Bruno Clerckx

List of Publications by Year
in descending order

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207	8,891	66315	69214
papers	citations	42 h-index	77 g-index

208	208	208	4040
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Coordinated multipoint transmission and reception in LTE-advanced: deployment scenarios and operational challenges. , 2012, 50, 148-155.		582
2	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.	9.7	452
3	MIMO techniques in WiMAX and LTE: a feature overview. , 2010, 48, 86-92.		382
4	Communications and Signals Design for Wireless Power Transmission. IEEE Transactions on Communications, 2017, 65, 2264-2290.	4.9	353
5	Rate-splitting multiple access for downlink communication systems: bridging, generalizing, and outperforming SDMA and NOMA. Eurasip Journal on Wireless Communications and Networking, 2018, 2018, 133.	1.5	310
6	Waveform Design for Wireless Power Transfer. IEEE Transactions on Signal Processing, 2016, 64, 6313-6328.	3.2	268
7	Rate splitting for MIMO wireless networks: a promising PHY-layer strategy for LTE evolution. , 2016, 54, 98-105.		247
8	Sum-Rate Maximization for Linearly Precoded Downlink Multiuser MISO Systems With Partial CSIT: A Rate-Splitting Approach. IEEE Transactions on Communications, 2016, 64, 4847-4861.	4.9	242
9	Joint Wireless Information and Energy Transfer in a Two-User MIMO Interference Channel. IEEE Transactions on Wireless Communications, 2013, 12, 4210-4221.	6.1	205
10	Dual-polarized wireless communications: from propagation models to system performance evaluation. IEEE Transactions on Wireless Communications, 2008, 7, 4019-4031.	6.1	189
11	Rate-Splitting Unifying SDMA, OMA, NOMA, and Multicasting in MISO Broadcast Channel: A Simple Two-User Rate Analysis. IEEE Wireless Communications Letters, 2020, 9, 349-353.	3.2	163
12	A Rate Splitting Strategy for Massive MIMO with Imperfect CSIT. IEEE Transactions on Wireless Communications, 2016, , 1-1.	6.1	156
13	Rate-Splitting for Multi-Antenna Non-Orthogonal Unicast and Multicast Transmission: Spectral and Energy Efficiency Analysis. IEEE Transactions on Communications, 2019, 67, 8754-8770.	4.9	152
14	Robust Transmission in Downlink Multiuser MISO Systems: A Rate-Splitting Approach. IEEE Transactions on Signal Processing, 2016, 64, 6227-6242.	3.2	147
15	Wireless Information and Power Transfer: Nonlinearity, Waveform Design, and Rate-Energy Tradeoff. IEEE Transactions on Signal Processing, 2018, 66, 847-862.	3.2	142
16	Recent trend of multiuser MIMO in LTE-advanced. , 2013, 51, 127-135.		131
17	Rate-Splitting for Max-Min Fair Multigroup Multicast Beamforming in Overloaded Systems. IEEE Transactions on Wireless Communications, 2017, 16, 7276-7289.	6.1	121
18	Joint Wireless Information and Energy Transfer in a <inline-formula> <tex-math notation="TeX">K</tex-math></inline-formula>-User MIMO Interference Channel. IEEE Transactions on Wireless Communications, 2014, 13, 5781-5796.	6.1	111

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19	Resource Allocation Techniques for Wireless Powered Communication Networks With Energy Storage Constraint. IEEE Transactions on Wireless Communications, 2016, 15, 2619-2628.	6.1	107
20	Rate Analysis of Two-Receiver MISO Broadcast Channel With Finite Rate Feedback: A Rate-Splitting Approach. IEEE Transactions on Communications, 2015, 63, 3232-3246.	4.9	103
