

Robert Schober

List of Publications by Year in descending order

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381
papers

27,615
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9756

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391
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391
times ranked

13474
citing authors

#	ARTICLE	IF	CITATIONS
1	Autonomous Demand-Side Management Based on Game-Theoretic Energy Consumption Scheduling for the Future Smart Grid. IEEE Transactions on Smart Grid, 2010, 1, 320-331.	6.2	2,369
2	A Survey on Non-Orthogonal Multiple Access for 5G Networks: Research Challenges and Future Trends. IEEE Journal on Selected Areas in Communications, 2017, 35, 2181-2195.	9.7	1,775
3	Practical Non-Linear Energy Harvesting Model and Resource Allocation for SWIPT Systems. IEEE Communications Letters, 2015, 19, 2082-2085.	2.5	743
4	Simultaneous wireless information and power transfer in modern communication systems. , 2014, 52, 104-110.		737
5	Optimal Real-Time Pricing Algorithm Based on Utility Maximization for Smart Grid. , 2010, , .		712
6	Advanced Demand Side Management for the Future Smart Grid Using Mechanism Design. IEEE Transactions on Smart Grid, 2012, 3, 1170-1180.	6.2	654
7	Energy-Efficient Resource Allocation in OFDMA Systems with Large Numbers of Base Station Antennas. IEEE Transactions on Wireless Communications, 2012, 11, 3292-3304.	6.1	473
8	A General MIMO Framework for NOMA Downlink and Uplink Transmission Based on Signal Alignment. IEEE Transactions on Wireless Communications, 2016, 15, 4438-4454.	6.1	463
9	User Association in 5G Networks: A Survey and an Outlook. IEEE Communications Surveys and Tutorials, 2016, 18, 1018-1044.	24.8	462
10	Wireless Information and Power Transfer: Energy Efficiency Optimization in OFDMA Systems. IEEE Transactions on Wireless Communications, 2013, 12, 6352-6370.	6.1	458
11	Robust Beamforming for Secure Communication in Systems With Wireless Information and Power Transfer. IEEE Transactions on Wireless Communications, 2014, 13, 4599-4615.	6.1	455
12	Optimal Joint Power and Subcarrier Allocation for Full-Duplex Multicarrier Non-Orthogonal Multiple Access Systems. IEEE Transactions on Communications, 2017, 65, 1077-1091.	4.9	442
13	Robust and Secure Wireless Communications via Intelligent Reflecting Surfaces. IEEE Journal on Selected Areas in Communications, 2020, 38, 2637-2652.	9.7	435
14	An Overview of Sustainable Green 5G Networks. IEEE Wireless Communications, 2017, 24, 72-80.	6.6	427
15	Multiple-antenna techniques for wireless communications - a comprehensive literature survey. IEEE Communications Surveys and Tutorials, 2009, 11, 87-105.	24.8	405
16	Application of smart antenna technologies in simultaneous wireless information and power transfer. , 2015, 53, 86-93.		380
17	Transmit Antenna Selection for Security Enhancement in MIMO Wiretap Channels. IEEE Transactions on Communications, 2013, 61, 144-154.	4.9	355
18	Massive Access for 5G and Beyond. IEEE Journal on Selected Areas in Communications, 2021, 39, 615-637.	9.7	347

