

Le-Nam Tran

List of Publications by Year in descending order

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118
papers

2,759
citations

236612

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189595

50
g-index

122
all docs

122
docs citations

122
times ranked

2089
citing authors

#	ARTICLE	IF	CITATIONS
1	On the Total Energy Efficiency of Cell-Free Massive MIMO. IEEE Transactions on Green Communications and Networking, 2018, 2, 25-39.	3.5	459
2	Precoding for Full Duplex Multiuser MIMO Systems: Spectral and Energy Efficiency Maximization. IEEE Transactions on Signal Processing, 2013, 61, 4038-4050.	3.2	245
3	On the spectral efficiency of full-duplex small cell wireless systems. IEEE Transactions on Wireless Communications, 2014, 13, 4896-4910.	6.1	224
4	Fast Converging Algorithm for Weighted Sum Rate Maximization in Multicell MISO Downlink. IEEE Signal Processing Letters, 2012, 19, 872-875.	2.1	130
5	Optimal Energy-Efficient Transmit Beamforming for Multi-User MISO Downlink. IEEE Transactions on Signal Processing, 2015, 63, 5574-5588.	3.2	122
6	A Conic Quadratic Programming Approach to Physical Layer Multicasting for Large-Scale Antenna Arrays. IEEE Signal Processing Letters, 2014, 21, 114-117.	2.1	99
7	Achievable Rate Optimization for MIMO Systems With Reconfigurable Intelligent Surfaces. IEEE Transactions on Wireless Communications, 2021, 20, 3865-3882.	6.1	96
8	On Transmission Efficiency for Wireless Broadcast Using Network Coding and Fountain Codes. IEEE Communications Letters, 2011, 15, 569-571.	2.5	73
9	Iterative Precoder Design and User Scheduling for Block-Diagonalized Systems. IEEE Transactions on Signal Processing, 2012, 60, 3726-3739.	3.2	54
10	Energy-Efficient Bandwidth and Power Allocation for Multi-Homing Networks. IEEE Transactions on Signal Processing, 2015, 63, 1684-1699.	3.2	52
11	Energy-Efficient Resource Allocation for OFDMA Heterogeneous Networks. IEEE Transactions on Communications, 2019, 67, 7043-7057.	4.9	52
12	Achieving Energy Efficiency Fairness in Multicell MISO Downlink. IEEE Communications Letters, 2015, 19, 1426-1429.	2.5	51
13	Optimal Joint Remote Radio Head Selection and Beamforming Design for Limited Fronthaul C-RAN. IEEE Transactions on Signal Processing, 2017, 65, 5605-5620.	3.2	51
14	Beamformer Designs for MISO Broadcast Channels with Zero-Forcing Dirty Paper Coding. IEEE Transactions on Wireless Communications, 2013, 12, 1173-1185.	6.1	46
15	Weighted Sum Rate Maximization for MIMO Broadcast Channels Using Dirty Paper Coding and Zero-forcing Methods. IEEE Transactions on Communications, 2013, 61, 2362-2373.	4.9	44
16	On Linear Precoding Strategies for Secrecy Rate Maximization in Multiuser Multiantenna Wireless Networks. IEEE Transactions on Signal Processing, 2014, 62, 3536-3551.	3.2	44
17	Efficient Solutions for Weighted Sum Rate Maximization in Multicellular Networks With Channel Uncertainties. IEEE Transactions on Signal Processing, 2013, 61, 5659-5674.	3.2	40
18	Traffic Aware Resource Allocation Schemes for Multi-Cell MIMO-OFDM Systems. IEEE Transactions on Signal Processing, 2016, 64, 2730-2745.	3.2	40