21	Impact of Antenna Coupling on 2 $imes$ 2 MIMO Communications. IEEE Transactions on Vehicular Technology, 2007, 56, 1009-1018.	3.9	102
22	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
23	Energy Efficiency of Rate-Splitting Multiple Access, and Performance Benefits over SDMA and NOMA. , 2018, , .		101
24	Multiple-antenna techniques in LTE-advanced. , 2012, 50, 114-121.		93
25	MIMO Systems with Limited Rate Differential Feedback in Slowly Varying Channels. IEEE Transactions on Communications, 2011, 59, 1175-1189.	4.9	81
26	Rate-Splitting to Mitigate Residual Transceiver Hardware Impairments in Massive MIMO Systems. IEEE Transactions on Vehicular Technology, 2017, 66, 8196-8211.	3.9	74
27	Low-Complexity Adaptive Multisine Waveform Design for Wireless Power Transfer. IEEE Antennas and Wireless Propagation Letters, 2017, 16, 2207-2210.	2.4	71
28	Correlated Fading in Broadcast MIMO Channels: Curse or Blessing?. , 2008, , .		69
29	Multi-User Linear Precoding for Multi-Polarized Massive MIMO System Under Imperfect CSIT. IEEE Transactions on Wireless Communications, 2015, 14, 2532-2547.	6.1	67
30	Beyond Dirty Paper Coding for Multi-Antenna Broadcast Channel With Partial CSIT: A Rate-Splitting Approach. IEEE Transactions on Communications, 2020, 68, 6775-6791.	4.9	65
31	Toward 1G Mobile Power Networks: RF, Signal, and System Designs to Make Smart Objects Autonomous. IEEE Microwave Magazine, 2018, 19, 69-82.	0.7	64
32	Multiuser Millimeter Wave Beamforming Strategies With Quantized and Statistical CSIT. IEEE Transactions on Wireless Communications, 2017, 16, 7025-7038.	6.1	61
33	Max-Min Fairness of K-User Cooperative Rate-Splitting in MISO Broadcast Channel With User Relaying. IEEE Transactions on Wireless Communications, 2020, 19, 6362-6376.	6.1	61
34	Rate-Splitting Multiple Access for Multigroup Multicast and Multibeam Satellite Systems. IEEE Transactions on Communications, 2021, 69, 976-990.	4.9	60
35	A New Design of Polar-Cap Differential Codebook for Temporally/Spatially Correlated MISO Channels. IEEE Transactions on Wireless Communications, 2012, 11, 703-711.	6.1	59
36	Rate-Splitting Multiple Access for Intelligent Reflecting Surface Aided Multi-User Communications. IEEE Transactions on Vehicular Technology, 2021, 70, 9217-9229.	3.9	59

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37	Joint Beamforming Design for Multi-User Wireless Information and Power Transfer. IEEE Transactions on Wireless Communications, 2014, 13, 6397-6409.	6.1	58
38	Does Frequent Low Resolution Feedback Outperform Infrequent High Resolution Feedback for Multiple Antenna Beamforming Systems?. IEEE Transactions on Signal Processing, 2011, 59, 1654-1669.	3.2	57
39	Wireless Power Transfer for Future Networks: Signal Processing, Machine Learning, Computing, and Sensing. IEEE Journal on Selected Topics in Signal Processing, 2021, 15, 1060-1094.	7.3	55
40	Large-Scale Multiantenna Multisine Wireless Power Transfer. IEEE Transactions on Signal Processing, 2017, 65, 5812-5827.	3.2	54
41	On the Beneficial Roles of Fading and Transmit Diversity in Wireless Power Transfer With Nonlinear Energy Harvesting. IEEE Transactions on Wireless Communications, 2018, 17, 7731-7743.	6.1	52
42	Rate-Splitting Multiple Access: A New Frontier for the PHY Layer of 6G. , 2020, , .		52
43	Waveform Design for Wireless Power Transfer With Limited Feedback. IEEE Transactions on Wireless Communications, 2018, 17, 415-429.	6.1	50