#	ARTICLE	IF	CITATIONS
19	Optimal and autonomous incentive-based energy consumption scheduling algorithm for smart grid. , 2010, , .		345
20	Energy-Efficient Resource Allocation in Multi-Cell OFDMA Systems with Limited Backhaul Capacity. IEEE Transactions on Wireless Communications, 2012, 11, 3618-3631.	6.1	330
21	Performance analysis of MIMO free-space optical systems in gamma-gamma fading. IEEE Transactions on Communications, 2009, 57, 3415-3424.	4.9	308
22	Energy-Efficient Resource Allocation for Wireless Powered Communication Networks. IEEE Transactions on Wireless Communications, 2016, 15, 2312-2327.	6.1	299
23	Energy-Efficient Resource Allocation for Secure OFDMA Systems. IEEE Transactions on Vehicular Technology, 2012, 61, 2572-2585.	3.9	296
24	Optimal 3D-Trajectory Design and Resource Allocation for Solar-Powered UAV Communication Systems. IEEE Transactions on Communications, 2019, 67, 4281-4298.	4.9	285
25	Robust Resource Allocation for MIMO Wireless Powered Communication Networks Based on a Non-Linear EH Model. IEEE Transactions on Communications, 2017, 65, 1984-1999.	4.9	270
26	Max-Max Relay Selection for Relays with Buffers. IEEE Transactions on Wireless Communications, 2012, 11, 1124-1135.	6.1	267
27	Secure Massive MIMO Transmission With an Active Eavesdropper. IEEE Transactions on Information Theory, 2016, 62, 3880-3900.	1.5	264
28	Secure Transmission in Multicell Massive MIMO Systems. IEEE Transactions on Wireless Communications, 2014, 13, 4766-4781.	6.1	257
29	Improving Receiver Performance of Diffusive Molecular Communication With Enzymes. IEEE Transactions on Nanobioscience, 2014, 13, 31-43.	2.2	240
30	Energy-Efficient Resource Allocation in OFDMA Systems with Hybrid Energy Harvesting Base Station. IEEE Transactions on Wireless Communications, 2013, 12, 3412-3427.	6.1	217
31	Enabling Secure Wireless Communications via Intelligent Reflecting Surfaces. , 2019, , .		210
32	Buffer-Aided Relaying with Adaptive Link Selection. IEEE Journal on Selected Areas in Communications, 2013, 31, 1530-1542.	9.7	206
33	Compressive Sensing-Based Adaptive Active User Detection and Channel Estimation: Massive Access Meets Massive MIMO. IEEE Transactions on Signal Processing, 2020, 68, 764-779.	3.2	205
34	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.	9.7	202
35	Physics-Based Modeling and Scalable Optimization of Large Intelligent Reflecting Surfaces. IEEE Transactions on Communications, 2021, 69, 2673-2691.	4.9	200
36	Spectral and Energy-Efficient Wireless Powered IoT Networks: NOMA or TDMA?. IEEE Transactions on Vehicular Technology, 2018, 67, 6663-6667.	3.9	198

