

Hyundong Shin

List of Publications by Year in descending order

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144
papers

5,068
citations

186265
28
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91884
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144
all docs

144
docs citations

144
times ranked

3548
citing authors

#	ARTICLE	IF	CITATIONS
1	Cooperative Communications with Outage-Optimal Opportunistic Relaying. IEEE Transactions on Wireless Communications, 2007, 6, 3450-3460.	9.2	958
2	Capacity of multiple-antenna fading channels: spatial fading correlation, double scattering, and keyhole. IEEE Transactions on Information Theory, 2003, 49, 2636-2647.	2.4	526
3	Energy Efficient Heterogeneous Cellular Networks. IEEE Journal on Selected Areas in Communications, 2013, 31, 840-850.	14.0	495
4	Cognitive Network Interference. IEEE Journal on Selected Areas in Communications, 2011, 29, 480-493.	14.0	266
5	Performance Analysis of Space-Time Block Codes Over Keyhole Nakagami- m Fading Channels. IEEE Transactions on Vehicular Technology, 2004, 53, 351-362.	6.3	201
6	Learning for Computation Offloading in Mobile Edge Computing. IEEE Transactions on Communications, 2018, 66, 6353-6367.	7.8	162
7	MIMO Diversity in the Presence of Double Scattering. IEEE Transactions on Information Theory, 2008, 54, 2976-2996.	2.4	154
8	Outage optimality of opportunistic amplify-and-forward relaying. IEEE Communications Letters, 2007, 11, 261-263.	4.1	146
9	MIMO Networks: The Effects of Interference. IEEE Transactions on Information Theory, 2010, 56, 336-349.	2.4	127
10	Enabling intelligence in fog computing to achieve energy and latency reduction. Digital Communications and Networks, 2019, 5, 3-9.	5.0	122
11	Beamforming optimization for multiuser two-tier networks. Journal of Communications and Networks, 2011, 13, 327-338.	2.6	100
12	On the Error Probability of Binary and M -ary Signals in Nakagami- m Fading Channels. IEEE Transactions on Communications, 2004, 52, 536-539.	7.8	95
13	Machine Learning for Wideband Localization. IEEE Journal on Selected Areas in Communications, 2015, 33, 1357-1380.	14.0	93
14	Exact symbol error probability of orthogonal space-time block codes. , 0, , .		78
15	On the SEP of Cooperative Diversity with Opportunistic Relaying. IEEE Communications Letters, 2008, 12, 727-729.	4.1	78
16	Least Square Cooperative Localization. IEEE Transactions on Vehicular Technology, 2015, 64, 1318-1330.	6.3	78
17	MIMO Cooperative Diversity with Scalar-Gain Amplify-and-Forward Relaying. IEEE Transactions on Communications, 2009, 57, 1932-1938.	7.8	64
18	Robust Wireless Relay Networks: Slow Power Allocation With Guaranteed QoS. IEEE Journal on Selected Topics in Signal Processing, 2007, 1, 700-713.	10.8	63

