

# Bruno Clerckx

## List of Publications by Year in descending order

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207  
papers

8,891  
citations

66315

42  
h-index

69214

77  
g-index

208  
all docs

208  
docs citations

208  
times ranked

4040  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	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
4	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
5	Dynamic RF Combining for Multi-Antenna Ambient Energy Harvesting. IEEE Wireless Communications Letters, 2022, 11, 493-497.	3.2	7
6	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
7	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
8	Foundations of Wireless Information and Power Transfer: Theory, Prototypes, and Experiments. Proceedings of the IEEE, 2022, 110, 8-30.	16.4	36
9	Rate-Splitting Multiple Access for Multigateway Multibeam Satellite Systems With Feeder Link Interference. IEEE Transactions on Communications, 2022, 70, 2147-2162.	4.9	18
10	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
11	Rate-Splitting Assisted Massive Machine-Type Communications in Cell-Free Massive MIMO. IEEE Communications Letters, 2022, 26, 1358-1362.	2.5	22
12	Reconfigurable Intelligent Surfaces Relying on Non-Diagonal Phase Shift Matrices. IEEE Transactions on Vehicular Technology, 2022, 71, 6367-6383.	3.9	19
13	Waveform Optimization for Wireless Power Transfer with Power Amplifier and Energy Harvester Non-linearities. , 2022, , .		2
14	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
15	Rate-Splitting Multiple Access for 6G—Part III: Interplay With Reconfigurable Intelligent Surfaces. IEEE Communications Letters, 2022, 26, 2242-2246.	2.5	24
16	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
17	Rate-Splitting Multiple Access for 6G—Part II: Interplay With Integrated Sensing and Communications. IEEE Communications Letters, 2022, 26, 2237-2241.	2.5	10
18	Rate-Splitting Multiple Access for 6G—Part I: Principles, Applications and Future Works. IEEE Communications Letters, 2022, 26, 2232-2236.	2.5	21

#	ARTICLE	IF	CITATIONS
19	Fully Connected Reconfigurable Intelligent Surface Aided Rate-Splitting Multiple Access for Multi-User Multi-Antenna Transmission. , 2022, , .		16
20	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
21	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
22	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
23	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
24	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
25	Rate-Splitting Multiple Access for Multigroup Multicast and Multibeam Satellite Systems. IEEE Transactions on Communications, 2021, 69, 976-990.	4.9	60
26	Rate-Splitting Multiple Access for Multi-Antenna Broadcast Channels with Statistical CSIT. , 2021, , .		14
27	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
28	Tomlinson-Harashima Precoded Rate-Splitting With Stream Combiners for MU-MIMO Systems. IEEE Transactions on Communications, 2021, 69, 3833-3845.	4.9	11
29	Globally Optimal Beamforming for Rate Splitting Multiple Access. , 2021, , .		13
30	Rate-Splitting Multiple Access for Joint Radar-Communications with Low-Resolution DACs. , 2021, , .		15
31	Rate-Splitting Multiple Access for Multigroup Multicast Cellular and Satellite Communications: PHY Layer Design and Link-Level Simulations. , 2021, , .		9
32	Rate-Splitting Multiple Access for Overloaded Cellular Internet of Things. IEEE Transactions on Communications, 2021, 69, 4504-4519.	4.9	36
33	Joint Waveform and Beamforming Optimization for MIMO Wireless Power Transfer. IEEE Transactions on Communications, 2021, 69, 5441-5455.	4.9	21
34	Rate Splitting Multiple Access in C-RAN: A Scalable and Robust Design. IEEE Transactions on Communications, 2021, 69, 5727-5743.	4.9	34
35	Rate-Splitting Multiple Access in Cache-Aided Cloud-Radio Access Networks. Frontiers in Communications and Networks, 2021, 2, .	1.9	12
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