44	Rate-Splitting Multiple Access to Mitigate the Curse of Mobility in (Massive) MIMO Networks. IEEE Transactions on Communications, 2021, 69, 6765-6780.	4.9	50
45	Rate-Splitting for Multi-User Multi-Antenna Wireless Information and Power Transfer. , 2019, , .		49
46	Cooperative Rate Splitting for MISO Broadcast Channel With User Relaying, and Performance Benefits Over Cooperative NOMA. IEEE Signal Processing Letters, 2019, 26, 1678-1682.	2.1	48
47	Deterministic channel modeling and performance simulation of microcellular wide-band communication systems. IEEE Transactions on Vehicular Technology, 2002, 51, 1422-1430.	3.9	46
48	Signal and System Design for Wireless Power Transfer: Prototype, Experiment and Validation. IEEE Transactions on Wireless Communications, 2020, 19, 7453-7469.	6.1	46
49	Subcarrier Index Modulation for Future Wireless Networks: Principles, Applications, and Challenges. IEEE Wireless Communications, 2020, 27, 118-125.	6.6	46
50	Modeling and Architecture Design of Reconfigurable Intelligent Surfaces Using Scattering Parameter Network Analysis. IEEE Transactions on Wireless Communications, 2022, 21, 1229-1243.	6.1	45
51	Optimal DoF Region of the K -User MISO BC With Partial CSIT. IEEE Communications Letters, 2017, 21, 2368-2371.	2.5	44
52	Joint Wireless Information and Energy Transfer with Reduced Feedback in MIMO Interference Channels. IEEE Journal on Selected Areas in Communications, 2015, , 1-1.	9.7	43
53	Channel Characterization of Indoor Wireless Personal Area Networks. IEEE Transactions on Antennas and Propagation, 2006, 54, 3143-3150.	3.1	42
54	MISO Networks With Imperfect CSIT: A Topological Rate-Splitting Approach. IEEE Transactions on Communications, 2017, 65, 2164-2179.	4.9	42

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55	Rate-Splitting Multiple Access for Multi-Antenna Joint Radar and Communications. IEEE Journal on Selected Topics in Signal Processing, 2021, 15, 1332-1347.	7.3	41
56	Achievable DoF Regions of MIMO Networks With Imperfect CSIT. IEEE Transactions on Information Theory, 2017, 63, 6587-6606.	1.5	40
57	Relaying Strategies for Wireless-Powered MIMO Relay Networks. IEEE Transactions on Wireless Communications, 2016, 15, 6033-6047.	6.1	39
58	Downlink and Uplink Decoupling in Two-Tier Heterogeneous Networks With Multi- Antenna Base Stations. IEEE Transactions on Wireless Communications, 2017, 16, 2760-2775.	6.1	39
59	MU-MIMO with Channel Statistics-Based Codebooks in Spatially Correlated Channels. , 2008, , .		38
60	Wireless information and power transfer over an AWGN channel: Nonlinearity and asymmetric Gaussian signaling. , 2017, , .		38
61	Impact of fading correlations on MIMO communication systems in geometry-based statistical channel models. IEEE Transactions on Wireless Communications, 2005, 4, 1112-1120.	6.1	37
62	A Practical Cooperative Multicell MIMO-OFDMA Network Based on Rank Coordination. IEEE Transactions on Wireless Communications, 2013, 12, 1481-1491.	6.1	37
63	Wirelessly Powered Backscatter Communications: Waveform Design and SNR-Energy Tradeoff. IEEE Communications Letters, 2017, 21, 2234-2237.	2.5	37
64	On coded caching in the overloaded MISO broadcast channel. , 2017, , .		37
65	Rate-Splitting Multiple Access for Overloaded Cellular Internet of Things. IEEE Transactions on Communications, 2021, 69, 4504-4519.	4.9	36
66	Foundations of Wireless Information and Power Transfer: Theory, Prototypes, and Experiments. Proceedings of the IEEE, 2022, 110, 8-30.	16.4	36
