Hyundong Shin

List of Publications by Year
in descending order

144 papers	5,068 citations	186265 28 h-index	91884 69 g-index
144 all docs	144 docs citations	144 times ranked	3548 citing authors

#	ARTICLE	IF	CITATIONS
1	Error-mitigated photonic variational quantum eigensolver using a single-photon ququart. Optica, 2022, 9, 88.	9.3	6
2	Noise-Robust Quantum Teleportation With Counterfactual Communication. IEEE Access, 2022, 10, 61484-61493.	4.2	2
3	Self-guided quantum state tomography for limited resources. Scientific Reports, 2022, 12, 5092.	3.3	5
4	Variational estimation of capacity bounds for quantum channels. Physical Review A, 2022, 105, .	2.5	0
5	Robust Quantum State Tomography Method for Quantum Sensing. Sensors, 2022, 22, 2669.	3.8	3
6	On the Robustness of Quantum Algorithms for Blockchain Consensus. Sensors, 2022, 22, 2716.	3.8	3
7	Quantum Anonymous Private Information Retrieval for Distributed Networks. IEEE Transactions on Communications, 2022, 70, 4026-4037.	7.8	8
8	Self-guided quantum state learning for mixed states. Quantum Information Processing, 2022, 21, .	2.2	1
9	Quantum Error Mitigation for Quantum State Tomography. IEEE Access, 2021, 9, 107955-107964.	4.2	4
10	Metrologically resourceful multipartite entanglement under quantum many-body effects. Quantum Science and Technology, 2021, 6, 025007.	5.8	8
11	Local distinguishability of Bell-type states. Quantum Information Processing, 2021, 20, 1.	2.2	2
12	Information carrier and resource optimization of counterfactual quantum communication. Quantum Information Processing, 2021, 20, 1.	2.2	4
13	Deep Learning-Based Cellular Random Access Framework. IEEE Transactions on Wireless Communications, 2021, 20, 7503-7518.	9.2	9
14	Adaptive quantum state tomography with iterative particle filtering. Quantum Information Processing, 2021, 20, 1.	2.2	3
15	Quantum anonymous notification for network-based applications. Quantum Information Processing, 2021, 20, 1.	2.2	4
16	Classical Capacity Regions for Generalized Pauli Channels. , 2021, , .		0
17	Quantum Pulse Coding for Rabi And Ramsey Evolution on IBM Armonk. , 2021, , .		0
18	Quantum anonymous collision detection for quantum networks. EPJ Quantum Technology, 2021, 8, .	6.3	5

#	ARTICLE	IF	CITATIONS
19	Power Allocation in Cache-Aided NOMA Systems: Optimization and Deep Reinforcement Learning Approaches. IEEE Transactions on Communications, 2020, 68, 630-644.	7.8	49
20	Online Resource Procurement and Allocation in a Hybrid Edge-Cloud Computing System. IEEE Transactions on Wireless Communications, 2020, 19, 2137-2149.	9.2	31
21	Molecular Communication in H-Diffusion. IEEE Transactions on Communications, 2020, 68, 4293-4310.	7.8	10
22	Quantum frequency synchronization of distant clock oscillators. Quantum Information Processing, 2020, 19, 1.	2.2	5
23	Joint Offloading and Charge Cost Minimization in Mobile Edge Computing. IEEE Open Journal of the Communications Society, 2020, 1, 205-216.	6.9	29
24	Measurement-Based Quantum Correlations for Quantum Information Processing. Scientific Reports, 2020, 10, 2443.	3.3	14
25	Discrete Weyl Channels With Markovian Memory. IEEE Journal on Selected Areas in Communications, 2020, 38, 413-426.	14.0	2
26	Joint time delay and energy optimization with intelligent overclocking in edge computing. Science China Information Sciences, 2020, 63, 1.	4.3	7
27	Dual Quantum Zeno Superdense Coding. Scientific Reports, 2019, 9, 11193.	3.3	7
28	Purity-Based Continuity Bounds for von Neumann Entropy. Scientific Reports, 2019, 9, 13912.	3.3	6
29	Connectivity in Molecular Communication With Random Time Constraints. IEEE Access, 2019, 7, 113121-113130.	4.2	8
30	Robust Energy Efficiency Maximization in Multicast Downlink C-RAN. IEEE Transactions on Vehicular Technology, 2019, 68, 8951-8965.	6.3	8
31	Molecular Communication With Anomalous Diffusion in Stochastic Nanonetworks. IEEE Transactions on Communications, 2019, 67, 8378-8393.	7.8	16
32	Socially-Aware Caching in Wireless Networks With Random D2D Communications. IEEE Access, 2019, 7, 58394-58406.	4.2	14
33	User Behavior Driven MAC Scheduling for Body Sensor Networks: A Cross-Layer Approach. IEEE Sensors Journal, 2019, 19, 7755-7765.	4.7	9
34	Tightening Monogamy and Polygamy Inequalities of Multiqubit Entanglement. Scientific Reports, 2019, 9, 3314.	3.3	7
35	Quantum Correlation in Squeezed Generalized Amplitude Damping Channels with Memory. Scientific Reports, 2019, 9, 4035.	3.3	10
36	Directly estimating the Holevo capacity of discrete Weyl channels. Physical Review A, 2019, 99, .	2.5	10