#	ARTICLE	IF	CITATIONS
37	Rate Splitting Multiple Access for Multi-Antenna Multi-Carrier Joint Communications and Jamming. , 2021, , .		3
38	Wireless Power Transfer With Distributed Antennas: System Design, Prototype, and Experiments. IEEE Transactions on Industrial Electronics, 2021, 68, 10868-10878.	5.2	17
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	Guest Editorial Signal Processing Advances in Wireless Transmission of Information and Power. IEEE Journal on Selected Topics in Signal Processing, 2021, 15, 1056-1059.	7.3	1
41	Rate-Splitting Multiple Access for Enhanced URLLC and eMBB in 6G: Invited Paper. , 2021, , .		9
42	Multiple Access Techniques. , 2021, , 63-100.		2
43	A Rate-Splitting Strategy to Enable Joint Radar Sensing and Communication with Partial CSIT. , 2021, , .		6
44	Centralized and Decentralized Cache-Aided Interference Management in Heterogeneous Parallel Channels. IEEE Transactions on Communications, 2020, 68, 1881-1896.	4.9	4
45	Treating Interference as Noise in Cellular Networks: A Stochastic Geometry Approach. IEEE Transactions on Wireless Communications, 2020, 19, 1918-1932.	6.1	3
46	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
47	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
48	Cooperative Rate-Splitting for Secrecy Sum-Rate Enhancement in Multi-antenna Broadcast Channels. , 2020, , .		32
49	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
50	Rate Splitting for Multi-Group Multicasting With a Common Message. IEEE Transactions on Vehicular Technology, 2020, 69, 12281-12285.	3.9	15
51	Rate-Splitting Multiple Access for Multibeam Satellite Communications. , 2020, , .		22
52	Signal and System Design for Wireless Power Transfer: Prototype, Experiment and Validation. IEEE Transactions on Wireless Communications, 2020, 19, 7453-7469.	6.1	46
53	Rate-Splitting Multiple Access for Multi-Antenna Joint Communication and Radar Transmissions. , 2020, , .		20
54	A Rate Splitting Strategy for Mitigating Intra-Cell Pilot Contamination in Massive MIMO. , 2020, , .		10

#	ARTICLE	IF	CITATIONS
55	Rate-Splitting Multiple Access for Downlink Multi-Antenna Communications: Physical Layer Design and Link-level Simulations. , 2020, , .		31
56	Rate Splitting Multiple Access in C-RAN. , 2020, , .		13
57	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
58	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
59	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
60	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
61	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
62	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
63	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
64	Linear Precoding and Stream Combining for Rate Splitting in Multiuser MIMO Systems. IEEE Communications Letters, 2020, 24, 890-894.	2.5	26
65	Subcarrier Index Modulation for Future Wireless Networks: Principles, Applications, and Challenges. IEEE Wireless Communications, 2020, 27, 118-125.	6.6	46
66	On the Convex Properties of Wireless Power Transfer With Nonlinear Energy Harvesting. IEEE Transactions on Vehicular Technology, 2020, 69, 5672-5676.	3.9	13
67	Corrections to "On the Separability of Parallel MISO Broadcast Channels Under Partial CSIT: A Degrees of Freedom Region Perspective" IEEE Transactions on Information Theory, 2020, 66, 6605-6605.	1.5	0
68	Dirty Paper Coded Rate-Splitting for Non-Orthogonal Unicast and Multicast Transmission with Partial CSIT. , 2020, , .		1
69	Rate-Splitting Multiple Access: A New Frontier for the PHY Layer of 6G. , 2020, , .		52
70	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
71	Rate-Splitting Multiple Access for Coordinated Multi-Point Joint Transmission. , 2019, , .		34
72	Learning Modulation Design for SWIPT with Nonlinear Energy Harvester: Large and Small Signal Power Regimes. , 2019, , .		7