67	Rate-Splitting Multiple Access for Multi-Antenna Downlink Communication Systems: Spectral and Energy Efficiency Tradeoff. IEEE Transactions on Wireless Communications, 2022, 21, 4816-4828.	6.1	35
68	Rate-Splitting Multiple Access for Coordinated Multi-Point Joint Transmission. , 2019, , .		34
69	Multiuser Wirelessly Powered Backscatter Communications: Nonlinearity, Waveform Design, and SINR-Energy Tradeoff. IEEE Transactions on Wireless Communications, 2019, 18, 241-253.	6.1	34
70	Rate Splitting Multiple Access in C-RAN: A Scalable and Robust Design. IEEE Transactions on Communications, 2021, 69, 5727-5743.	4.9	34
71	Waveform optimization for Wireless Power Transfer with nonlinear energy harvester modeling. , 2015, , .		33
72	Cooperative Rate-Splitting for Secrecy Sum-Rate Enhancement in Multi-antenna Broadcast Channels. , 2020, , .		32

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73	Beamforming Optimization for MIMO Wireless Power Transfer With Nonlinear Energy Harvesting: RF Combining Versus DC Combining. IEEE Transactions on Wireless Communications, 2021, 20, 199-213.	6.1	32
74	3GPP LTE and LTE-Advanced. Eurasip Journal on Wireless Communications and Networking, 2009, 2009, .	1.5	31
75	Limited Feedback Beamforming Systems for Dual-Polarized MIMO Channels. IEEE Transactions on Wireless Communications, 2010, 9, 3425-3439.	6.1	31
76	Rate-Splitting Multiple Access for Downlink Multi-Antenna Communications: Physical Layer Design and Link-level Simulations. , 2020, , .		31
77	Joint Power and Subcarrier Allocation Optimization for Multigroup Multicast Systems With Rate Splitting. IEEE Transactions on Vehicular Technology, 2020, 69, 2306-2310.	3.9	30
78	Joint Wireless Information and Power Transfer for an Autonomous Multiple Antenna Relay System. IEEE Communications Letters, 2015, 19, 1113-1116.	2.5	29
79	Rate-Splitting for Multi-Antenna Non-Orthogonal Unicast and Multicast Transmission. , 2018, , .		29
80	Rate-Splitting Multiple Access for Downlink Multiuser MIMO: Precoder Optimization and PHY-Layer Design. IEEE Transactions on Communications, 2022, 70, 874-890.	4.9	29
81	Interference alignment with limited feedback for two-cell interfering MIMO-MAC. , 2012, , .		28
82	Generalized Precoder Designs Based on Weighted MMSE Criterion for Energy Harvesting Constrained MIMO Channels. IEEE Transactions on Wireless Communications, 2016, , 1-1.	6.1	28
83	Sum rate maximization for MU-MISO with partial CSIT using Joint Multicasting and Broadcasting. , 2015, , .		27
84	Prototyping and experimentation of a closed-loop wireless power transmission with channel acquisition and waveform optimization. , 2017, , .		27
85	Linear Precoding and Stream Combining for Rate Splitting in Multiuser MIMO Systems. IEEE Communications Letters, 2020, 24, 890-894.	2.5	26
86	Rate-Splitting Multiple Access for 6Gâ€”Part III: Interplay With Reconfigurable Intelligent Surfaces. IEEE Communications Letters, 2022, 26, 2242-2246.	2.5	24
87	System level performance evaluation of inter-cell interference coordination schemes for heterogeneous networks in LTE-A system. , 2010, , .		23
88	Analysis and Optimization of Inter-Tier Interference Coordination in Downlink Multi-Antenna HetNets With Offloading. IEEE Transactions on Wireless Communications, 2015, 14, 6550-6564.	6.1	23
89	Differential Rotation Feedback MIMO System for Temporally Correlated Channels. , 2008, , .		22
