	Multi-Objective Optimization for Robust Power Efficient and Secure Full-Duplex Wireless Communication Systems. IEEE Transactions on Wireless Communications, 2016, 15, 5511-5526.	9.2	131

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37	Outage Performance for Cooperative NOMA Transmission with an AF Relay. IEEE Communications Letters, 2017, 21, 2428-2431.	4.1	130
38	A Simple Variational Bayes Detector for Orthogonal Time Frequency Space (OTFS) Modulation. IEEE Transactions on Vehicular Technology, 2020, 69, 7976-7980.	6.3	127
39	Sum-Rate Maximization for IRS-Assisted UAV OFDMA Communication Systems. IEEE Transactions on Wireless Communications, 2021, 20, 2530-2550.	9.2	126
40	Joint Beamforming and Power Allocation for Secrecy in Peer-to-Peer Relay Networks. IEEE Transactions on Wireless Communications, 2015, 14, 3280-3293.	9.2	125
41	Resource Allocation for Secure IRS-Assisted Multiuser MISO Systems. , 2019, , .		117
42	Robust and Secure Resource Allocation for Full-Duplex MISO Multicarrier NOMA Systems. IEEE Transactions on Communications, 2018, 66, 4119-4137.	7.8	115
43	Deep Residual Learning for Channel Estimation in Intelligent Reflecting Surface-Assisted Multi-User Communications. IEEE Transactions on Wireless Communications, 2022, 21, 898-912.	9.2	114
44	Bayesian Predictive Beamforming for Vehicular Networks: A Low-Overhead Joint Radar-Communication Approach. IEEE Transactions on Wireless Communications, 2021, 20, 1442-1456.	9.2	113
45	Multiuser MISO UAV Communications in Uncertain Environments With No-Fly Zones: Robust Trajectory and Resource Allocation Design. IEEE Transactions on Communications, 2020, 68, 3153-3172.	7.8	111
46	Robust and Secure Sum-Rate Maximization for Multiuser MISO Downlink Systems With Self-Sustainable IRS. IEEE Transactions on Communications, 2021, 69, 7032-7049.	7.8	111
47	Optimal Joint Power and Subcarrier Allocation for MC-NOMA Systems. , 2016, , .		110
48	Exploiting Multiple-Antenna Techniques for Non-Orthogonal Multiple Access. IEEE Journal on Selected Areas in Communications, 2017, 35, 2207-2220.	14.0	109
49	Multi-Antenna Covert Communications in Random Wireless Networks. IEEE Transactions on Wireless Communications, 2019, 18, 1974-1987.	9.2	108
50	Multi-Beam NOMA for Hybrid mmWave Systems. IEEE Transactions on Communications, 2019, 67, 1705-1719.	7.8	105
51	Integrated Sensing and Communication-Assisted Orthogonal Time Frequency Space Transmission for Vehicular Networks. IEEE Journal on Selected Topics in Signal Processing, 2021, 15, 1515-1528.	10.8	103
52	Fully Non-Orthogonal Communication for Massive Access. IEEE Transactions on Communications, 2018, 66, 1717-1731.	7.8	101
53	Secure Resource Allocation and Scheduling for OFDMA Decode-and-Forward Relay Networks. IEEE Transactions on Wireless Communications, 2011, 10, 3528-3540.	9.2	99
54	Resource Allocation and Scheduling in Multi-Cell OFDMA Systems with Decode-and-Forward Relaying. IEEE Transactions on Wireless Communications, 2011, 10, 2246-2258.	9.2	95

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55	Power Efficient Resource Allocation for Full-Duplex Radio Distributed Antenna Networks. IEEE Transactions on Wireless Communications, 2016, 15, 2896-2911.	9.2	95
56	DeepBAN: A Temporal Convolution-Based Communication Framework for Dynamic WBANs. IEEE Transactions on Communications, 2021, 69, 6675-6690.	7.8	91
57	Joint Beamforming and Power Allocation in Downlink NOMA Multiuser MIMO Networks. IEEE Transactions on Wireless Communications, 2018, 17, 5367-5381.	9.2	89
58	User-Centric Energy Efficiency Maximization for Wireless Powered Communications. IEEE Transactions on Wireless Communications, 2016, 15, 6898-6912.	9.2	88
59	Cross-Layer Scheduling for OFDMA Amplify-and-Forward Relay Networks. IEEE Transactions on Vehicular Technology, 2010, 59, 1443-1458.	6.3	86
