

# Hyundong Shin

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

118  
papers

3,583  
citations

27  
h-index

58  
g-index

144  
ext. papers

4,516  
ext. citations

5  
avg, IF

5.72  
L-index

#	Paper	IF	Citations
118	Error-mitigated photonic variational quantum eigensolver using a single-photon ququart. <i>Optica</i> , <b>2022</b> , 9, 88	8.6	0
117	Noise-Robust Quantum Teleportation With Counterfactual Communication. <i>IEEE Access</i> , <b>2022</b> , 10, 34706-34715	3.5	15
116	Self-guided quantum state tomography for limited resources.. <i>Scientific Reports</i> , <b>2022</b> , 12, 5092	4.9	1
115	On the Robustness of Quantum Algorithms for Blockchain Consensus.. <i>Sensors</i> , <b>2022</b> , 22,	3.8	1
114	Quantum Anonymous Private Information Retrieval for Distributed Networks. <i>IEEE Transactions on Communications</i> , <b>2022</b> , 1-1	6.9	0
113	Quantum anonymous notification for network-based applications. <i>Quantum Information Processing</i> , <b>2021</b> , 20, 1	1.6	1
112	Adaptive quantum state tomography with iterative particle filtering. <i>Quantum Information Processing</i> , <b>2021</b> , 20, 1	1.6	0
111	Local distinguishability of Bell-type states. <i>Quantum Information Processing</i> , <b>2021</b> , 20, 1	1.6	
110	Information carrier and resource optimization of counterfactual quantum communication. <i>Quantum Information Processing</i> , <b>2021</b> , 20, 1	1.6	1
109	Quantum Error Mitigation for Quantum State Tomography. <i>IEEE Access</i> , <b>2021</b> , 9, 107955-107964	3.5	0
108	Metrologically resourceful multipartite entanglement under quantum many-body effects. <i>Quantum Science and Technology</i> , <b>2021</b> , 6, 025007	5.5	1
107	Deep Learning Based Cellular Random Access Framework. <i>IEEE Transactions on Wireless Communications</i> , <b>2021</b> , 1-1	9.6	2
106	Quantum anonymous collision detection for quantum networks. <i>EPJ Quantum Technology</i> , <b>2021</b> , 8,	6.9	2
105	Molecular Communication in H-Diffusion. <i>IEEE Transactions on Communications</i> , <b>2020</b> , 68, 4293-4310	6.9	4
104	Quantum frequency synchronization of distant clock oscillators. <i>Quantum Information Processing</i> , <b>2020</b> , 19, 1	1.6	2
103	Joint Offloading and Charge Cost Minimization in Mobile Edge Computing. <i>IEEE Open Journal of the Communications Society</i> , <b>2020</b> , 1, 205-216	6.7	14
102	Measurement-Based Quantum Correlations for Quantum Information Processing. <i>Scientific Reports</i> , <b>2020</b> , 10, 2443	4.9	6