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91	A rate-splitting strategy for max-min fair multigroup multicasting. , 2016, , .		22
92	Hybrid Precoding for Physical Layer Multicasting. IEEE Communications Letters, 2016, 20, 228-231.	2.5	22
93	Rate-Splitting Multiple Access for Multibeam Satellite Communications. , 2020, , .		22
94	Waveform and Beamforming Design for Intelligent Reflecting Surface Aided Wireless Power Transfer: Single-User and Multi-User Solutions. IEEE Transactions on Wireless Communications, 2022, 21, 5346-5361.	6.1	22
95	Rate-Splitting Assisted Massive Machine-Type Communications in Cell-Free Massive MIMO. IEEE Communications Letters, 2022, 26, 1358-1362.	2.5	22
96	Explicit vs. Implicit Feedback for SU and MU-MIMO. , 2010, , .		21
97	On Capacity-Achieving Distributions for Complex AWGN Channels Under Nonlinear Power Constraints and Their Applications to SWIPT. IEEE Transactions on Information Theory, 2020, 66, 6488-6508.	1.5	21
98	Joint Waveform and Beamforming Optimization for MIMO Wireless Power Transfer. IEEE Transactions on Communications, 2021, 69, 5441-5455.	4.9	21
99	Rate-Splitting Multiple Access for 6Gâ€”Part I: Principles, Applications and Future Works. IEEE Communications Letters, 2022, 26, 2232-2236.	2.5	21
100	Rate-Splitting Multiple Access for Multi-Antenna Joint Communication and Radar Transmissions. , 2020, , .		20
101	Rate-Splitting Multiple Access With Finite Blocklength for Short-Packet and Low-Latency Downlink Communications. IEEE Transactions on Vehicular Technology, 2022, 71, 12333-12337.	3.9	20
102	Reconfigurable Intelligent Surfaces Relying on Non-Diagonal Phase Shift Matrices. IEEE Transactions on Vehicular Technology, 2022, 71, 6367-6383.	3.9	19
103	Hierarchical Interference Alignment for Heterogeneous Networks with Multiple Antennas. , 2011, , .		18
104	On the Capacity of Vector Gaussian Channels With Bounded Inputs. IEEE Transactions on Information Theory, 2016, 62, 6884-6903.	1.5	18
105	Rate-Splitting Multiple Access for Multigateway Multibeam Satellite Systems With Feeder Link Interference. IEEE Transactions on Communications, 2022, 70, 2147-2162.	4.9	18
106	Allocation of Feedback Bits Among Users in Broadcast MIMO Channels. , 2008, , .		17
107	Transmit Beamforming for MISO Broadcast Channels With Statistical and Delayed CSIT. IEEE Transactions on Communications, 2015, 63, 1202-1215.	4.9	17
108	An Analysis of the Optimum Node Density for Simultaneous Wireless Information and Power Transfer in Ad Hoc Networks. IEEE Transactions on Vehicular Technology, 2018, 67, 2713-2726.	3.9	17

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109	Generalized Degrees of Freedom of the Symmetric Cache-Aided MISO Broadcast Channel With Partial CSIT. IEEE Transactions on Information Theory, 2019, 65, 5799-5815.	1.5	17
110	Experimental Analysis of Harvested Energy and Throughput Trade-off in a Realistic SWIPT System. , 2019, , .		17
111	Wireless Power Transfer With Distributed Antennas: System Design, Prototype, and Experiments. IEEE Transactions on Industrial Electronics, 2021, 68, 10868-10878.	5.2	17
112	MIMO broadcasting for simultaneous wireless information and power transfer: Weighted MMSE approaches. , 2014, , .		16
113	Tomlinson-Harashima Precoded Rate-Splitting for Multiuser Multiple-Antenna Systems. , 2018, , .		16
114	A Learning Approach to Wireless Information and Power Transfer Signal and System Design. , 2019, , .		16