60	Artificial Noise Assisted Secure Transmission Under Training and Feedback. IEEE Transactions on Signal Processing, 2015, 63, 6285-6298.	5.3	85
61	On the Design of Massive Non-Orthogonal Multiple Access With Imperfect Successive Interference Cancellation. IEEE Transactions on Communications, 2019, 67, 2539-2551.	7.8	84
62	Energy-efficient resource allocation in multiuser OFDM systems with wireless information and power transfer. , 2013, , .		83
63	Performance Analysis of Coded OTFS Systems Over High-Mobility Channels. IEEE Transactions on Wireless Communications, 2021, 20, 6033-6048.	9.2	83
64	Analysis and Design of Secure Massive MIMO Systems in the Presence of Hardware Impairments. IEEE Transactions on Wireless Communications, 2017, 16, 2001-2016.	9.2	80
65	Transmitter and Receiver Window Designs for Orthogonal Time-Frequency Space Modulation. IEEE Transactions on Communications, 2021, 69, 2207-2223.	7.8	78
66	Intelligent Reflecting Surface-Aided Joint Processing Coordinated Multipoint Transmission. IEEE Transactions on Communications, 2021, 69, 1650-1665.	7.8	77
67	Intelligent Reflecting Surface (IRS)-Aided Covert Wireless Communications With Delay Constraint. IEEE Transactions on Wireless Communications, 2022, 21, 532-547.	9.2	77
68	Energy Efficiency in Secure IRS-Aided SWIPT. IEEE Wireless Communications Letters, 2020, 9, 1884-1888.	5.0	76
69	Deep Transfer Learning for Signal Detection in Ambient Backscatter Communications. IEEE Transactions on Wireless Communications, 2021, 20, 1624-1638.	9.2	76
70	Smart and Reconfigurable Wireless Communications: From IRS Modeling to Algorithm Design. IEEE Wireless Communications, 2021, 28, 118-125.	9.0	75
71	Data-Aided Channel Estimation for OTFS Systems With a Superimposed Pilot and Data Transmission Scheme. IEEE Wireless Communications Letters, 2021, 10, 1954-1958.	5.0	74
72	Energy-Constrained UAV-Assisted Secure Communications With Position Optimization and Cooperative Jamming. IEEE Transactions on Communications, 2020, 68, 4476-4489.	7.8	72

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73	Exploiting Inter-User Interference for Secure Massive Non-Orthogonal Multiple Access. IEEE Journal on Selected Areas in Communications, 2018, 36, 788-801.	14.0	70
74	Energy-Efficient D2D Overlaying Communications With Spectrum-Power Trading. IEEE Transactions on Wireless Communications, 2017, 16, 4404-4419.	9.2	68
75	Max-Min Fair Energy-Efficient Beamforming Design for Intelligent Reflecting Surface-Aided SWIPT Systems With Non-Linear Energy Harvesting Model. IEEE Transactions on Vehicular Technology, 2021, 70, 5848-5864.	6.3	68
76	Power Allocation for an Energy Harvesting Transmitter with Hybrid Energy Sources. IEEE Transactions on Wireless Communications, 2013, 12, 6255-6267.	9.2	65
77	Beamforming Optimization for IRS-Aided Communications With Transceiver Hardware Impairments. IEEE Transactions on Communications, 2021, 69, 1214-1227.	7.8	65
78	LEO Satellite Constellations for 5G and Beyond: How Will They Reshape Vertical Domains?. IEEE Communications Magazine, 2021, 59, 30-36.	6.1	63
79	Robust Beamforming for NOMA-Based Cellular Massive IoT With SWIPT. IEEE Transactions on Signal Processing, 2020, 68, 211-224.	5.3	61
80	Design, Analysis, and Optimization of a Large Intelligent Reflecting Surface-Aided B5G Cellular Internet of Things. IEEE Internet of Things Journal, 2020, 7, 8902-8916.	8.7	61
81	Spatial Modulation Assisted Multi-Antenna Non-Orthogonal Multiple Access. IEEE Wireless Communications, 2018, 25, 61-67.	9.0	60
82	Robust Chance-Constrained Optimization for Power-Efficient and Secure SWIPT Systems. IEEE Transactions on Green Communications and Networking, 2017, 1, 333-346.	5.5	59