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73	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
74	Rate-Splitting for Multi-User Multi-Antenna Wireless Information and Power Transfer. , 2019, , .		49
75	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
76	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
77	Guest Editorial Wireless Transmission of Information and Powerâ€™Part II. IEEE Journal on Selected Areas in Communications, 2019, 37, 249-252.	9.7	2
78	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
79	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
80	A Learning Approach to Wireless Information and Power Transfer Signal and System Design. , 2019, , .		16
81	On Multi-Cell Uplink-Downlink Duality with Treating Inter-Cell Interference as Noise. , 2019, , .		6
82	DoF Region of the MISO BC with Partial CSIT: Proof by Inductive Fourier-Motzkin Elimination. , 2019, , .		6
83	Experimental Analysis of Harvested Energy and Throughput Trade-off in a Realistic SWIPT System. , 2019, , .		17
84	Robust Wireless Power Receiver for Multi-Tone Waveforms. , 2019, , .		5
85	Guest Editorial Wireless Transmission of Information and Powerâ€™Part I. IEEE Journal on Selected Areas in Communications, 2019, 37, 1-3.	9.7	8
86	Multiuser Wirelessly Powered Backscatter Communications: Nonlinearity, Waveform Design, and SINR-Energy Tradeoff. IEEE Transactions on Wireless Communications, 2019, 18, 241-253.	6.1	34
87	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
88	Wireless Information and Power Transfer: Nonlinearity, Waveform Design, and Rate-Energy Tradeoff. IEEE Transactions on Signal Processing, 2018, 66, 847-862.	3.2	142
89	Waveform Design for Wireless Power Transfer With Limited Feedback. IEEE Transactions on Wireless Communications, 2018, 17, 415-429.	6.1	50
90	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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91	Optimal Operation of Multitone Waveforms in Low RF-Power Receivers. , 2018, , .		13
92	Robust Cache-Aided Interference Management Under Full Transmitter Cooperation. , 2018, , .		3
93	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
94	IEEE ACCESS Special Section Editorial: Energy Efficient Wireless Communications With Energy Harvesting and Wireless Power Transfer. IEEE Access, 2018, 6, 72041-72045.	2.6	0
95	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
96	Energy Efficiency of Rate-Splitting Multiple Access, and Performance Benefits over SDMA and NOMA. , 2018, , .		101
97	Tomlinson-Harashima Precoded Rate-Splitting for Multiuser Multiple-Antenna Systems. , 2018, , .		16
98	Rate-Splitting for Multi-Antenna Non-Orthogonal Unicast and Multicast Transmission. , 2018, , .		29
99	Modulation Design for Wireless Information and Power Transfer with Nonlinear Energy Harvester Modeling. , 2018, , .		9
100	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
101	On the Optimality of Treating Interference as Noise for Interfering Multiple Access Channels. , 2018, , .		4
102	SWIPT Signalling over Complex AWGN Channels with Two Nonlinear Energy Harvester Models. , 2018, , .		3
103	MISO Networks With Imperfect CSIT: A Topological Rate-Splitting Approach. IEEE Transactions on Communications, 2017, 65, 2164-2179.	4.9	42
104	Communications and Signals Design for Wireless Power Transmission. IEEE Transactions on Communications, 2017, 65, 2264-2290.	4.9	353
105	Wirelessly Powered Backscatter Communications: Waveform Design and SNR-Energy Tradeoff. IEEE Communications Letters, 2017, 21, 2234-2237.	2.5	37
106	Low-Complexity Adaptive Multisine Waveform Design for Wireless Power Transfer. IEEE Antennas and Wireless Propagation Letters, 2017, 16, 2207-2210.	2.4	71
107	Rate-Splitting to Mitigate Residual Transceiver Hardware Impairments in Massive MIMO Systems. IEEE Transactions on Vehicular Technology, 2017, 66, 8196-8211.	3.9	74
108	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

#	ARTICLE	IF	CITATIONS
109	Rate-Splitting for Max-Min Fair Multigroup Multicast Beamforming in Overloaded Systems. IEEE Transactions on Wireless Communications, 2017, 16, 7276-7289.	6.1	121
110	Mitigation of phase noise in massive MIMO systems: A rate-splitting approach. , 2017, , .		6
111	On coded caching in the overloaded MISO broadcast channel. , 2017, , .		37
112	Achievable DoF Regions of MIMO Networks With Imperfect CSIT. IEEE Transactions on Information Theory, 2017, 63, 6587-6606.	1.5	40
113	Large-Scale Multiantenna Multisine Wireless Power Transfer. IEEE Transactions on Signal Processing, 2017, 65, 5812-5827.	3.2	54
114	Multiuser Millimeter Wave Beamforming Strategies With Quantized and Statistical CSIT. IEEE Transactions on Wireless Communications, 2017, 16, 7025-7038.	6.1	61
115	Optimal DoF Region of the $K$ -User MISO BC With Partial CSIT. IEEE Communications Letters, 2017, 21, 2368-2371.	2.5	44
116	Prototyping and experimentation of a closed-loop wireless power transmission with channel acquisition and waveform optimization. , 2017, , .		27
117	Wireless information and power transfer over an AWGN channel: Nonlinearity and asymmetric Gaussian signaling. , 2017, , .		38
118	On the DoF of Parallel MISO BCs with Partial CSIT: Total Order and Separability. , 2017, , .		0
119	A rate-splitting approach to robust multiuser MISO transmission. , 2016, , .		3
120	Waveform optimization for large-scale multi-antenna multi-sine wireless power transfer. , 2016, , .		11
121	Overloaded multiuser MISO transmission with imperfect CSIT. , 2016, , .		22
122	User-Centric Interference Nulling in Downlink Multi-Antenna Heterogeneous Networks. IEEE Transactions on Wireless Communications, 2016, 15, 7484-7500.	6.1	14
123	Resource allocation techniques for wireless powered communication networks. , 2016, , .		2
124	Robust Transmission in Downlink Multiuser MISO Systems: A Rate-Splitting Approach. IEEE Transactions on Signal Processing, 2016, 64, 6227-6242.	3.2	147
125	On the Capacity of Vector Gaussian Channels With Bounded Inputs. IEEE Transactions on Information Theory, 2016, 62, 6884-6903.	1.5	18
126	Waveform Design for Wireless Power Transfer. IEEE Transactions on Signal Processing, 2016, 64, 6313-6328.	3.2	268