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19	Content-Aware Proactive Caching for Backhaul Offloading in Cellular Network. IEEE Transactions on Wireless Communications, 2018, 17, 3128-3140.	9.2	58
20	MRC Analysis of Cooperative Diversity with Fixed-Gain Relays in Nakagami-m Fading Channels. IEEE Transactions on Wireless Communications, 2008, 7, 2069-2074.	9.2	56
21	Intervehicle Communication: Cox-Fox Modeling. IEEE Journal on Selected Areas in Communications, 2013, 31, 418-433.	14.0	54
22	Asymptotic statistics of mutual information for doubly correlated MIMO channels. IEEE Transactions on Wireless Communications, 2008, 7, 562-573.	9.2	50
23	Power Allocation in Cache-Aided NOMA Systems: Optimization and Deep Reinforcement Learning Approaches. IEEE Transactions on Communications, 2020, 68, 630-644.	7.8	49
24	Effect of keyholes on the symbol error rate of space-time block codes. IEEE Communications Letters, 2003, 7, 27-29.	4.1	47
25	Interference Alignment in a Poisson Field of MIMO Femtocells. IEEE Transactions on Wireless Communications, 2013, 12, 2633-2645.	9.2	46
26	Gallager's exponent for MIMO channels: a reliability-rate tradeoff. IEEE Transactions on Communications, 2009, 57, 972-985.	7.8	44
27	Exact MIMO Zero-Forcing Detection Analysis for Transmit-Correlated Rician Fading. IEEE Transactions on Wireless Communications, 2014, 13, 1514-1527.	9.2	41
28	Online Resource Procurement and Allocation in a Hybrid Edge-Cloud Computing System. IEEE Transactions on Wireless Communications, 2020, 19, 2137-2149.	9.2	31
29	MIMO Zero-Forcing Performance Evaluation Using the Holonomic Gradient Method. IEEE Transactions on Wireless Communications, 2015, 14, 2322-2335.	9.2	29
30	Joint Offloading and Charge Cost Minimization in Mobile Edge Computing. IEEE Open Journal of the Communications Society, 2020, 1, 205-216.	6.9	29
31	Closed-form formulas for ergodic capacity of MIMO Rayleigh fading channels. , 0, , .		28
32	Power Allocation and Achievable Secrecy Rates in MISOME Wiretap Channels. IEEE Communications Letters, 2011, 15, 1196-1198.	4.1	27
33	Superanalysis of Optimum Combining with Application to Femtocell Networks. IEEE Journal on Selected Areas in Communications, 2012, 30, 509-524.	14.0	27
34	\mathcal{H}_ν Transforms for Wireless Communication. IEEE Transactions on Information Theory, 2015, 61, 3773-3809.	2.4	27
35	On OFDM Ranging Accuracy in Multipath Channels. IEEE Systems Journal, 2014, 8, 104-114.	4.6	26
36	Distributed Local Linear Parameter Estimation Using Gaussian SPAWN. IEEE Transactions on Signal Processing, 2015, 63, 244-257.	5.3	22

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37	Schur Complement Based Analysis of MIMO Zero-Forcing for Rician Fading. IEEE Transactions on Wireless Communications, 2015, 14, 1757-1771.	9.2	19
38	Anomalous Diffusion in Molecular Communication. IEEE Communications Letters, 2015, 19, 1674-1677.	4.1	19
39	Counterfactual Bell-State Analysis. Scientific Reports, 2018, 8, 14641.	3.3	18
40	Molecular Communication With Anomalous Diffusion in Stochastic Nanonetworks. IEEE Transactions on Communications, 2019, 67, 8378-8393.	7.8	16
41	Asymptotic SEP for M-PSK Signals over α - β Fading Channels. IEEE Communications Letters, 2008, 12, 675-677.	4.1	14
42	Socially-Aware Caching in Wireless Networks With Random D2D Communications. IEEE Access, 2019, 7, 58394-58406.	4.2	14
43	Measurement-Based Quantum Correlations for Quantum Information Processing. Scientific Reports, 2020, 10, 2443.	3.3	14
44	Effect of Line-of-Sight on Dual-Hop Nonregenerative Relay Wireless Communications. Vehicular Technology Conference-Fall (VTC-FALL), Proceedings, IEEE, 2007, , .	0.0	13
45	Random coding error exponent for dual-hop nakagami-m fading channels with amplify-and-forward relaying. IEEE Communications Letters, 2009, 13, 823-825.	4.1	13
46	Holevo Capacity of Discrete Weyl Channels. Scientific Reports, 2018, 8, 17457.	3.3	13
47	Turbo decoding in a Rayleigh fading channel with estimated channel state information. , 0, , .		12
48	Multicasting in Stochastic MIMO Networks. IEEE Transactions on Wireless Communications, 2014, 13, 1-13.	9.2	12
49	Practical deterministic secure quantum communication in a lossy channel. Progress of Theoretical and Experimental Physics, 2017, 2017, .	6.6	12
50	Measurement-based quantum correlation in mixed-state quantum metrology. Quantum Information Processing, 2018, 17, 1.	2.2	12
51	Random Coding Exponent for MIMO Channels. IEEE Vehicular Technology Conference, 2008, , .	0.4	10
52	Exact ZF Analysis and Computer-Algebra-Aided Evaluation in Rank-1 LoS Rician Fading. IEEE Transactions on Wireless Communications, 2016, 15, 5245-5259.	9.2	10
53	Quantum Correlation in Squeezed Generalized Amplitude Damping Channels with Memory. Scientific Reports, 2019, 9, 4035.	3.3	10
54	Directly estimating the Holevo capacity of discrete Weyl channels. Physical Review A, 2019, 99, .	2.5	10