#	ARTICLE	IF	CITATIONS
19	Energy-Efficient Multicell Multigroup Multicasting With Joint Beamforming and Antenna Selection. IEEE Transactions on Signal Processing, 2018, 66, 4904-4919.	3.2	40
20	Deep Reinforcement Learning-Based Resource Allocation in Cooperative UAV-Assisted Wireless Networks. IEEE Transactions on Wireless Communications, 2021, 20, 7610-7625.	6.1	36
21	Energy-Efficient Zero-Forcing Precoding Design for Small-Cell Networks. IEEE Transactions on Communications, 2016, 64, 790-804.	4.9	35
22	Distributed Solutions for Energy Efficiency Fairness in Multicell MISO Downlink. IEEE Transactions on Wireless Communications, 2017, 16, 6232-6247.	6.1	35
23	Energy efficiency optimization for cell-free massive MIMO. , 2017, , .		33
24	Joint Virtual Computing and Radio Resource Allocation in Limited Fronthaul Green C-RANs. IEEE Transactions on Wireless Communications, 2018, 17, 2602-2617.	6.1	31
25	Energy-Efficient Beam Coordination Strategies With Rate-Dependent Processing Power. IEEE Transactions on Signal Processing, 2017, 65, 6097-6112.	3.2	30
26	Computationally Efficient Robust Beamforming for SINR Balancing in Multicell Downlink With Applications to Large Antenna Array Systems. IEEE Transactions on Communications, 2014, 62, 1908-1920.	4.9	27
27	Energy Efficiency Fairness for Multi-Pair Wireless-Powered Relaying Systems. IEEE Journal on Selected Areas in Communications, 2019, 37, 357-373.	9.7	26
28	An Efficiency Maximization Design for SWIPT. IEEE Signal Processing Letters, 2015, 22, 2189-2193.	2.1	25
29	Transmission strategies for full duplex multiuser MIMO systems. , 2012, , .		24
30	Multigroup Multicast Beamformer Design for MISO-OFDM With Antenna Selection. IEEE Transactions on Signal Processing, 2017, 65, 5832-5847.	3.2	23
31	Multiuser Diversity for Successive Zero-Forcing Dirty Paper Coding: Greedy Scheduling Algorithms and Asymptotic Performance Analysis. IEEE Transactions on Signal Processing, 2010, 58, 3411-3416.	3.2	22
32	Revisiting the MIMO Capacity With Per-Antenna Power Constraint: Fixed-Point Iteration and Alternating Optimization. IEEE Transactions on Wireless Communications, 2019, 18, 388-401.	6.1	19
33	An Efficient Precoder Design for Multiuser MIMO Cognitive Radio Networks with Interference Constraints. IEEE Transactions on Vehicular Technology, 2016, , 1-1.	3.9	18
34	Efficient Zero-Forcing Precoder Design for Weighted Sum-Rate Maximization With Per-Antenna Power Constraint. IEEE Transactions on Vehicular Technology, 2018, 67, 3640-3645.	3.9	18
35	Energy Efficiency Maximization for C-RANs: Discrete Monotonic Optimization, Penalty, and ℓ_0 -Approximation Methods. IEEE Transactions on Signal Processing, 2018, 66, 4435-4449.	3.2	17
36	Optimization of RIS-Aided MIMO Systems Via the Cutoff Rate. IEEE Wireless Communications Letters, 2021, 10, 1692-1696.	3.2	17

#	ARTICLE	IF	CITATIONS
37	Decentralized coordinated beamforming for weighted sum energy efficiency maximization in multi-cell MISO downlink. , 2015, , .		16
38	Energy-efficient coordinated multi-cell multi-group multicast beamforming with antenna selection. , 2017, , .		13
39	First-Order Methods for Energy-Efficient Power Control in Cell-Free Massive MIMO : Invited Paper. , 2019, , .		13
40	Energy-efficient joint unicast and multicast beamforming with multi-antenna user terminals. , 2017, , .		12
41	Dynamic Federated Learning-Based Economic Framework for Internet-of-Vehicles. IEEE Transactions on Mobile Computing, 2023, 22, 2100-2115.	3.9	11
42	Network Coding-Based Retransmission for Relay Aided Multisource Multicast Networks. Eurasip Journal on Wireless Communications and Networking, 2011, 2011, .	1.5	10
43	A frequency domain equalization algorithm for fast time-varying fading channels. Journal of Communications and Networks, 2009, 11, 474-480.	1.8	9
44	Joint Beamforming and Remote Radio Head Selection in Limited Fronthaul C-RAN. , 2016, , .		9
45	Designing Green C-RAN with limited fronthaul via mixed-integer second order cone programming. , 2017, , .		9
46	Low-Complexity Approaches for MIMO Capacity with Per-Antenna Power Constraint. , 2017, , .		9
47	Noncoherent Joint Transmission Beamforming for Dense Small Cell Networks: Global Optimality, Efficient Solution and Distributed Implementation. IEEE Transactions on Wireless Communications, 2020, 19, 5891-5907.	6.1	9
48	On the Secrecy Capacity of MIMO Wiretap Channels: Convex Reformulation and Efficient Numerical Methods. IEEE Transactions on Communications, 2021, 69, 6865-6878.	4.9	9
49	Achievable Rate Maximization for Underlay Spectrum Sharing MIMO System With Intelligent Reflecting Surface. IEEE Wireless Communications Letters, 2022, 11, 1758-1762.	3.2	9
50	On the Precoder Design for Block Diagonalized MIMO Broadcast Channels. IEEE Communications Letters, 2012, 16, 1165-1168.	2.5	8
51	Globally optimal beamforming design for downlink CoMP transmission with limited backhaul capacity. , 2017, , .		8
52	Alternating Optimization for Capacity Region of Gaussian MIMO Broadcast Channels with Per-Antenna Power Constraint. , 2017, , .		8
53	Topology Adaptive Sum Rate Maximization in the Downlink of Dynamic Wireless Networks. IEEE Transactions on Communications, 2018, 66, 3501-3516.	4.9	8
54	Optimal Energy-Efficient Beamforming Designs for Cloud-RANs With Rate-Dependent Fronthaul Power. IEEE Transactions on Communications, 2019, 67, 5099-5113.	4.9	8