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127	Achievable Sum DoF of the K-User MIMO Interference Channel with Delayed CSIT. IEEE Transactions on Communications, 2016, , 1-1.	4.9	10
128	A rate-splitting strategy for max-min fair multigroup multicasting. , 2016, , .		22
129	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
130	Enhancing LTE with Cloud-RAN and Load-Controlled Parasitic Antenna Arrays. , 2016, 54, 183-191.		5
131	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
132	Rate splitting for MIMO wireless networks: a promising PHY-layer strategy for LTE evolution. , 2016, 54, 98-105.		247
133	An Upper Bound for the Capacity of Amplitude-Constrained Scalar AWGN Channel. IEEE Communications Letters, 2016, 20, 1924-1926.	2.5	13
134	Relaying Strategies for Wireless-Powered MIMO Relay Networks. IEEE Transactions on Wireless Communications, 2016, 15, 6033-6047.	6.1	39
135	A Rate Splitting Strategy for Massive MIMO with Imperfect CSIT. IEEE Transactions on Wireless Communications, 2016, , 1-1.	6.1	156
136	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
137	DoF Analysis of the MIMO Broadcast Channel With Alternating/Hybrid CSIT. IEEE Transactions on Information Theory, 2016, 62, 1312-1325.	1.5	11
138	Hybrid Precoding for Physical Layer Multicasting. IEEE Communications Letters, 2016, 20, 228-231.	2.5	22
139	Opportunistic Multiuser Two-Way Amplify-and-Forward Relaying With a Multiantenna Relay. IEEE Transactions on Vehicular Technology, 2016, 65, 3777-3782.	3.9	2
140	Resource Allocation Techniques for Wireless Powered Communication Networks With Energy Storage Constraint. IEEE Transactions on Wireless Communications, 2016, 15, 2619-2628.	6.1	107
141	Achieving max-min fairness for MU-MISO with partial CSIT: A multicast assisted transmission. , 2015, , .		5
142	Joint wireless information and power transfer in a three-node autonomous MIMO relay network. , 2015, , .		5
143	A Simple DoF-Achievable Scheme for the Gaussian Interference Channel with Delayed CSIT. , 2015, , .		1
144	Waveform optimization for Wireless Power Transfer with nonlinear energy harvester modeling. , 2015, , .		33

#	ARTICLE	IF	CITATIONS
145	Simultaneous Wireless Information and Power Transfer in a two-user OFDM Interference Channel. , 2015, , .		10
146	A hierarchical rate splitting strategy for FDD massive MIMO under imperfect CSIT. , 2015, , .		5
147	User-centric interference nulling in downlink multi-antenna heterogeneous networks. , 2015, , .		3
148	Degrees-of-freedom of the K-user MISO interference channel with delayed local CSIT. , 2015, , .		14
149	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
150	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
151	Transmit Beamforming for MISO Broadcast Channels With Statistical and Delayed CSIT. IEEE Transactions on Communications, 2015, 63, 1202-1215.	4.9	17
152	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
153	A New Proof for the DoF Region of the MIMO Networks With No CSIT. IEEE Communications Letters, 2015, 19, 763-766.	2.5	4
154	Joint Wireless Information and Power Transfer for an Autonomous Multiple Antenna Relay System. IEEE Communications Letters, 2015, 19, 1113-1116.	2.5	29
155	Sum rate maximization for MU-MISO with partial CSIT using Joint Multicasting and Broadcasting. , 2015, , .		27
156	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
157	Analysis and optimization of interference nulling in downlink multi-antenna HetNets with offloading. , 2015, , .		0
158	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
159	AMMSE optimization for multiuser MISO systems with imperfect CSIT and perfect CSIR. , 2014, , .		6
160	MIMO broadcasting for simultaneous wireless information and power transfer: Weighted MMSE approaches. , 2014, , .		16
161	Lattice Reduction-Aided Successive Interference Cancellation for MIMO Interference Channels. IEEE Transactions on Vehicular Technology, 2014, 63, 4131-4135.	3.9	4
162	Joint Beamforming Design for Multi-User Wireless Information and Power Transfer. IEEE Transactions on Wireless Communications, 2014, 13, 6397-6409.	6.1	58