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55	Molecular Communication in H-Diffusion. IEEE Transactions on Communications, 2020, 68, 4293-4310.	7.8	10
56	Entanglement-Free Parameter Estimation of Generalized Pauli Channels. Quantum - the Open Journal for Quantum Science, 0, 5, 490.	0.0	10
57	Saddlepoint approximation to the outage capacity of MIMO channels. IEEE Transactions on Wireless Communications, 2006, 5, 2679-2684.	9.2	9
58	Optimal Linear Multihop System for DF Relaying in a Poisson Field of Interferers. IEEE Communications Letters, 2013, 17, 2029-2032.	4.1	9
59	User Behavior Driven MAC Scheduling for Body Sensor Networks: A Cross-Layer Approach. IEEE Sensors Journal, 2019, 19, 7755-7765.	4.7	9
60	Unified Monogamy Relations of Multipartite Entanglement. Scientific Reports, 2019, 9, 16419.	3.3	9
61	Deep Learning-Based Cellular Random Access Framework. IEEE Transactions on Wireless Communications, 2021, 20, 7503-7518.	9.2	9
62	Secure node packing of large-scale wireless networks. , 2012, , .		8
63	Joint Channel Identification and Estimation in Wireless Network: Sparsity and Optimization. IEEE Transactions on Wireless Communications, 2018, 17, 3141-3153.	9.2	8
64	Connectivity in Molecular Communication With Random Time Constraints. IEEE Access, 2019, 7, 113121-113130.	4.2	8
65	Robust Energy Efficiency Maximization in Multicast Downlink C-RAN. IEEE Transactions on Vehicular Technology, 2019, 68, 8951-8965.	6.3	8
66	Metrologically resourceful multipartite entanglement under quantum many-body effects. Quantum Science and Technology, 2021, 6, 025007.	5.8	8
67	Quantum Anonymous Private Information Retrieval for Distributed Networks. IEEE Transactions on Communications, 2022, 70, 4026-4037.	7.8	8
68	Channel reliability estimation for turbo decoding in rayleigh fading channels with imperfect channel estimates. IEEE Communications Letters, 2002, 6, 503-505.	4.1	7
69	Secure diversity-multiplexing tradeoffs in MIMO relay channels. , 2009, , .		7
70	Opportunistic interference alignment in MIMO femtocell networks. , 2012, , .		7
71	Error Exponents for Distributed Detection. IEEE Communications Letters, 2016, 20, 121-124.	4.1	7
72	MIMO Capacity in Binomial Field Networks. IEEE Access, 2017, 5, 12545-12551.	4.2	7