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55	Utility Maximization for Large-Scale Cell-Free Massive MIMO Downlink. IEEE Transactions on Communications, 2021, 69, 7050-7062.	4.9	8
56	Energy efficiency maximization for heterogeneous networks: A joint linear precoder design and small-cell switching-off approach. , 2016, , .		7
57	On the optimality of beamformer design for zero-forcing DPC with QR decomposition. , 2012, , .		6
58	Distributed energy efficiency fairness optimization by ADMM in multicell MISO downlink. , 2016, , .		6
59	Energy-efficient transmission strategies for CoMP downlink”overview, extension, and numerical comparison. Eurasip Journal on Wireless Communications and Networking, 2018, 2018, 207.	1.5	6
60	Accelerated Projected Gradient Method for the Optimization of Cell-Free Massive MIMO Downlink. , 2020, , .		6
61	A Low-Complexity Algorithm for Achieving Secrecy Capacity in MIMO Wiretap Channels. , 2020, , .		6
62	Energy-efficient power allocation in cell-free massive MIMO with zero-forcing: First order methods. Physical Communication, 2022, 51, 101540.	1.2	6
63	Successive zero-forcing DPC with per-antenna power constraint: Optimal and suboptimal designs. , 2012, , .		5
64	Queue aware precoder design for space frequency resource allocation. , 2014, , .		5
65	Fast Adaptive Minorization-Maximization Procedure for Beamforming Design of Downlink NOMA Systems. IEEE Transactions on Vehicular Technology, 2020, 69, 8023-8027.	3.9	5
66	A Low-Complexity Approach for Max-Min Fairness in Uplink Cell-Free Massive MIMO. , 2021, , .		5
67	Efficient ARQ Retransmission Schemes for Two-Way Relay Networks. Journal of Communications Software and Systems, 2017, 7, 9.	0.6	5
68	Unique Word Based Frequency Domain Equalization with Noise Prediction. IEEE Communications Letters, 2008, 12, 785-787.	2.5	4
69	Two-stage hybrid decision feedback equalization for DS-CDMA systems. IEEE Transactions on Wireless Communications, 2008, 7, 1490-1494.	6.1	4
70	An Iterative Precoder Design for Successive Zero-Forcing Precoded Systems. IEEE Communications Letters, 2012, 16, 16-18.	2.5	4
71	Energy-efficient transmit beamforming for MISO downlink via sequential convex approximation. , 2015, , .		4
72	Energy-efficient coordinated beamforming with rate dependent processing power. , 2016, , .		4

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73	Energy-efficient joint transmit beamforming and subarray selection with non-linear power amplifier efficiency. , 2016, , .		4
74	A fast converging algorithm for limited fronthaul C-RANs design: Power and throughput trade-off. , 2017, , .		4
75	Energy efficient precoding C-RAN downlink with compression at fronthaul. , 2017, , .		4
76	On the MIMO Capacity with Multiple Linear Transmit Covariance Constraints. , 2018, , .		4
77	On the Secrecy Rate of Downlink NOMA in Underlay Spectrum Sharing with Imperfect CSI: Invited Paper. , 2021, , .		4
78	Distributed Space-Time Block Code over Mixed Rayleigh and Rician Frequency-Selective Fading Channels. Eurasip Journal on Wireless Communications and Networking, 2010, 2010, .	1.5	3
79	Beamformer designs for zero-forcing dirty paper coding. , 2011, , .		3
80	Unique word-based distributed space-time block codes for two-hop wireless relay networks. IET Communications, 2012, 6, 715.	1.5	3
81	Optimal Energy Efficient Resource Allocation for Heterogeneous Multi-Homing Networks. , 2014, , .		3
82	Joint transmit beamforming and antenna selection for energy efficiency maximization in MISO downlink. , 2014, , .		3
83	SOCP based joint throughput maximization and user association in Dynamic Networks. , 2015, , .		3
84	Antenna Selection With Erroneous Covariance Matrices Under Secrecy Constraints. IEEE Transactions on Vehicular Technology, 2016, 65, 414-420.	3.9	3
85	Joint optimization of power consumption and load balancing in wireless dynamic network architecture. , 2017, , .		3
86	Distributed Noncoherent Transmit Beamforming for Dense Small Cell Networks. , 2019, , .		3
87	Energy-Efficient Bit Allocation for Resolution-Adaptive ADC in Multiuser Large-Scale MIMO Systems: Global Optimality. , 2020, , .		3
88	On the Optimality of the Stationary Solution of Secrecy Rate Maximization for MIMO Wiretap Channel. IEEE Wireless Communications Letters, 2022, 11, 357-361.	3.2	3
89	On the Secrecy Rate under Statistical QoS Provisioning for RIS-assisted MISO Wiretap Channel. , 2021, , .		3
90	Training sequence-based distributed space-time block codes with frequency domain equalization. , 2009, , .		2