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163	Joint Wireless Information and Energy Transfer in a $\gamma$ -User MIMO Interference Channel. IEEE Transactions on Wireless Communications, 2014, 13, 5781-5796.	6.1	111
164	Capacity of Single-Link MIMO Channels. , 2013, , 125-171.		0
165	Space-Time Coding with Partial Transmit Channel Knowledge. , 2013, , 335-384.		0
166	Multi-User MIMO. , 2013, , 419-523.		6
167	MIMO in LTE, LTE-Advanced and WiMAX. , 2013, , 597-635.		2
168	MIMO-OFDMA System Level Evaluation. , 2013, , 637-674.		0
169	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
170	Recent trend of multiuser MIMO in LTE-advanced. , 2013, 51, 127-135.		131
171	A Practical Cooperative Multicell MIMO-OFDMA Network Based on Rank Coordination. IEEE Transactions on Wireless Communications, 2013, 12, 1481-1491.	6.1	37
172	Space-Time Coding over Real-World MIMO Channels with No Transmit Channel Knowledge. , 2013, , 295-334.		0
173	MISO Broadcast Channel with imperfect and (Un)matched CSIT in the frequency domain: DoF region and transmission strategies. , 2013, , .		4
174	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
175	Differential codebook for general rotated dual-polarized MISO channels. , 2012, , .		14
176	Interference alignment with limited feedback for two-cell interfering MIMO-MAC. , 2012, , .		28
177	Multiple-antenna techniques in LTE-advanced. , 2012, 50, 114-121.		93
178	Coordinated multipoint transmission and reception in LTE-advanced: deployment scenarios and operational challenges. , 2012, 50, 148-155.		582
179	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
180	Hierarchical Interference Alignment for Heterogeneous Networks with Multiple Antennas. , 2011, , .		18

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181	MIMO Systems with Limited Rate Differential Feedback in Slowly Varying Channels. IEEE Transactions on Communications, 2011, 59, 1175-1189.	4.9	81
182	MIMO Precoder Selections in Decode-Forward Relay Networks with Finite Feedback. IEEE Transactions on Communications, 2011, 59, 1785-1790.	4.9	4
183	Two-Cell MISO Interfering Broadcast Channel with Limited Feedback: Adaptive Feedback Strategy and Multiplexing Gains. , 2011, , .		4
184	Instantaneous degrees of freedom of downlink interference channels with multiuser diversity. , 2011, , .		1
185	Rank Recommendation-Based Coordinated Scheduling for Interference Mitigation in Cellular Networks. , 2011, , .		6
186	A Feedback Update Control Scheme for Limited Feedback Multiple Antennas Systems. , 2010, , .		5
187	Explicit vs. Implicit Feedback for SU and MU-MIMO. , 2010, , .		21
188	Leveraging temporal correlation for limited feedback multiple antennas systems. , 2010, , .		10
189	Limited Feedback Beamforming Systems for Dual-Polarized MIMO Channels. IEEE Transactions on Wireless Communications, 2010, 9, 3425-3439.	6.1	31
190	MIMO techniques in WiMAX and LTE: a feature overview. , 2010, 48, 86-92.		382
191	System level performance evaluation of inter-cell interference coordination schemes for heterogeneous networks in LTE-A system. , 2010, , .		23
192	Multiuser MIMO Downlink Made Practical: Application to IEEE 802.16m. , 2009, , .		10
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