#	Article	IF	Citations
37	Unified Monogamy Relations of Multipartite Entanglement. Scientific Reports, 2019, 9, 16419.	3.3	9
38	Distribution of entanglement in multipartite systems. Quantum Information Processing, 2019, 18, 1.	2.2	7
39	Enabling intelligence in fog computing to achieve energy and latency reduction. Digital Communications and Networks, 2019, 5, 3-9.	5.0	122
40	Joint Channel Identification and Estimation in Wireless Network: Sparsity and Optimization. IEEE Transactions on Wireless Communications, 2018, 17, 3141-3153.	9.2	8
41	Content-Aware Proactive Caching for Backhaul Offloading in Cellular Network. IEEE Transactions on Wireless Communications, 2018, 17, 3128-3140.	9.2	58
42	Time-Correlated Markovian Quantum Channels. , 2018, , .		0
43	Molecular Communication in a Cox Field of Interfering Molecules. , 2018, , .		1
44	Measurement-based quantum correlation in mixed-state quantum metrology. Quantum Information Processing, 2018, 17, 1.	2.2	12
45	Holevo Capacity of Discrete Weyl Channels. Scientific Reports, 2018, 8, 17457.	3.3	13
46	Counterfactual Bell-State Analysis. Scientific Reports, 2018, 8, 14641.	3.3	18
47	Quantum channel discrimination without entanglement. Quantum Information Processing, 2018, 17, 1.	2.2	5
48	Dynamic Network Formation Game With Social Awareness in D2D Communications. IEEE Transactions on Wireless Communications, 2018, 17, 6544-6558.	9.2	7
49	Optimal Transmission in MIMO Channels With Multiuser Interference. IEEE Transactions on Wireless Communications, 2018, 17, 7236-7251.	9.2	0
50	Learning for Computation Offloading in Mobile Edge Computing. IEEE Transactions on Communications, 2018, 66, 6353-6367.	7.8	162
51	Security of a control key in quantum key distribution. Modern Physics Letters B, 2017, 31, 1750119.	1.9	4
52	Cutset Bounds on the Capacity of MIMO Relay Channels. IEEE Access, 2017, 5, 20339-20348.	4.2	3
53	Practical deterministic secure quantum communication in a lossy channel. Progress of Theoretical and Experimental Physics, 2017, 2017, .	6.6	12
54	MIMO Capacity in Binomial Field Networks. IEEE Access, 2017, 5, 12545-12551.	4.2	7

#	ARTICLE	IF	CITATIONS
55	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
56	Error Exponents for Distributed Detection. IEEE Communications Letters, 2016, 20, 121-124.	4.1	7
57	<inline-formula> <tex-math notation="LaTeX">H </tex-math></inline-formula>-Transforms for Wireless Communication. IEEE Transactions on Information Theory, 2015, 61, 3773-3809.	2.4	27
58	MIMO Zero-Forcing Performance Evaluation Using the Holonomic Gradient Method. IEEE Transactions on Wireless Communications, 2015, 14, 2322-2335.	9.2	29
59	Least Square Cooperative Localization. IEEE Transactions on Vehicular Technology, 2015, 64, 1318-1330.	6.3	78
60	Machine Learning for Wideband Localization. IEEE Journal on Selected Areas in Communications, 2015, 33, 1357-1380.	14.0	93
61	Distributed Local Linear Parameter Estimation Using Gaussian SPAWN. IEEE Transactions on Signal Processing, 2015, 63, 244-257.	5.3	22
62	Schur Complement Based Analysis of MIMO Zero-Forcing for Rician Fading. IEEE Transactions on Wireless Communications, 2015, 14, 1757-1771.	9.2	19
63	Anomalous Diffusion in Molecular Communication. IEEE Communications Letters, 2015, 19, 1674-1677.	4.1	19
64	H-fading: Towards H-transform theory for wireless communication. , 2015, , .		3
65	H-transforms for symbol error probability. , 2015, , .		0
66	H-transforms for channel capacity. , 2015, , .		0
67	On OFDM Ranging Accuracy in Multipath Channels. IEEE Systems Journal, 2014, 8, 104-114.	4.6	26
68	Relevance vector machine for UWB localization. , 2014, , .		3
69	Learning dictionary and compressive sensing for WLAN localization. , 2014, , .		4
70	V2V communication in a Cox field of vehicles. , 2014, , .		0
71	Exact MIMO Zero-Forcing Detection Analysis for Transmit-Correlated Rician Fading. IEEE Transactions on Wireless Communications, 2014, 13, 1514-1527.	9.2	41
72	Multicasting in Stochastic MIMO Networks. IEEE Transactions on Wireless Communications, 2014, 13, 1-13.	9.2	12