115	IRS-Aided SWIPT: Joint Waveform, Active and Passive Beamforming Design Under Nonlinear Harvester Model. IEEE Transactions on Communications, 2022, 70, 1345-1359.	4.9	16
116	Rate-Splitting Multiple Access for Communications and Jamming in Multi-Antenna Multi-Carrier Cognitive Radio Systems. IEEE Transactions on Information Forensics and Security, 2022, 17, 628-643.	4.5	16
117	Fully Connected Reconfigurable Intelligent Surface Aided Rate-Splitting Multiple Access for Multi-User Multi-Antenna Transmission. , 2022, , .		16
118	Asymmetric Modulation Design for Wireless Information and Power Transfer With Nonlinear Energy Harvesting. IEEE Transactions on Wireless Communications, 2019, 18, 5529-5541.	6.1	15
119	Rate Splitting for Multi-Group Multicasting With a Common Message. IEEE Transactions on Vehicular Technology, 2020, 69, 12281-12285.	3.9	15
120	Rate-Splitting Multiple Access for Joint Radar-Communications with Low-Resolution DACs. , 2021, , .		15
121	Differential codebook for general rotated dual-polarized MISO channels. , 2012, , .		14
122	Degrees-of-freedom of the K-user MISO interference channel with delayed local CSIT. , 2015, , .		14
123	User-Centric Interference Nulling in Downlink Multi-Antenna Heterogeneous Networks. IEEE Transactions on Wireless Communications, 2016, 15, 7484-7500.	6.1	14
124	Rate-Splitting Multiple Access for Multi-Antenna Broadcast Channels with Statistical CSIT. , 2021, , .		14
125	An Upper Bound for the Capacity of Amplitude-Constrained Scalar AWGN Channel. IEEE Communications Letters, 2016, 20, 1924-1926.	2.5	13
126	Optimal Operation of Multitone Waveforms in Low RF-Power Receivers. , 2018, , .		13

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127	Learning to Communicate and Energize: Modulation, Coding, and Multiple Access Designs for Wireless Information-Power Transmission. IEEE Transactions on Communications, 2020, 68, 6822-6839.	4.9	13
128	Rate Splitting Multiple Access in C-RAN. , 2020, , .		13
129	On the Convex Properties of Wireless Power Transfer With Nonlinear Energy Harvesting. IEEE Transactions on Vehicular Technology, 2020, 69, 5672-5676.	3.9	13
130	Globally Optimal Beamforming for Rate Splitting Multiple Access. , 2021, , .		13
131	Modeling Outdoor Macrocellular Clusters Based on 1.9-GHz Experimental Data. IEEE Transactions on Vehicular Technology, 2007, 56, 2821-2830.	3.9	12
132	Rate-Splitting Multiple Access in Cache-Aided Cloud-Radio Access Networks. Frontiers in Communications and Networks, 2021, 2, .	1.9	12
133	Energy Efficient Dual-Functional Radar-Communication: Rate-Splitting Multiple Access, Low-Resolution DACs, and RF Chain Selection. IEEE Open Journal of the Communications Society, 2022, 3, 986-1006.	4.4	12
134	Waveform optimization for large-scale multi-antenna multi-sine wireless power transfer. , 2016, , .		11
135	DoF Analysis of the MIMO Broadcast Channel With Alternating/Hybrid CSIT. IEEE Transactions on Information Theory, 2016, 62, 1312-1325.	1.5	11
136	On the Optimality of Treating Inter-Cell Interference as Noise in Uplink Cellular Networks. IEEE Transactions on Information Theory, 2019, 65, 7208-7232.	1.5	11
137	On the Separability of Parallel MISO Broadcast Channels Under Partial CSIT: A Degrees of Freedom Region Perspective. IEEE Transactions on Information Theory, 2020, 66, 4513-4529.	1.5	11
138	Tomlinson-Harashima Precoded Rate-Splitting With Stream Combiners for MU-MIMO Systems. IEEE Transactions on Communications, 2021, 69, 3833-3845.	4.9	11