83	Resource Allocation for a Massive MIMO Relay Aided Secure Communication. IEEE Transactions on Information Forensics and Security, 2016, 11, 1700-1711.	6.9	58
84	NOMA for Hybrid mmWave Communication Systems With Beamwidth Control. IEEE Journal on Selected Topics in Signal Processing, 2019, 13, 567-583.	10.8	58
85	Artificial Noise Assisted Secure Transmission for Distributed Antenna Systems. IEEE Transactions on Signal Processing, 2016, 64, 4050-4064.	5.3	57
86	Power-Efficient Resource Allocation for MC-NOMA with Statistical Channel State Information. , 2016, , .		56
87	Power-Efficient and Secure WPCNs With Hardware Impairments and Non-Linear EH Circuit. IEEE Transactions on Communications, 2018, 66, 2642-2657.	7.8	56
88	Robust Trajectory and Transmit Power Optimization for Secure UAV-Enabled Cognitive Radio Networks. IEEE Transactions on Communications, 2020, 68, 4022-4034.	7.8	56
89	Hybrid MAP and PIC Detection for OTFS Modulation. IEEE Transactions on Vehicular Technology, 2021, 70, 7193-7198.	6.3	56
90	Power allocation and scheduling for SWIPT systems with non-linear energy harvesting model. , 2016, , .		54

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91	NOMA in Downlink SDMA With Limited Feedback: Performance Analysis and Optimization. IEEE Journal on Selected Areas in Communications, 2017, 35, 2281-2294.	14.0	54
92	Cache-Enabled Physical Layer Security for Video Streaming in Backhaul-Limited Cellular Networks. IEEE Transactions on Wireless Communications, 2018, 17, 736-751.	9.2	54
93	Off-Grid Channel Estimation With Sparse Bayesian Learning for OTFS Systems. IEEE Transactions on Wireless Communications, 2022, 21, 7407-7426.	9.2	54
94	IRS-Assisted Green Communication Systems: Provable Convergence and Robust Optimization. IEEE Transactions on Communications, 2021, 69, 6313-6329.	7.8	52
95	Multi-Objective Resource Allocation for IRS-Aided SWIPT. IEEE Wireless Communications Letters, 2021, 10, 1324-1328.	5.0	50
96	Physical Layer Security Enhancement With Reconfigurable Intelligent Surface-Aided Networks. IEEE Transactions on Information Forensics and Security, 2021, 16, 3480-3495.	6.9	50
97	Robust Secure Beamforming Design for Two-User Downlink MISO Rate-Splitting Systems. IEEE Transactions on Wireless Communications, 2020, 19, 8351-8365.	9.2	49
98	Iterative Joint Channel Estimation, User Activity Tracking, and Data Detection for FTN-NOMA Systems Supporting Random Access. IEEE Transactions on Communications, 2020, 68, 2963-2977.	7.8	49
99	Low-Complexity MIMO Precoding for Finite-Alphabet Signals. IEEE Transactions on Wireless Communications, 2017, 16, 4571-4584.	9.2	46
100	Trajectory Design for UAV-Based Internet of Things Data Collection: A Deep Reinforcement Learning Approach. IEEE Internet of Things Journal, 2022, 9, 3899-3912.	8.7	46
101	Terahertz Ultra-Massive MIMO-Based Aeronautical Communications in Space-Air-Ground Integrated Networks. IEEE Journal on Selected Areas in Communications, 2021, 39, 1741-1767.	14.0	46
102	Reconfigurable Intelligent Surfaces-Assisted Multiuser MIMO Uplink Transmission With Partial CSI. IEEE Transactions on Wireless Communications, 2021, 20, 5613-5627.	9.2	46
103	Fairness Comparison of Uplink NOMA and OMA. , 2017, , .		45
104	Joint User Association and Resource Allocation in the Uplink of Heterogeneous Networks. IEEE Wireless Communications Letters, 2020, 9, 804-808.	5.0	45
105	Resource Allocation for Secure Multi-UAV Communication Systems With Multi-Eavesdropper. IEEE Transactions on Communications, 2020, 68, 4490-4506.	7.8	45
106	Intelligent Reflecting Surface-Assisted Multi-Antenna Covert Communications: Joint Active and Passive Beamforming Optimization. IEEE Transactions on Communications, 2021, 69, 3984-4000.	7.8	45