#	ARTICLE	IF	CITATIONS
73	Secure multiple‐input single‐output communication â€" Part II: <i>Î´</i> â€"secrecy symbol error probability and secrecy diversity. IET Communications, 2014, 8, 1227-1238.	2.2	3
74	Concatenated coding and hybrid automatic repeat request for wiretap channels. IET Communications, 2014, 8, 1211-1216.	2.2	2
75	Secure multiple‐input single‐output communication â€" Part I: secrecy rates and switched power allocation. IET Communications, 2014, 8, 1217-1226.	2.2	1
76	Markov-population vehicular networks. , 2014, , .		0
77	Opportunistic Decouple-and-Forward Relaying: Harnessing Distributed Antennas. IEICE Transactions on Communications, 2014, E97.B, 1148-1156.	0.7	0
78	Energy Efficient Heterogeneous Cellular Networks. IEEE Journal on Selected Areas in Communications, 2013, 31, 840-850.	14.0	495
79	Interference Alignment in a Poisson Field of MIMO Femtocells. IEEE Transactions on Wireless Communications, 2013, 12, 2633-2645.	9.2	46
80	Optimal Linear Multihop System for DF Relaying in a Poisson Field of Interferers. IEEE Communications Letters, 2013, 17, 2029-2032.	4.1	9
81	Power allocation for secrecy diversity in MISOME wiretap channels. , 2013, , .		0
82	Intervehicle Communication: Cox-Fox Modeling. IEEE Journal on Selected Areas in Communications, 2013, 31, 418-433.	14.0	54
83	Analysis of intervehicle communication. , 2013, , .		0
84	Stochastic wireless secure multicasting. , 2013, , .		4
85	Random access transport capacity of dual-hop AF relaying in a wireless ad hoc networks. , 2012, , .		1
86	Information dissemination in MIMO networks. , 2012, , .		1
87	Switched power allocation for MISOME wiretap channels. , 2012, , .		4
88	Secure node packing of large-scale wireless networks. , 2012, , .		8
89	Optimal active sensing in heterogeneous cognitive radio networks. , 2012, , .		1
90	Modeling of intervehicle communication. , 2012, , .		1

#	Article	IF	Citations
91	Opportunistic interference alignment in MIMO femtocell networks. , 2012, , .		7
92	Superanalysis of Optimum Combining with Application to Femtocell Networks. IEEE Journal on Selected Areas in Communications, 2012, 30, 509-524.	14.0	27
93	Optimal energy tradeoff for active sensing in cognitive radio networks. , 2011, , .		2
94	Multi-hop Decode-and-Forward relaying in a wireless ad hoc networks. , 2011, , .		2
95	Semi-decentralized beamforming coordination for multiuser two-tier networks. , 2011, , .		0
96	Interference rejection combining in two-tier femtocell networks. , 2011, , .		5
97	Cognitive Network Interference- Modeling and Applications. , 2011, , .		6
98	WiMedia networks in the presence of hard DRP devices. , 2011, , .		0
99	Optimal Sensing Cardinality for Cognitive Radios. IEEE Communications Letters, 2011, 15, 716-718.	4.1	5
100	Uplink Coordinated Multi-Point ARQ in MIMO Cellular Systems. IEICE Transactions on Communications, 2011, E94-B, 3211-3224.	0.7	2
101	Beamforming optimization for multiuser two-tier networks. Journal of Communications and Networks, 2011, 13, 327-338.	2.6	100
102	Cognitive Network Interference. IEEE Journal on Selected Areas in Communications, 2011, 29, 480-493.	14.0	266
103	Power Allocation and Achievable Secrecy Rates in MISOME Wiretap Channels. IEEE Communications Letters, 2011, 15, 1196-1198.	4.1	27
104	Bursty relay networks in low-SNR regimes. IEEE Transactions on Communications, 2010, 58, 694-705.	7.8	3
105	MIMO Networks: The Effects of Interference. IEEE Transactions on Information Theory, 2010, 56, 336-349.	2.4	127
106	Superanalysis of the Interference Effect on Adaptive Antenna Systems. , 2010, , .		3
107	Amplify-and-forward two-way relay channels: Error exponents. , 2009, , .		2
108	Secure diversity-multiplexing tradeoffs in MIMO relay channels. , 2009, , .		7