101	Discrete Weyl Channels With Markovian Memory. <i>IEEE Journal on Selected Areas in Communications</i> , <b>2020</b> , 38, 413-426	14.2	0
100	Joint time delay and energy optimization with intelligent overclocking in edge computing. <i>Science China Information Sciences</i> , <b>2020</b> , 63, 1	3.4	4
99	Online Resource Procurement and Allocation in a Hybrid Edge-Cloud Computing System. <i>IEEE Transactions on Wireless Communications</i> , <b>2020</b> , 19, 2137-2149	9.6	12
98	Power Allocation in Cache-Aided NOMA Systems: Optimization and Deep Reinforcement Learning Approaches. <i>IEEE Transactions on Communications</i> , <b>2020</b> , 68, 630-644	6.9	34
97	Connectivity in Molecular Communication With Random Time Constraints. <i>IEEE Access</i> , <b>2019</b> , 7, 113121-113130	3.5	1304
96	Robust Energy Efficiency Maximization in Multicast Downlink C-RAN. <i>IEEE Transactions on Vehicular Technology</i> , <b>2019</b> , 68, 8951-8965	6.8	6
95	Molecular Communication With Anomalous Diffusion in Stochastic Nanonetworks. <i>IEEE Transactions on Communications</i> , <b>2019</b> , 67, 8378-8393	6.9	8
94	Socially-Aware Caching in Wireless Networks With Random D2D Communications. <i>IEEE Access</i> , <b>2019</b> , 7, 58394-58406	3.5	9
93	User Behavior Driven MAC Scheduling for Body Sensor Networks: A Cross-Layer Approach. <i>IEEE Sensors Journal</i> , <b>2019</b> , 19, 7755-7765	4	3
92	Tightening Monogamy and Polygamy Inequalities of Multiqubit Entanglement. <i>Scientific Reports</i> , <b>2019</b> , 9, 3314	4.9	4
91	Quantum Correlation in Squeezed Generalized Amplitude Damping Channels with Memory. <i>Scientific Reports</i> , <b>2019</b> , 9, 4035	4.9	4
90	Directly estimating the Holevo capacity of discrete Weyl channels. <i>Physical Review A</i> , <b>2019</b> , 99,	2.6	6
89	Dual Quantum Zeno Superdense Coding. <i>Scientific Reports</i> , <b>2019</b> , 9, 11193	4.9	4
88	Purity-Based Continuity Bounds for von Neumann Entropy. <i>Scientific Reports</i> , <b>2019</b> , 9, 13912	4.9	4
87	Unified Monogamy Relations of Multipartite Entanglement. <i>Scientific Reports</i> , <b>2019</b> , 9, 16419	4.9	2
86	Distribution of entanglement in multipartite systems. <i>Quantum Information Processing</i> , <b>2019</b> , 18, 1	1.6	5
85	Enabling intelligence in fog computing to achieve energy and latency reduction. <i>Digital Communications and Networks</i> , <b>2019</b> , 5, 3-9	5.9	60
84	Joint Channel Identification and Estimation in Wireless Network: Sparsity and Optimization. <i>IEEE Transactions on Wireless Communications</i> , <b>2018</b> , 17, 3141-3153	9.6	4

83	Content-Aware Proactive Caching for Backhaul Offloading in Cellular Network. <i>IEEE Transactions on Wireless Communications</i> , <b>2018</b> , 17, 3128-3140	9.6	36
82	Dynamic Network Formation Game With Social Awareness in D2D Communications. <i>IEEE Transactions on Wireless Communications</i> , <b>2018</b> , 17, 6544-6558	9.6	4
81	Optimal Transmission in MIMO Channels With Multiuser Interference. <i>IEEE Transactions on Wireless Communications</i> , <b>2018</b> , 17, 7236-7251	9.6	
80	Learning for Computation Offloading in Mobile Edge Computing. <i>IEEE Transactions on Communications</i> , <b>2018</b> , 66, 6353-6367	6.9	101
79	Measurement-based quantum correlation in mixed-state quantum metrology. <i>Quantum Information Processing</i> , <b>2018</b> , 17, 1	1.6	5
78	Holevo Capacity of Discrete Weyl Channels. <i>Scientific Reports</i> , <b>2018</b> , 8, 17457	4.9	9
77	Counterfactual Bell-State Analysis. <i>Scientific Reports</i> , <b>2018</b> , 8, 14641	4.9	11
76	Quantum channel discrimination without entanglement. <i>Quantum Information Processing</i> , <b>2018</b> , 17, 1	1.6	4
75	Security of a control key in quantum key distribution. <i>Modern Physics Letters B</i> , <b>2017</b> , 31, 1750119	1.6	3
74	Cutset Bounds on the Capacity of MIMO Relay Channels. <i>IEEE Access</i> , <b>2017</b> , 5, 20339-20348	3.5	3
73	Practical deterministic secure quantum communication in a lossy channel. <i>Progress of Theoretical and Experimental Physics</i> , <b>2017</b> , 2017,	5.4	6
72	MIMO Capacity in Binomial Field Networks. <i>IEEE Access</i> , <b>2017</b> , 5, 12545-12551	3.5	6
71	Error Exponents for Distributed Detection. <i>IEEE Communications Letters</i> , <b>2016</b> , 20, 121-124	3.8	5
70	Exact ZF Analysis and Computer-Algebra-Aided Evaluation in Rank-1 LoS Rician Fading. <i>IEEE Transactions on Wireless Communications</i> , <b>2016</b> , 15, 5245-5259	9.6	9
69	Machine Learning for Wideband Localization. <i>IEEE Journal on Selected Areas in Communications</i> , <b>2015</b> , 33, 1357-1380	14.2	65
68	Distributed Local Linear Parameter Estimation Using Gaussian SPAWN. <i>IEEE Transactions on Signal Processing</i> , <b>2015</b> , 63, 244-257	4.8	19
67	Schur Complement Based Analysis of MIMO Zero-Forcing for Rician Fading. <i>IEEE Transactions on Wireless Communications</i> , <b>2015</b> , 14, 1757-1771	9.6	13
66	Anomalous Diffusion in Molecular Communication. <i>IEEE Communications Letters</i> , <b>2015</b> , 19, 1674-1677	3.8	10