107	A Novel ISAC Transmission Framework Based on Spatially-Spread Orthogonal Time Frequency Space Modulation. IEEE Journal on Selected Areas in Communications, 2022, 40, 1854-1872.	14.0	45
108	Learning-Based Predictive Beamforming for UAV Communications With Jittering. IEEE Wireless Communications Letters, 2020, 9, 1970-1974.	5.0	44

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109	Resource Allocation for Power-Efficient IRS-Assisted UAV Communications. , 2020, , .		42
110	A Generalizable Model-and-Data Driven Approach for Open-Set RFF Authentication. IEEE Transactions on Information Forensics and Security, 2021, 16, 4435-4450.	6.9	42
111	Improving Sum-Rate of Cell-Free Massive MIMO With Expanded Compute-and-Forward. IEEE Transactions on Signal Processing, 2022, 70, 202-215.	5.3	42
112	Jamming-Resilient Frequency Hopping-Aided Secure Communication for Internet-of-Things in the Presence of an Untrusted Relay. IEEE Transactions on Wireless Communications, 2020, 19, 6771-6785.	9.2	41
113	Energy-efficient power allocation in OFDM systems with wireless information and power transfer. , 2013, , .		40
114	Cross-Layer Optimization of Fast Video Delivery in Cache- and Buffer-Enabled Relaying Networks. IEEE Transactions on Vehicular Technology, 2017, 66, 11366-11382.	6.3	40
115	Learning-Based Predictive Beamforming for Integrated Sensing and Communication in Vehicular Networks. IEEE Journal on Selected Areas in Communications, 2022, 40, 2317-2334.	14.0	40
116	Weighted Sum-Rate Maximization for Multi-IRS-Assisted Full-Duplex Systems With Hardware Impairments. IEEE Transactions on Cognitive Communications and Networking, 2021, 7, 466-481.	7.9	39
117	On the Power Leakage Problem in Millimeter-Wave Massive MIMO With Lens Antenna Arrays. IEEE Transactions on Signal Processing, 2019, 67, 4730-4744.	5.3	38
118	Double Intelligent Reflecting Surface-Assisted Multi-User MIMO Mmwave Systems With Hybrid Precoding. IEEE Transactions on Vehicular Technology, 2022, 71, 1575-1587.	6.3	37
119	Energy-Efficient Hybrid Beamforming for Multilayer RIS-Assisted Secure Integrated Terrestrial-Aerial Networks. IEEE Transactions on Communications, 2022, 70, 4189-4210.	7.8	37
120	A Tone-Based AoA Estimation and Multiuser Precoding for Millimeter Wave Massive MIMO. IEEE Transactions on Communications, 2017, 65, 5209-5225.	7.8	36
121	Channel Estimation for Semi-Passive Reconfigurable Intelligent Surfaces With Enhanced Deep Residual Networks. IEEE Transactions on Vehicular Technology, 2021, 70, 11083-11088.	6.3	36
122	Secure SWIPT Networks Based on a Non-Linear Energy Harvesting Model. , 2017, , .		35
123	Low-complexity MIMO precoding with discrete signals and statistical CSI. , 2016, , .		34
124	Design of Non-Orthogonal Beamspace Multiple Access for Cellular Internet-of-Things. IEEE Journal on Selected Topics in Signal Processing, 2019, 13, 538-552.	10.8	34
125	Distributed IRS With Statistical Passive Beamforming for MISO Communications. IEEE Wireless Communications Letters, 2021, 10, 221-225.	5.0	34
126	Joint Optimization of Analog Beam and User Scheduling for Millimeter Wave Communications. IEEE Communications Letters, 2017, 21, 2638-2641.	4.1	33

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127	Antenna Selection Strategy for Energy Efficiency Maximization in Uplink OFDMA Networks: A Multi-Objective Approach. IEEE Transactions on Wireless Communications, 2020, 19, 595-609.	9.2	33
128	Max-Min Energy Balance in Wireless-Powered Hierarchical Fog-Cloud Computing Networks. IEEE Transactions on Wireless Communications, 2020, 19, 7064-7080.	9.2	33
129	Cooperative Activity Detection: Sourced and Unsourced Massive Random Access Paradigms. IEEE Transactions on Signal Processing, 2020, 68, 6578-6593.	5.3	33
130	Resource Allocation for Active IRS-Assisted Multiuser Communication Systems. , 2021, , .		33