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37	Simultaneously Transmitting and Reflecting (STAR) RIS Aided Wireless Communications. IEEE Transactions on Wireless Communications, 2022, 21, 3083-3098.	6.1	197
38	Optimal Receiver Design for Diffusive Molecular Communication With Flow and Additive Noise. IEEE Transactions on Nanobioscience, 2014, 13, 350-362.	2.2	196
39	Amplify-and-Forward Relay Selection with Outdated Channel Estimates. IEEE Transactions on Communications, 2012, 60, 1278-1290.	4.9	195
40	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.	3.9	190
41	Load Scheduling and Power Trading in Systems With High Penetration of Renewable Energy Resources. IEEE Transactions on Smart Grid, 2016, 7, 1802-1812.	6.2	183
42	Dynamic Resource Allocation in MIMO-OFDMA Systems with Full-Duplex and Hybrid Relaying. IEEE Transactions on Communications, 2012, 60, 1291-1304.	4.9	178
43	Direct Electricity Trading in Smart Grid: A Coalitional Game Analysis. IEEE Journal on Selected Areas in Communications, 2014, 32, 1398-1411.	9.7	171
44	Evolution of NOMA Toward Next Generation Multiple Access (NGMA) for 6G. IEEE Journal on Selected Areas in Communications, 2022, 40, 1037-1071.	9.7	168
45	Buffer-Aided Relaying With Adaptive Link Selection—Fixed and Mixed Rate Transmission. IEEE Transactions on Information Theory, 2013, 59, 2816-2840.	1.5	163
46	Resource Allocation for IRS-Assisted Full-Duplex Cognitive Radio Systems. IEEE Transactions on Communications, 2020, 68, 7376-7394.	4.9	162
47	Linear Precoding of Data and Artificial Noise in Secure Massive MIMO Systems. IEEE Transactions on Wireless Communications, 2016, 15, 2245-2261.	6.1	159
48	MISO Wireless Communication Systems via Intelligent Reflecting Surfaces : (Invited Paper). , 2019, , .		158
49	Secure and Green SWIPT in Distributed Antenna Networks With Limited Backhaul Capacity. IEEE Transactions on Wireless Communications, 2015, 14, 5082-5097.	6.1	153
50	Tackling the Load Uncertainty Challenges for Energy Consumption Scheduling in Smart Grid. IEEE Transactions on Smart Grid, 2013, 4, 1007-1016.	6.2	148
51	Residential Demand Side Management Under High Penetration of Rooftop Photovoltaic Units. IEEE Transactions on Smart Grid, 2016, 7, 1597-1608.	6.2	147
52	Mimicking Full-Duplex Relaying Using Half-Duplex Relays With Buffers. IEEE Transactions on Vehicular Technology, 2012, 61, 3025-3037.	3.9	145
53	Delay Minimization for NOMA-MEC Offloading. IEEE Signal Processing Letters, 2018, 25, 1875-1879.	2.1	144
54	Secure Transmission With Antenna Selection in MIMO Nakagami- m Fading Channels. IEEE Transactions on Wireless Communications, 2014, 13, 6054-6067.	6.1	142

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55	A Survey on Millimeter-Wave Beamforming Enabled UAV Communications and Networking. IEEE Communications Surveys and Tutorials, 2022, 24, 557-610.	24.8	135
56	Joint Power Allocation and Relay Selection in Energy Harvesting AF Relay Systems. IEEE Wireless Communications Letters, 2013, 2, 239-242.	3.2	134
57	Multi-Objective Optimization for Robust Power Efficient and Secure Full-Duplex Wireless Communication Systems. IEEE Transactions on Wireless Communications, 2016, 15, 5511-5526.	6.1	131
58	Relay Selection Protocols for Relay-Assisted Free-Space Optical Systems. Journal of Optical Communications and Networking, 2013, 5, 92.	3.3	129
59	Bit-interleaved coded modulation for hybrid RF/FSO systems. IEEE Transactions on Communications, 2009, 57, 3753-3763.	4.9	124
60	Resource Allocation for Secure IRS-Assisted Multiuser MISO Systems. , 2019, , .		117
61	Robust and Secure Resource Allocation for Full-Duplex MISO Multicarrier NOMA Systems. IEEE Transactions on Communications, 2018, 66, 4119-4137.	4.9	115
62	Fast multiple-symbol detection for free-space optical communications. IEEE Transactions on Communications, 2009, 57, 1119-1128.	4.9	112
63	Optimal Joint Power and Subcarrier Allocation for MC-NOMA Systems. , 2016, , .		110
64	Real-Time Pricing for Demand Response Based on Stochastic Approximation. IEEE Transactions on Smart Grid, 2014, 5, 789-798.	6.2	106
65	Millimeter-Wave Full-Duplex UAV Relay: Joint Positioning, Beamforming, and Power Control. IEEE Journal on Selected Areas in Communications, 2020, 38, 2057-2073.	9.7	105
66	Secure Resource Allocation and Scheduling for OFDMA Decode-and-Forward Relay Networks. IEEE Transactions on Wireless Communications, 2011, 10, 3528-3540.	6.1	99
67	OTFS-NOMA: An Efficient Approach for Exploiting Heterogenous User Mobility Profiles. IEEE Transactions on Communications, 2019, 67, 7950-7965.	4.9	98
68	Resource Allocation and Scheduling in Multi-Cell OFDMA Systems with Decode-and-Forward Relaying. IEEE Transactions on Wireless Communications, 2011, 10, 2246-2258.	6.1	95
69	EDFA-Based All-Optical Relaying in Free-Space Optical Systems. IEEE Transactions on Communications, 2012, 60, 3797-3807.	4.9	95
70	Power Efficient Resource Allocation for Full-Duplex Radio Distributed Antenna Networks. IEEE Transactions on Wireless Communications, 2016, 15, 2896-2911.	6.1	95
71	NOMA Assisted Wireless Caching: Strategies and Performance Analysis. IEEE Transactions on Communications, 2018, 66, 4854-4876.	4.9	92
72	Distributed transmit power allocation for multihop cognitive-radio systems. IEEE Transactions on Wireless Communications, 2009, 8, 5187-5201.	6.1	90