65	\$H\$ -Transforms for Wireless Communication. <i>IEEE Transactions on Information Theory</i> , <b>2015</b> , 61, 3773-3889	17
64	MIMO Zero-Forcing Performance Evaluation Using the Holonomic Gradient Method. <i>IEEE Transactions on Wireless Communications</i> , <b>2015</b> , 14, 2322-2335	9.6 24
63	Least Square Cooperative Localization. <i>IEEE Transactions on Vehicular Technology</i> , <b>2015</b> , 64, 1318-1330	6.8 58
62	Exact MIMO Zero-Forcing Detection Analysis for Transmit-Correlated Rician Fading. <i>IEEE Transactions on Wireless Communications</i> , <b>2014</b> , 13, 1514-1527	9.6 32
61	Multicasting in Stochastic MIMO Networks. <i>IEEE Transactions on Wireless Communications</i> , <b>2014</b> , 13, 1-13	9.6 8
60	Secure multiple-input single-output communication [Part II: Secrecy symbol error probability and secrecy diversity]. <i>IET Communications</i> , <b>2014</b> , 8, 1227-1238	1.3 3
59	Concatenated coding and hybrid automatic repeat request for wiretap channels. <i>IET Communications</i> , <b>2014</b> , 8, 1211-1216	1.3 1
58	Secure multiple-input single-output communication [Part I: secrecy rates and switched power allocation]. <i>IET Communications</i> , <b>2014</b> , 8, 1217-1226	1.3 1
57	On OFDM Ranging Accuracy in Multipath Channels. <i>IEEE Systems Journal</i> , <b>2014</b> , 8, 104-114	4.3 18
56	Relevance vector machine for UWB localization <b>2014</b> ,	3
55	Learning dictionary and compressive sensing for WLAN localization <b>2014</b> ,	1
54	Opportunistic Decouple-and-Forward Relaying: Harnessing Distributed Antennas. <i>IEEE Transactions on Communications</i> , <b>2014</b> , E97.B, 1148-1156	0.5
53	Energy Efficient Heterogeneous Cellular Networks. <i>IEEE Journal on Selected Areas in Communications</i> , <b>2013</b> , 31, 840-850	14.2 377
52	Interference Alignment in a Poisson Field of MIMO Femtocells. <i>IEEE Transactions on Wireless Communications</i> , <b>2013</b> , 12, 2633-2645	9.6 38
51	Optimal Linear Multihop System for DF Relaying in a Poisson Field of Interferers. <i>IEEE Communications Letters</i> , <b>2013</b> , 17, 2029-2032	3.8 8
50	. <i>IEEE Journal on Selected Areas in Communications</i> , <b>2013</b> , 31, 418-433	14.2 41
49	Stochastic wireless secure multicasting <b>2013</b> ,	3
48	Superanalysis of Optimum Combining with Application to Femtocell Networks. <i>IEEE Journal on Selected Areas in Communications</i> , <b>2012</b> , 30, 509-524	14.2 18