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73	Dynamic Network Formation Game With Social Awareness in D2D Communications. IEEE Transactions on Wireless Communications, 2018, 17, 6544-6558.	9.2	7
74	Dual Quantum Zeno Superdense Coding. Scientific Reports, 2019, 9, 11193.	3.3	7
75	Tightening Monogamy and Polygamy Inequalities of Multiqubit Entanglement. Scientific Reports, 2019, 9, 3314.	3.3	7
76	Distribution of entanglement in multipartite systems. Quantum Information Processing, 2019, 18, 1.	2.2	7
77	Joint time delay and energy optimization with intelligent overclocking in edge computing. Science China Information Sciences, 2020, 63, 1.	4.3	7
78	Cognitive Network Interference- Modeling and Applications. , 2011, , .		6
79	Purity-Based Continuity Bounds for von Neumann Entropy. Scientific Reports, 2019, 9, 13912.	3.3	6
80	Error-mitigated photonic variational quantum eigensolver using a single-photon ququart. Optica, 2022, 9, 88.	9.3	6
81	Interference rejection combining in two-tier femtocell networks. , 2011, , .		5
82	Optimal Sensing Cardinality for Cognitive Radios. IEEE Communications Letters, 2011, 15, 716-718.	4.1	5
83	Quantum channel discrimination without entanglement. Quantum Information Processing, 2018, 17, 1.	2.2	5
84	Quantum frequency synchronization of distant clock oscillators. Quantum Information Processing, 2020, 19, 1.	2.2	5
85	Self-guided quantum state tomography for limited resources. Scientific Reports, 2022, 12, 5092.	3.3	5
86	Quantum anonymous collision detection for quantum networks. EPJ Quantum Technology, 2021, 8, .	6.3	5
87	Switched power allocation for MISOME wiretap channels. , 2012, , .		4
88	Stochastic wireless secure multicasting. , 2013, , .		4
89	Learning dictionary and compressive sensing for WLAN localization. , 2014, , .		4
90	Security of a control key in quantum key distribution. Modern Physics Letters B, 2017, 31, 1750119.	1.9	4

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91	Quantum Error Mitigation for Quantum State Tomography. IEEE Access, 2021, 9, 107955-107964.	4.2	4
92	Information carrier and resource optimization of counterfactual quantum communication. Quantum Information Processing, 2021, 20, 1.	2.2	4
93	Quantum anonymous notification for network-based applications. Quantum Information Processing, 2021, 20, 1.	2.2	4
94	Improved upper bound on the bit error probability of turbo codes for ML decoding with imperfect CSI in a Rayleigh fading channel. , 0, , .		3
95	Cooperative Diversity with Blind Relays in Nakagami-m Fading Channels: MRC Analysis. IEEE Vehicular Technology Conference, 2008, , .	0.4	3
96	Effect of joint spatial correlation on the diversity performance of space-time block codes. IEEE Communications Letters, 2009, 13, 477-479.	4.1	3
97	Bursty relay networks in low-SNR regimes. IEEE Transactions on Communications, 2010, 58, 694-705.	7.8	3
98	Superanalysis of the Interference Effect on Adaptive Antenna Systems. , 2010, , .		3
99	Relevance vector machine for UWB localization. , 2014, , .		3
100	Secure multiple-input single-output communication " Part II: secrecy symbol error probability and secrecy diversity. IET Communications, 2014, 8, 1227-1238.	2.2	3
101	H-fading: Towards H-transform theory for wireless communication. , 2015, , .		3
102	Cutset Bounds on the Capacity of MIMO Relay Channels. IEEE Access, 2017, 5, 20339-20348.	4.2	3
103	Adaptive quantum state tomography with iterative particle filtering. Quantum Information Processing, 2021, 20, 1.	2.2	3
104	Upper bound on the error probability for space-time codes in fast fading channels. , 0, , .		3
105	Robust Quantum State Tomography Method for Quantum Sensing. Sensors, 2022, 22, 2669.	3.8	3
106	On the Robustness of Quantum Algorithms for Blockchain Consensus. Sensors, 2022, 22, 2716.	3.8	3
107	Performance analysis of space-time block codes over keyhole MIMO channels. , 0, , .		2
108	Bursty narrowband relay networks in the low-SNR regime. , 2008, , .		2