139	Design and Performance of Spaceâ€“Time Codes for Spatially Correlated MIMO Channels. IEEE Transactions on Communications, 2007, 55, 64-68.	4.9	10
140	Multiuser MIMO Downlink Made Practical: Application to IEEE 802.16m. , 2009, , .		10
141	Leveraging temporal correlation for limited feedback multiple antennas systems. , 2010, , .		10
142	Simultaneous Wireless Information and Power Transfer in a two-user OFDM Interference Channel. , 2015, , .		10
143	Achievable Sum DoF of the K-User MIMO Interference Channel with Delayed CSIT. IEEE Transactions on Communications, 2016, , 1-1.	4.9	10
144	A Rate Splitting Strategy for Mitigating Intra-Cell Pilot Contamination in Massive MIMO. , 2020, , .		10

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145	Rate-Splitting Multiple Access for 6Gâ€"Part II: Interplay With Integrated Sensing and Communications. IEEE Communications Letters, 2022, 26, 2237-2241.	2.5	10
146	Regularized channel inversion with quantized feedback in down-link multiuser channels. IEEE Transactions on Wireless Communications, 2009, 8, 5785-5789.	6.1	9
147	Modulation Design for Wireless Information and Power Transfer with Nonlinear Energy Harvester Modeling. , 2018, , .		9
148	On the Optimality of Treating Inter-Cell Interference as Noise: Downlink Cellular Networks and Uplink-Downlink Duality. IEEE Transactions on Information Theory, 2020, 66, 6939-6961.	1.5	9
149	Range Expansion for Wireless Power Transfer Using Joint Beamforming and Waveform Architecture: An Experimental Study in Indoor Environment. IEEE Wireless Communications Letters, 2021, 10, 1237-1241.	3.2	9
150	Rate-Splitting Multiple Access for Multigroup Multicast Cellular and Satellite Communications: PHY Layer Design and Link-Level Simulations. , 2021, , .		9
151	Rate-Splitting Multiple Access for Enhanced URLLC and eMBB in 6G: Invited Paper. , 2021, , .		9
152	A Unified Scheme to Achieve the Degrees-of-Freedom Region of the MIMO Interference Channel With Delayed Channel State Information. IEEE Transactions on Communications, 2016, 64, 1068-1082.	4.9	8
153	Guest Editorial Wireless Transmission of Information and Powerâ€"Part I. IEEE Journal on Selected Areas in Communications, 2019, 37, 1-3.	9.7	8
154	Multi-Antenna Joint Radar and Communications: Precoder Optimization and Weighted Sum-Rate vs Probing Power Tradeoff. IEEE Access, 2020, 8, 173974-173982.	2.6	8
155	Wireless Information and Power Transfer for IoT: Pulse Position Modulation, Integrated Receiver, and Experimental Validation. IEEE Internet of Things Journal, 2022, 9, 12378-12394.	5.5	8
156	Limited Feedback Beamforming Codebook Design for Dual-Polarized MIMO Channels. , 2008, , .		7
157	Space-Time Encoded MISO Broadcast Channel With Outdated CSIT: An Error Rate and Diversity Performance Analysis. IEEE Transactions on Communications, 2015, 63, 1661-1675.	4.9	7
158	Learning Modulation Design for SWIPT with Nonlinear Energy Harvester: Large and Small Signal Power Regimes. , 2019, , .		7
159	Dynamic RF Combining for Multi-Antenna Ambient Energy Harvesting. IEEE Wireless Communications Letters, 2022, 11, 493-497.	3.2	7
160	Rank Recommendation-Based Coordinated Scheduling for Interference Mitigation in Cellular Networks. , 2011, , .		6
161	Multi-User MIMO. , 2013, , 419-523.		6
162	AMMSE optimization for multiuser MISO systems with imperfect CSIT and perfect CSIR. , 2014, , .		6