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73	Achievable Rate Region of the Bidirectional Buffer-Aided Relay Channel With Block Fading. IEEE Transactions on Information Theory, 2014, 60, 7090-7111.	1.5	89
74	On the Outage Performance of Non-Orthogonal Multiple Access With 1-bit Feedback. IEEE Transactions on Wireless Communications, 2016, 15, 6716-6730.	6.1	89
75	User-Centric Energy Efficiency Maximization for Wireless Powered Communications. IEEE Transactions on Wireless Communications, 2016, 15, 6898-6912.	6.1	88
76	MIMO Wiretap Channels: Secure Transmission Using Transmit Antenna Selection and Receive Generalized Selection Combining. IEEE Communications Letters, 2013, 17, 1754-1757.	2.5	87
77	Cross-Layer Scheduling for OFDMA Amplify-and-Forward Relay Networks. IEEE Transactions on Vehicular Technology, 2010, 59, 1443-1458.	3.9	86
78	Outage Analysis of Multihop Full Duplex Relaying. IEEE Communications Letters, 2013, 17, 63-66.	2.5	85
79	Energy-efficient resource allocation in multiuser OFDM systems with wireless information and power transfer. , 2013, , .		83
80	Comprehensive Reactive Receiver Modeling for Diffusive Molecular Communication Systems: Reversible Binding, Molecule Degradation, and Finite Number of Receptors. IEEE Transactions on Nanobioscience, 2016, 15, 713-727.	2.2	80
81	Analysis and Design of Secure Massive MIMO Systems in the Presence of Hardware Impairments. IEEE Transactions on Wireless Communications, 2017, 16, 2001-2016.	6.1	80
82	Smart and Reconfigurable Wireless Communications: From IRS Modeling to Algorithm Design. IEEE Wireless Communications, 2021, 28, 118-125.	6.6	75
83	Optimal energy consumption scheduling using mechanism design for the future smart grid. , 2011, , .		74
84	Joint Channel Parameter Estimation via Diffusive Molecular Communication. IEEE Transactions on Molecular, Biological, and Multi-Scale Communications, 2015, 1, 4-17.	1.4	73
85	IRS-Assisted Wireless Powered NOMA: Do We Really Need Different Phase Shifts in DL and UL?. IEEE Wireless Communications Letters, 2021, 10, 1493-1497.	3.2	73
86	Power Allocation for Conventional and Buffer-Aided Link Adaptive Relaying Systems with Energy Harvesting Nodes. IEEE Transactions on Wireless Communications, 2014, 13, 1182-1195.	6.1	69
87	Linear Precoding for the MIMO Multiple Access Channel With Finite Alphabet Inputs and Statistical CSI. IEEE Transactions on Wireless Communications, 2015, 14, 983-997.	6.1	68
88	Link Allocation for Multiuser Systems With Hybrid RF/FSO Backhaul: Delay-Limited and Delay-Tolerant Designs. IEEE Transactions on Wireless Communications, 2016, 15, 3281-3295.	6.1	66
89	NOMA Meets Finite Resolution Analog Beamforming in Massive MIMO and Millimeter-Wave Networks. IEEE Communications Letters, 2017, 21, 1879-1882.	2.5	66
90	Power Allocation for an Energy Harvesting Transmitter with Hybrid Energy Sources. IEEE Transactions on Wireless Communications, 2013, 12, 6255-6267.	6.1	65