#	Article	IF	Citations
109	Secure Joint Source-Channel Coding for Quasi-Static Fading Channels. , 2009, , .		1
110	Gallager's exponent for MIMO channels: a reliability-rate tradeoff. IEEE Transactions on Communications, 2009, 57, 972-985.	7.8	44
111	MIMO Cooperative Diversity with Scalar-Gain Amplify-and-Forward Relaying. IEEE Transactions on Communications, 2009, 57, 1932-1938.	7.8	64
112	Effect of joint spatial correlation on the diversity performance of space-time block codes. IEEE Communications Letters, 2009, 13, 477-479.	4.1	3
113	Bursty Wideband Relay Networks. , 2009, , .		0
114	Further results on MIMO networks based on the distribution of the eigenvalues of arbitrarily correlated Wishart matrices. , 2009, , .		0
115	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
116	Symbol Error Probability for M-Ary Signals in Stacy Fading Channels. IEICE Transactions on Communications, 2009, E92-B, 973-979.	0.7	1
117	MIMO Diversity in the Presence of Double Scattering. IEEE Transactions on Information Theory, 2008, 54, 2976-2996.	2.4	154
118	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
119	Asymptotic SEP for M-PSK Signals over $\pm$-μ Fading Channels. IEEE Communications Letters, 2008, 12, 675-677.	4.1	14
120	On the SEP of Cooperative Diversity with Opportunistic Relaying. IEEE Communications Letters, 2008, 12, 727-729.	4.1	78
121	Diversity in Double-Scattering MIMO Channels. IEEE Vehicular Technology Conference, 2008, , .	0.4	1
122	Random Coding Exponent for MIMO Channels. IEEE Vehicular Technology Conference, 2008, , .	0.4	10
123	Asymptotic statistics of mutual information for doubly correlated MIMO channels. IEEE Transactions on Wireless Communications, 2008, 7, 562-573.	9.2	50
124	Cooperative Diversity with Blind Relays in Nakagami-m Fading Channels: MRC Analysis. IEEE Vehicular Technology Conference, 2008, , .	0.4	3
125	Bursty narrowband relay networks in the low-SNR regime. , 2008, , .		2
126	Outage optimality of opportunistic amplify-and-forward relaying. IEEE Communications Letters, 2007, 11, 261-263.	4.1	146

#	ARTICLE	IF	CITATIONS
127	Cooperative Communications with Outage-Optimal Opportunistic Relaying. IEEE Transactions on Wireless Communications, 2007, 6, 3450-3460.	9.2	958
128	Effect of Line-of-Sight on Dual-Hop Nonregenerative Relay Wireless Communications. Vehicular Technology Conference-Fall (VTC-FALL), Proceedings, IEEE, 2007, , .	0.0	13
129	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
130	Saddlepoint approximation to the outage capacity of MIMO channels. IEEE Transactions on Wireless Communications, 2006, 5, 2679-2684.	9.2	9
131	Performance Analysis of Space–Time Block Codes Over Keyhole Nakagami-<tex>m</tex>Fading Channels. IEEE Transactions on Vehicular Technology, 2004, 53, 351-362.	6.3	201
132	On the Error Probability of Binary and<tex>M</tex>-ary Signals in Nakagami-<tex>m</tex>Fading Channels. IEEE Transactions on Communications, 2004, 52, 536-539.	7.8	95
133	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
134	Effect of keyholes on the symbol error rate of space-time block codes. IEEE Communications Letters, 2003, 7, 27-29.	4.1	47
135	Channel reliability estimation for turbo decoding in rayleigh fading channels with imperfect channel estimates. IEEE Communications Letters, 2002, 6, 503-505.	4.1	7
136	Turbo decoding in a Rayleigh fading channel with estimated channel state information. , 0, , .		12
137	Improved upper bound on the bit error probability of turbo codes for ML decoding with imperfect CSI in a Rayleigh fading channel. , 0, , .		3
138	Exact symbol error probability of orthogonal space-time block codes. , 0, , .		78
139	A novel error detection scheme for turbo coded hybrid ARQ. , 0, , .		1
140	Closed-form formulas for ergodic capacity of MIMO Rayleigh fading channels. , 0, , .		28
141	Performance analysis of space-time block codes over keyhole MIMO channels. , 0, , .		2
142	Capacity statistics and scheduling gain for MIMO systems in correlated Rayleigh fading. , 0, , .		1
143	Entanglement-Free Parameter Estimation of Generalized Pauli Channels. Quantum - the Open Journal for Quantum Science, 0, 5, 490.	0.0	10
144	Upper bound on the error probability for space-time codes in fast fading channels. , 0, , .		3