131	Resource allocation for secure communication in systems with wireless information and power transfer. , 2013, , .		32
132	Cascaded Channel Estimation for IRS-Assisted mmWave Multi-Antenna With Quantized Beamforming. IEEE Communications Letters, 2021, 25, 593-597.	4.1	32
133	Hybrid Beamforming for Massive MIMO Over-the-Air Computation. IEEE Transactions on Communications, 2021, 69, 2737-2751.	7.8	32
134	Resource allocation for coordinated multipoint networks with wireless information and power transfer. , 2014, , .		31
135	The Application of Relay to Massive Non-Orthogonal Multiple Access. IEEE Transactions on Communications, 2018, 66, 5168-5180.	7.8	31
136	Cache-Aided Non-Orthogonal Multiple Access: The Two-User Case. IEEE Journal on Selected Topics in Signal Processing, 2019, 13, 436-451.	10.8	31
137	Location-Aware Predictive Beamforming for UAV Communications: A Deep Learning Approach. IEEE Wireless Communications Letters, 2021, 10, 668-672.	5.0	31
138	Performance Analysis of a Hybrid Downlink-Uplink Cooperative NOMA Scheme. , 2017, , .		30
139	Energy-Efficient Resource Allocation for Secure UAV Communication Systems. , 2019, , .		30
140	Two-Way Hybrid Terrestrial-Satellite Relaying Systems: Performance Analysis and Relay Selection. IEEE Transactions on Vehicular Technology, 2019, 68, 7011-7023.	6.3	30
141	Time-Domain vs. Frequency-Domain Equalization for FTN Signaling. IEEE Transactions on Vehicular Technology, 2020, 69, 9174-9179.	6.3	30
142	Deep Residual Learning-Assisted Channel Estimation in Ambient Backscatter Communications. IEEE Wireless Communications Letters, 2021, 10, 339-343.	5.0	30
143	Multi-objective beamforming for secure communication in systems with wireless information and power transfer. , 2013, , .		29
144	Robust beamforming for SWIPT systems with non-linear energy harvesting model. , 2016, , .		29

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145	Energy-Efficient Small Cell With Spectrum-Power Trading. IEEE Journal on Selected Areas in Communications, 2016, 34, 3394-3408.	14.0	29
146	Secure Massive MIMO Communication With Low-Resolution DACs. IEEE Transactions on Communications, 2019, 67, 3265-3278.	7.8	29
147	Secure Communication for Spatially Sparse Millimeter-Wave Massive MIMO Channels via Hybrid Precoding. IEEE Transactions on Communications, 2020, 68, 887-901.	7.8	29
148	Energy-efficient resource allocation in OFDMA systems with large numbers of base station antennas. , 2012, , .		27
149	Joint Pilot and Payload Power Control for Uplink MIMO-NOMA With MRC-SIC Receivers. IEEE Communications Letters, 2018, 22, 692-695.	4.1	27
150	A Multi-Beam NOMA Framework for Hybrid mmWave Systems. , 2018, , .		27
151	Compressive Sensing-Based Joint Activity and Data Detection for Grant-Free Massive IoT Access. IEEE Transactions on Wireless Communications, 2022, 21, 1851-1869.	9.2	27
152	Optimal Resource Allocation Design for Large IRS-Assisted SWIPT Systems: A Scalable Optimization Framework. IEEE Transactions on Communications, 2022, 70, 1423-1441.	7.8	27
153	Secure Video Streaming in Heterogeneous Small Cell Networks With Untrusted Cache Helpers. IEEE Transactions on Wireless Communications, 2018, 17, 2645-2661.	9.2	26
154	Resource Allocation for Wireless-Powered Full-Duplex Relaying Systems With Nonlinear Energy Harvesting Efficiency. IEEE Transactions on Vehicular Technology, 2019, 68, 12079-12093.	6.3	26
155	Beamforming Design for Secure MISO Visible Light Communication Networks With SLIPT. IEEE Transactions on Communications, 2020, 68, 7795-7809.	7.8	26
156	Dual-Hop Relaying Communications Over Fisher-Snedecor F-Fading Channels. IEEE Transactions on Communications, 2020, 68, 2695-2710.	7.8	26
157	Max-min fair wireless energy transfer for secure multiuser communication systems. , 2014, , .		25