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91	Adaptive L_1 -Norm Spectrum Sensing for Cognitive Radio Networks. IEEE Transactions on Communications, 2011, 59, 1934-1945.	4.9	63
92	Resource Management for Device-to-Device Communication: A Physical Layer Security Perspective. IEEE Journal on Selected Areas in Communications, 2018, 36, 946-960.	9.7	63
93	Resource Allocation for Multi-User Downlink MISO OFDMA-URLLC Systems. IEEE Transactions on Communications, 2020, 68, 7184-7200.	4.9	62
94	Bidirectional Buffer-Aided Relay Networks With Fixed Rate Transmission—Part II: Delay-Constrained Case. IEEE Transactions on Wireless Communications, 2015, 14, 1339-1355.	6.1	59
95	Robust Chance-Constrained Optimization for Power-Efficient and Secure SWIPT Systems. IEEE Transactions on Green Communications and Networking, 2017, 1, 333-346.	3.5	59
96	Throughput and Diversity Gain of Buffer-Aided Relaying. , 2011, , .		58
97	Combined relay selection and cooperative beamforming for physical layer security. Journal of Communications and Networks, 2012, 14, 364-373.	1.8	56
98	A Unifying Model for External Noise Sources and ISI in Diffusive Molecular Communication. IEEE Journal on Selected Areas in Communications, 2014, 32, 2330-2343.	9.7	56
99	Power-Efficient and Secure WPCNs With Hardware Impairments and Non-Linear EH Circuit. IEEE Transactions on Communications, 2018, 66, 2642-2657.	4.9	56
100	Stochastic Channel Modeling for Diffusive Mobile Molecular Communication Systems. IEEE Transactions on Communications, 2018, 66, 6205-6220.	4.9	55
101	On space-time coding for free-space optical systems. IEEE Transactions on Communications, 2010, 58, 58-62.	4.9	54
102	Cache-Enabled Physical Layer Security for Video Streaming in Backhaul-Limited Cellular Networks. IEEE Transactions on Wireless Communications, 2018, 17, 736-751.	6.1	54
103	Dynamic Decode-and-Forward Based Cooperative NOMA With Spatially Random Users. IEEE Transactions on Wireless Communications, 2018, 17, 3340-3356.	6.1	54
104	Using dimensional analysis to assess scalability and accuracy in molecular communication. , 2013, , .		53
105	Secure Transmission with Large Numbers of Antennas and Finite Alphabet Inputs. IEEE Transactions on Communications, 2017, , 1-1.	4.9	53
106	IRS-Assisted Green Communication Systems: Provable Convergence and Robust Optimization. IEEE Transactions on Communications, 2021, 69, 6313-6329.	4.9	52
107	Performance analysis of a multi-hop power line communication system over log-normal fading in presence of impulsive noise. IET Communications, 2015, 9, 1-9.	1.5	49
108	Low-Complexity MIMO Precoding for Finite-Alphabet Signals. IEEE Transactions on Wireless Communications, 2017, 16, 4571-4584.	6.1	46