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109	Amplify-and-forward two-way relay channels: Error exponents. , 2009, , .		2
110	Optimal energy tradeoff for active sensing in cognitive radio networks. , 2011, , .		2
111	Multi-hop Decode-and-Forward relaying in a wireless ad hoc networks. , 2011, , .		2
112	Uplink Coordinated Multi-Point ARQ in MIMO Cellular Systems. IEICE Transactions on Communications, 2011, E94-B, 3211-3224.	0.7	2
113	Concatenated coding and hybrid automatic repeat request for wiretap channels. IET Communications, 2014, 8, 1211-1216.	2.2	2
114	Discrete Weyl Channels With Markovian Memory. IEEE Journal on Selected Areas in Communications, 2020, 38, 413-426.	14.0	2
115	Local distinguishability of Bell-type states. Quantum Information Processing, 2021, 20, 1.	2.2	2
116	Noise-Robust Quantum Teleportation With Counterfactual Communication. IEEE Access, 2022, 10, 61484-61493.	4.2	2
117	A novel error detection scheme for turbo coded hybrid ARQ. , 0, , .		1
118	Capacity statistics and scheduling gain for MIMO systems in correlated Rayleigh fading. , 0, , .		1
119	Diversity in Double-Scattering MIMO Channels. IEEE Vehicular Technology Conference, 2008, , .	0.4	1
120	Secure Joint Source-Channel Coding for Quasi-Static Fading Channels. , 2009, , .		1
121	Random access transport capacity of dual-hop AF relaying in a wireless ad hoc networks. , 2012, , .		1
122	Information dissemination in MIMO networks. , 2012, , .		1
123	Optimal active sensing in heterogeneous cognitive radio networks. , 2012, , .		1
124	Modeling of intervehicle communication. , 2012, , .		1
125	Secure multiple-input single-output communication " Part I: secrecy rates and switched power allocation. IET Communications, 2014, 8, 1217-1226.	2.2	1
126	Molecular Communication in a Cox Field of Interfering Molecules. , 2018, , .		1

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127	Symbol Error Probability for M-Ary Signals in Stacy Fading Channels. IEICE Transactions on Communications, 2009, E92-B, 973-979.	0.7	1
128	Self-guided quantum state learning for mixed states. Quantum Information Processing, 2022, 21, .	2.2	1
129	Bursty Wideband Relay Networks. , 2009, , .		0
130	Further results on MIMO networks based on the distribution of the eigenvalues of arbitrarily correlated Wishart matrices. , 2009, , .		0
131	Semi-decentralized beamforming coordination for multiuser two-tier networks. , 2011, , .		0
132	WiMedia networks in the presence of hard DRP devices. , 2011, , .		0
133	Power allocation for secrecy diversity in MISOME wiretap channels. , 2013, , .		0
134	Analysis of intervehicle communication. , 2013, , .		0
135	V2V communication in a Cox field of vehicles. , 2014, , .		0
136	Markov-population vehicular networks. , 2014, , .		0
137	H-transforms for symbol error probability. , 2015, , .		0
138	H-transforms for channel capacity. , 2015, , .		0
139	Time-Correlated Markovian Quantum Channels. , 2018, , .		0
140	Optimal Transmission in MIMO Channels With Multiuser Interference. IEEE Transactions on Wireless Communications, 2018, 17, 7236-7251.	9.2	0
141	Opportunistic Decouple-and-Forward Relaying: Harnessing Distributed Antennas. IEICE Transactions on Communications, 2014, E97.B, 1148-1156.	0.7	0
142	Classical Capacity Regions for Generalized Pauli Channels. , 2021, , .		0
143	Quantum Pulse Coding for Rabi And Ramsey Evolution on IBM Armonk. , 2021, , .		0
144	Variational estimation of capacity bounds for quantum channels. Physical Review A, 2022, 105, .	2.5	0