158	Secure Massive MIMO transmission in the presence of an active eavesdropper. , 2015, , .		25
159	Resource Allocation for Solar Powered UAV Communication Systems. , 2018, , .		25
160	On the Capacity of SWIPT Systems with a Nonlinear Energy Harvesting Circuit. , 2018, , .		25
161	Generalized Wireless-Powered Communications: When to Activate Wireless Power Transfer?. IEEE Transactions on Vehicular Technology, 2019, 68, 8243-8248.	6.3	25
162	Resource Allocation Design for IRS-Aided Downlink MU-MISO RSMA Systems. , 2021, , .		25

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163	Covertness and Timeliness of Data Collection in UAV-Aided Wireless-Powered IoT. IEEE Internet of Things Journal, 2022, 9, 12573-12587.	8.7	25
164	Energy-Efficient 5G Outdoor-to-Indoor Communication: SUDAS Over Licensed and Unlicensed Spectrum. IEEE Transactions on Wireless Communications, 2016, 15, 3170-3186.	9.2	24
165	Capacity of the Two-Hop Relay Channel With Wireless Energy Transfer From Relay to Source and Energy Transmission Cost. IEEE Transactions on Wireless Communications, 2017, 16, 647-662.	9.2	24
166	Joint Trajectory and Resource Allocation Design for UAV Communication Systems. , 2018, , .		24
167	Resource Allocation for Simultaneous Wireless Information and Power Transfer Systems: A Tutorial Overview. Proceedings of the IEEE, 2022, 110, 127-149.	21.3	24
168	Energy-efficient transmission for wireless powered multiuser communication networks. , 2015, , .		23
169	Three-Dimensional Placement and Transmit Power Design for UAV Covert Communications. IEEE Transactions on Vehicular Technology, 2021, 70, 13424-13429.	6.3	23
170	Secure layered transmission in multicast systems with wireless information and power transfer. , 2014, , .		22
171	Multi-objective resource allocation in full-duplex SWIPT systems. , 2016, , .		22
172	Robust Resource Allocation for UAV Systems with UAV Jittering and User Location Uncertainty. , 2018, , .		22
173	Multi-Quality Multicast Beamforming With Scalable Video Coding. IEEE Transactions on Communications, 2018, 66, 5662-5677.	7.8	22
174	Low-Cost Design of Massive Access for Cellular Internet of Things. IEEE Transactions on Communications, 2019, 67, 8008-8020.	7.8	22
175	Conditional Capacity and Transmit Signal Design for SWIPT Systems With Multiple Nonlinear Energy Harvesting Receivers. IEEE Transactions on Communications, 2020, 68, 582-601.	7.8	22
176	Energy Efficiency Evaluation of Multi-Tier Cellular Uplink Transmission Under Maximum Power Constraint. IEEE Transactions on Wireless Communications, 2017, 16, 7092-7107.	9.2	21
177	C-RAN With Hybrid RF/FSO Fronthaul Links: Joint Optimization of Fronthaul Compression and RF Time Allocation. IEEE Transactions on Communications, 2019, 67, 8678-8695.	7.8	21
178	User Grouping and Reflective Beamforming for IRS-Aided URLLC. IEEE Wireless Communications Letters, 2021, 10, 2533-2537.	5.0	21
179	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.	6.9	21
180	Integrating Sensing, Computing, and Communication in 6G Wireless Networks: Design and Optimization. IEEE Transactions on Communications, 2022, 70, 6212-6227.	7.8	21

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181	Multi-Objective Optimization for Power Efficient Full-Duplex Wireless Communication Systems. , 2015, , .		20
182	Covert Rate Optimization of Millimeter Wave Full-Duplex Communications. IEEE Transactions on Wireless Communications, 2022, 21, 2844-2861.	9.2	20
183	Achieving Covertness and Security in Broadcast Channels With Finite Blocklength. IEEE Transactions on Wireless Communications, 2022, 21, 7624-7640.	9.2	20
184	Energy-efficient power allocation for M2M communications with energy harvesting transmitter. , 2012, , .		19
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