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109	On the Design of Matched Filters for Molecule Counting Receivers. IEEE Communications Letters, 2017, 21, 1711-1714.	2.5	46
110	Simulating with AcCoRD: Actor-based Communication via Reactionâ€“Diffusion. Nano Communication Networks, 2017, 11, 44-75.	1.6	46
111	Optimal Beamforming for MISO Communications via Intelligent Reflecting Surfaces. , 2020, , .		46
112	Hybrid NOMA Offloading in Multi-User MEC Networks. IEEE Transactions on Wireless Communications, 2022, 21, 5377-5391.	6.1	45
113	An Analysis of Price Competition in Heterogeneous Electric Vehicle Charging Stations. IEEE Transactions on Smart Grid, 2019, 10, 3990-4002.	6.2	42
114	A Survey of Molecular Communication in Cell Biology: Establishing a New Hierarchy for Interdisciplinary Applications. IEEE Communications Surveys and Tutorials, 2021, 23, 1494-1545.	24.8	42
115	Optimization of Aggregate Capacity of PEVs for Frequency Regulation Service in Day-Ahead Market. IEEE Transactions on Smart Grid, 2018, 9, 3519-3529.	6.2	41
116	Energy-efficient power allocation in OFDM systems with wireless information and power transfer. , 2013, , .		40
117	Performance analysis of a power line communication system employing selection combining in correlated logâ€“normal channels and impulsive noise. IET Communications, 2014, 8, 1072-1082.	1.5	40
118	Coverage and Rate Analysis of Millimeter Wave NOMA Networks With Beam Misalignment. IEEE Transactions on Wireless Communications, 2018, 17, 8211-8227.	6.1	39
119	Diversity Analysis of Multi-User Multi-Relay Networks. IEEE Transactions on Wireless Communications, 2011, 10, 2380-2389.	6.1	38
120	Ion Channel Based Bio-Synthetic Modulator for Diffusive Molecular Communication. IEEE Transactions on Nanobioscience, 2016, 15, 418-432.	2.2	38
121	Equalization for DS-UWB Systemsâ€“Part I: BPSK Modulation. IEEE Transactions on Communications, 2007, 55, 1164-1173.	4.9	37
122	Performance and Optimization of Amplify-and-Forward Cooperative Diversity Systems in Generic Noise and Interference. IEEE Transactions on Wireless Communications, 2011, 10, 1132-1143.	6.1	37
123	Achievable Rates for the Fading Half-Duplex Single Relay Selection Network Using Buffer-Aided Relaying. IEEE Transactions on Wireless Communications, 2015, 14, 4494-4507.	6.1	36
124	On Noncoherent Receivers for DSTM in Spatially Correlated Fading. IEEE Transactions on Communications, 2009, 57, 2886-2890.	4.9	35
125	Performance of BICM-SC and BICM-OFDM systems with diversity reception in non-gaussian noise and interference. IEEE Transactions on Communications, 2009, 57, 3316-3327.	4.9	35
126	Bidirectional Buffer-Aided Relay Networks With Fixed Rate Transmissionâ€“Part I: Delay-Unconstrained Case. IEEE Transactions on Wireless Communications, 2015, 14, 1323-1338.	6.1	35

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127	Buffers Improve the Performance of Relay Selection. , 2011, , .		33
128	Sensing Time and Power Optimization in MIMO Cognitive Radio Networks. IEEE Transactions on Wireless Communications, 2012, 11, 3398-3408.	6.1	33
129	Resource Allocation for Active IRS-Assisted Multiuser Communication Systems. , 2021, , .		33
130	Nonorthogonal Transmission and Noncoherent Fusion of Censored Decisions. IEEE Transactions on Vehicular Technology, 2009, 58, 263-273.	3.9	32
131	Fixed Gain Amplify-and-Forward Relaying with Co-Channel Interference. , 2011, , .		32
132	Resource allocation for secure communication in systems with wireless information and power transfer. , 2013, , .		32
133	A Novel Wireless Communication Paradigm for Intelligent Reflecting Surface Based Symbiotic Radio Systems. IEEE Transactions on Signal Processing, 2022, 70, 550-565.	3.2	32
134	Error Rate Analysis for Coded Multicarrier Systems Over Quasi-Static Fading Channels. IEEE Transactions on Communications, 2007, 55, 1736-1746.	4.9	31
135	Coherent max-log decision fusion in wireless sensor networks. IEEE Transactions on Communications, 2010, 58, 1327-1332.	4.9	31
136	Error rate analysis of full-duplex relaying. , 2010, , .		31
137	Performance and Optimization of Network-Coded Cooperative Diversity Systems. IEEE Transactions on Communications, 2013, 61, 1111-1122.	4.9	31
138	Resource allocation for coordinated multipoint networks with wireless information and power transfer. , 2014, , .		31
139	Cache-Aided Non-Orthogonal Multiple Access: The Two-User Case. IEEE Journal on Selected Topics in Signal Processing, 2019, 13, 436-451.	7.3	31
140	Intelligent Reflecting Surface Enhanced Indoor Robot Path Planning: A Radio Map-Based Approach. IEEE Transactions on Wireless Communications, 2021, 20, 4732-4747.	6.1	31
141	Buffer-Aided Diamond Relay Network With Block Fading and Inter-Relay Interference. IEEE Transactions on Wireless Communications, 2016, 15, 7357-7372.	6.1	30
142	Pilot Spoofing Attack by Multiple Eavesdroppers. IEEE Transactions on Wireless Communications, 2018, 17, 6433-6447.	6.1	30
143	Performance Analysis and Enhancement of Multiband OFDM for UWB Communications. IEEE Transactions on Wireless Communications, 2007, 6, 2182-2192.	6.1	29
144	On the performance of non-coherent transmission schemes with equal-gain combining in generalized $\hat{\gamma}$ -fading. IEEE Transactions on Wireless Communications, 2010, 9, 1337-1349.	6.1	29