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163	Mitigation of phase noise in massive MIMO systems: A rate-splitting approach. , 2017, , .		6
164	SWIPT Signaling Over Frequency-Selective Channels With a Nonlinear Energy Harvester: Non-Zero Mean and Asymmetric Inputs. IEEE Transactions on Communications, 2019, 67, 7195-7210.	4.9	6
165	On Multi-Cell Uplink-Downlink Duality with Treating Inter-Cell Interference as Noise. , 2019, , .		6
166	DoF Region of the MISO BC with Partial CSIT: Proof by Inductive Fourier-Motzkin Elimination. , 2019, , .		6
167	A Rate-Splitting Strategy to Enable Joint Radar Sensing and Communication with Partial CSIT. , 2021, , .		6
168	A Feedback Update Control Scheme for Limited Feedback Multiple Antennas Systems. , 2010, , .		5
169	Achieving max-min fairness for MU-MISO with partial CSIT: A multicast assisted transmission. , 2015, , .		5
170	Joint wireless information and power transfer in a three-node autonomous MIMO relay network. , 2015, , .		5
171	A hierarchical rate splitting strategy for FDD massive MIMO under imperfect CSIT. , 2015, , .		5
172	Enhancing LTE with Cloud-RAN and Load-Controlled Parasitic Antenna Arrays. , 2016, 54, 183-191.		5
173	Robust Wireless Power Receiver for Multi-Tone Waveforms. , 2019, , .		5
174	Rate Splitting With Finite Constellations: The Benefits of Interference Exploitation vs Suppression. IEEE Open Journal of the Communications Society, 2021, 2, 1541-1557.	4.4	5
175	MIMO Precoder Selections in Decode-Forward Relay Networks with Finite Feedback. IEEE Transactions on Communications, 2011, 59, 1785-1790.	4.9	4
176	Two-Cell MISO Interfering Broadcast Channel with Limited Feedback: Adaptive Feedback Strategy and Multiplexing Gains. , 2011, , .		4
177	MISO Broadcast Channel with imperfect and (Un)matched CSIT in the frequency domain: DoF region and transmission strategies. , 2013, , .		4
178	Lattice Reduction-Aided Successive Interference Cancelation for MIMO Interference Channels. IEEE Transactions on Vehicular Technology, 2014, 63, 4131-4135.	3.9	4
179	A New Proof for the DoF Region of the MIMO Networks With No CSIT. IEEE Communications Letters, 2015, 19, 763-766.	2.5	4
180	On the Optimality of Treating Interference as Noise for Interfering Multiple Access Channels. , 2018, , .		4

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181	Centralized and Decentralized Cache-Aided Interference Management in Heterogeneous Parallel Channels. IEEE Transactions on Communications, 2020, 68, 1881-1896.	4.9	4
182	Multi-User Linear Precoding in Massively Distributed Polarized Antenna Systems Under Imperfect CSIT. IEEE Transactions on Vehicular Technology, 2020, 69, 5268-5280.	3.9	4
183	User-centric interference nulling in downlink multi-antenna heterogeneous networks. , 2015, , .		3
184	A rate-splitting approach to robust multiuser MISO transmission. , 2016, , .		3
185	Robust Cache-Aided Interference Management Under Full Transmitter Cooperation. , 2018, , .		3
186	SWIPT Signalling over Complex AWGN Channels with Two Nonlinear Energy Harvester Models. , 2018, , .		3
187	Treating Interference as Noise in Cellular Networks: A Stochastic Geometry Approach. IEEE Transactions on Wireless Communications, 2020, 19, 1918-1932.	6.1	3
188	Rate Splitting Multiple Access for Multi-Antenna Multi-Carrier Joint Communications and Jamming. , 2021, , .		3
189	Cooperative communications in 3GPP LTE-Advanced standard. , 0, , 425-461.		2
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