#	ARTICLE	IF	CITATIONS
91	Design of Distributed Space-Time Block Code for Two-Relay System over Frequency Selective Fading Channels. , 2009, , .		2
92	Resource Allocation in Coordinated Uplink Multicell Multicarrier Systems. IEEE Transactions on Communications, 2013, 61, 4922-4933.	4.9	2
93	Energy-efficient transmission strategies for multiantenna downlink. , 2017, , .		2
94	Weighted Sum Rate Maximization for Zero-Forcing Methods with General Linear Covariance Constraints. , 2018, , .		2
95	Fall Detection using Wi-Fi Signals and Threshold-Based Activity Segmentation. , 2020, , .		2
96	Design of Pilots and Power Control in the Cell-Free Massive MIMO Uplink. , 2020, , .		2
97	Secrecy Rate Maximization for Intelligent Reflecting Surface Assisted MIMOME Wiretap Channels. , 2021, , .		2
98	A two-stage detection algorithm for the V-BLAST system. , 0, , .		1
99	Low-complexity scheduling algorithms for successive zero-forcing dirty paper coded systems. , 2009, , .		1
100	Successive zero-forcing DPC with sum power constraint: Low-complexity optimal designs. , 2012, , .		1
101	Double-threshold based cooperative spectrum sensing over imperfect channels. , 2015, , .		1
102	Queue aware precoder design via OTA training. , 2016, , .		1
103	A Novel Energy-Efficient Resource Allocation Approach in Limited Fronthaul Virtualized C-RANs. , 2018, , .		1
104	APG Method for Energy-Efficient Power Control in Cell-Free Massive MIMO with Zero-Forcing. , 2021, , .		1
105	On Spectral Efficiency for Multiuser MISO Systems Under Imperfect Channel Information. IEEE Transactions on Vehicular Technology, 2021, 70, 1946-1951.	3.9	1
106	Efficient Numerical Methods for Secrecy Capacity of Gaussian MIMO Wiretap Channel. , 2021, , .		1
107	Long Term Evolution Network Security and Real-Time Data Extraction. Studies in Big Data, 2020, , 201-220.	0.8	1
108	On the Achievable Sum-rate of the RIS-aided MIMO Broadcast Channel : Invited Paper. , 2021, , .		1

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109	Power Control for Multigroup Multicast Cell-Free Massive MIMO Downlink: Invited Paper. , 2021, , .		1
110	New Hybrid Decision Feedback Equalization for DS-CDMA Systems. , 2007, , .		0
111	SOCP approaches to joint subcarrier allocation and precoder design for downlink OFDMA systems. , 2014, , .		0
112	Globally Optimal Energy Efficiency Maximization for Capacity-Limited Fronthaul Crans with Dynamic Power Amplifiersâ€™ Efficiency. , 2018, , .		0
113	Efficient Algorithms for Sum Rate Maximization in Fronthaul-Constrained C-RANs. , 2019, , .		0
114	On Estimating Maximum Sum Rate of MIMO Systems with Successive Zero-Forcing Dirty Paper Coding and Per-antenna Power Constraint. , 2019, , .		0
115	A Comparison of the Uplink Performance of Cell-Free Massive MIMO using Three Linear Combining Schemes: Full-Pilot Zero Forcing with Access Point Selection, Matched-Filter and Local-Minimum-Mean-Square Error. , 2020, , .		0
116	Queue Aware Resource Optimization in Latency Constrained Dynamic Networks. , 2020, , .		0
117	On Characterizing the Capacity Region of Massive MIMO Systems with Joint Power Constraints. , 2021, , .		0
118	On the MIMO Capacity With Joint Sum and Per-Antenna Power Constraints: A New Efficient Numerical Method. IEEE Transactions on Vehicular Technology, 2022, 71, 10179-10184.	3.9	0