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145	Performance and Design of Coherent and Differential Space-Time Coded FSO Systems. Journal of Lightwave Technology, 2012, 30, 1569-1577.	2.7	29
146	Multi-objective beamforming for secure communication in systems with wireless information and power transfer. , 2013, , .		29
147	Analysis and design of two-hop diffusion-based molecular communication networks. , 2014, , .		29
148	Robust beamforming for SWIPT systems with non-linear energy harvesting model. , 2016, , .		29
149	Relay Subset Selection and Fair Power Allocation for Best and Partial Relay Selection in Generic Noise and Interference. IEEE Transactions on Wireless Communications, 2012, 11, 1828-1839.	6.1	28
150	Bounds on distance estimation via diffusive molecular communication. , 2014, , .		28
151	Symbol synchronization for diffusive molecular communication systems. , 2017, , .		28
152	Channel Estimation for IRS-Assisted Millimeter-Wave MIMO Systems: Sparsity-Inspired Approaches. IEEE Transactions on Communications, 2022, 70, 4078-4092.	4.9	28
153	Adaptive Lp-norm diversity combining in non-gaussian noise and interference. IEEE Transactions on Wireless Communications, 2009, 8, 4230-4240.	6.1	27
154	Coherent Wireless Optical Communications With Predetection and Postdetection EGC Over Gamma-Gamma Atmospheric Turbulence Channels. Journal of Optical Communications and Networking, 2011, 3, 860.	3.3	27
155	Diversity and Delay Analysis of Buffer-Aided BICM-OFDM Relaying. IEEE Transactions on Wireless Communications, 2013, 12, 5506-5519.	6.1	27
156	Buffer-Aided Relaying With Outdated CSI. IEEE Transactions on Wireless Communications, 2016, 15, 1979-1997.	6.1	27
157	Secure Video Streaming in Heterogeneous Small Cell Networks With Untrusted Cache Helpers. IEEE Transactions on Wireless Communications, 2018, 17, 2645-2661.	6.1	26
158	Stable Throughput Regions of Opportunistic NOMA and Cooperative NOMA With Full-Duplex Relaying. IEEE Transactions on Wireless Communications, 2018, 17, 5059-5075.	6.1	26
159	Joint Beamforming and Phase Shift Optimization for Multicell IRS-aided OFDMA-URLLC Systems. , 2021, , .		26
160	Random access for elastic and inelastic traffic in WLANs. IEEE Transactions on Wireless Communications, 2010, 9, 1861-1866.	6.1	25
161	Max-min fair wireless energy transfer for secure multiuser communication systems. , 2014, , .		25
162	Modeling Duct Flow for Molecular Communication. , 2018, , .		25

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163	Generalized Wireless-Powered Communications: When to Activate Wireless Power Transfer?. IEEE Transactions on Vehicular Technology, 2019, 68, 8243-8248.	3.9	25
164	Time-Domain Transmit Beamforming for MIMO-OFDM Systems with Finite Rate Feedback. IEEE Transactions on Communications, 2009, 57, 2828-2838.	4.9	24
165	Energy-Efficient 5G Outdoor-to-Indoor Communication: SUDAS Over Licensed and Unlicensed Spectrum. IEEE Transactions on Wireless Communications, 2016, 15, 3170-3186.	6.1	24
166	Resource Allocation for Simultaneous Wireless Information and Power Transfer Systems: A Tutorial Overview. Proceedings of the IEEE, 2022, 110, 127-149.	16.4	24
167	Hybrid Coherent/Energy Detection for Cognitive Radio Networks. IEEE Transactions on Wireless Communications, 2011, 10, 1594-1605.	6.1	23
168	Performance of a PLC system in impulsive noise with selection combining. , 2012, , .		23
169	Energy-efficient transmission for wireless powered multiuser communication networks. , 2015, , .		23
170	Three-Dimensional Placement and Transmit Power Design for UAV Covert Communications. IEEE Transactions on Vehicular Technology, 2021, 70, 13424-13429.	3.9	23
171	Performance Analysis of Decode-and-Forward Multi-Hop Communication: A Difference Equation Approach. IEEE Transactions on Communications, 2012, 60, 339-345.	4.9	22
172	Secure layered transmission in multicast systems with wireless information and power transfer. , 2014, , .		22
173	Diffusive molecular communication with disruptive flows. , 2014, , .		22
174	Performance Analysis of Free-Space Optical Systems in Gamma-Gamma Fading. , 2008, , .		21
175	Power Allocation in Energy Harvesting Relay Systems. , 2012, , .		21
176	Buffer-Aided Relaying With Discrete Transmission Rates for the Two-Hop Half-Duplex Relay Network. IEEE Transactions on Wireless Communications, 2017, 16, 967-981.	6.1	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.	4.9	21
178	Distributed channel selection and randomized interrogation algorithms for large-scale and dense RFID systems. IEEE Transactions on Wireless Communications, 2010, 9, 1402-1413.	6.1	20
179	The Diversity Potential of Relay Selection with Practical Channel Estimation. IEEE Transactions on Wireless Communications, 2013, 12, 481-493.	6.1	20
180	Data-Aided Secure Massive MIMO Transmission Under the Pilot Contamination Attack. IEEE Transactions on Communications, 2019, 67, 4765-4781.	4.9	20

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181	Error Rate Analysis for Coded Multicarrier Systems Over Quasi-Static Fading Channels. IEEE Transactions on Communications, 2007, 55, 1646-1646.	4.9	19
182	Multiple-symbol differential decision fusion for mobile wireless sensor networks. IEEE Transactions on Wireless Communications, 2010, 9, 778-790.	6.1	19
183	SINR-Based Random Access for Cognitive Radio: Distributed Algorithm and Coalitional Game. IEEE Transactions on Wireless Communications, 2011, 10, 3887-3897.	6.1	19
184	Relay Selection with Outdated Channel Estimates in Nakagami-m Fading. , 2011, , .		19
185	Cooperative Beamforming for Single-Carrier Frequency-Domain Equalization Systems with Multiple Relays. IEEE Transactions on Wireless Communications, 2012, 11, 2276-2286.	6.1	19
186	Energy-efficient power allocation for M2M communications with energy harvesting transmitter. , 2012, , .		19
187	Improving and Bounding Asymptotic Approximations for Diversity Combiners in Correlated Generalized Rician Fading. IEEE Transactions on Wireless Communications, 2014, 13, 736-748.	6.1	19
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