47	Opportunistic interference alignment in MIMO femtocell networks <b>2012</b> ,		5
46	Random access transport capacity of dual-hop AF relaying in a wireless ad hoc networks <b>2012</b> ,		1
45	Information dissemination in MIMO networks <b>2012</b> ,		1
44	Switched power allocation for MISOME wiretap channels <b>2012</b> ,		1
43	Secure node packing of large-scale wireless networks <b>2012</b> ,		6
42	Optimal active sensing in heterogeneous cognitive radio networks <b>2012</b> ,		1
41	Cognitive Network Interference- Modeling and Applications <b>2011</b> ,		4
40	Optimal Sensing Cardinality for Cognitive Radios. <i>IEEE Communications Letters</i> , <b>2011</b> , 15, 716-718	3.8	5
39	Uplink Coordinated Multi-Point ARQ in MIMO Cellular Systems. <i>IEICE Transactions on Communications</i> , <b>2011</b> , E94-B, 3211-3224	0.5	1
38	. <i>Journal of Communications and Networks</i> , <b>2011</b> , 13, 327-338	4.1	65
37	. <i>IEEE Journal on Selected Areas in Communications</i> , <b>2011</b> , 29, 480-493	14.2	213
36	Power Allocation and Achievable Secrecy Rates in MISOME Wiretap Channels. <i>IEEE Communications Letters</i> , <b>2011</b> , 15, 1196-1198	3.8	23
35	Optimal energy tradeoff for active sensing in cognitive radio networks <b>2011</b> ,		2
34	Multi-hop Decode-and-Forward relaying in a wireless ad hoc networks <b>2011</b> ,		2
33	Interference rejection combining in two-tier femtocell networks <b>2011</b> ,		5
32	Superanalysis of the Interference Effect on Adaptive Antenna Systems <b>2010</b> ,		2
31	. <i>IEEE Transactions on Communications</i> , <b>2010</b> , 58, 694-705	6.9	2
30	. <i>IEEE Transactions on Information Theory</i> , <b>2010</b> , 56, 336-349	2.8	106

29	Secure diversity-multiplexing tradeoffs in MIMO relay channels <b>2009</b> ,		4
28	. <i>IEEE Transactions on Communications</i> , <b>2009</b> , 57, 972-985	6.9	31
27	MIMO Cooperative Diversity with Scalar-Gain Amplify-and-Forward Relaying. <i>IEEE Transactions on Communications</i> , <b>2009</b> , 57, 1932-1938	6.9	50
26	Effect of joint spatial correlation on the diversity performance of space-time block codes. <i>IEEE Communications Letters</i> , <b>2009</b> , 13, 477-479	3.8	3
25	Random coding error exponent for dual-hop nakagami-m fading channels with amplify-and-forward relaying. <i>IEEE Communications Letters</i> , <b>2009</b> , 13, 823-825	3.8	10
24	Symbol Error Probability for M-Ary Signals in Stacy Fading Channels. <i>IEICE Transactions on Communications</i> , <b>2009</b> , E92-B, 973-979	0.5	1
23	MRC Analysis of Cooperative Diversity with Fixed-Gain Relays in Nakagami-m Fading Channels. <i>IEEE Transactions on Wireless Communications</i> , <b>2008</b> , 7, 2069-2074	9.6	40
22	Asymptotic SEP for M-PSK Signals over Fading Channels. <i>IEEE Communications Letters</i> , <b>2008</b> , 12, 675-677, 3.8		9
21	On the SEP of Cooperative Diversity with Opportunistic Relaying. <i>IEEE Communications Letters</i> , <b>2008</b> , 12, 727-729	3.8	64
20	Random Coding Exponent for MIMO Channels. <i>IEEE Vehicular Technology Conference</i> , <b>2008</b> ,	0.1	5
19	. <i>IEEE Transactions on Wireless Communications</i> , <b>2008</b> , 7, 562-573	9.6	37
18	Cooperative Diversity with Blind Relays in Nakagami-m Fading Channels: MRC Analysis. <i>IEEE Vehicular Technology Conference</i> , <b>2008</b> ,	0.1	1
17	MIMO Diversity in the Presence of Double Scattering. <i>IEEE Transactions on Information Theory</i> , <b>2008</b> , 54, 2976-2996	2.8	121
16	. <i>IEEE Journal on Selected Topics in Signal Processing</i> , <b>2007</b> , 1, 700-713	7.5	51
15	Outage optimality of opportunistic amplify-and-forward relaying. <i>IEEE Communications Letters</i> , <b>2007</b> , 11, 261-263	3.8	108
14	. <i>IEEE Transactions on Wireless Communications</i> , <b>2007</b> , 6, 3450-3460	9.6	713
13	Effect of Line-of-Sight on Dual-Hop Nonregenerative Relay Wireless Communications. <i>Vehicular Technology Conference-Fall (VTC-FALL), Proceedings, IEEE</i> , <b>2007</b> ,		5
12	Saddlepoint approximation to the outage capacity of MIMO channels. <i>IEEE Transactions on Wireless Communications</i> , <b>2006</b> , 5, 2679-2684	9.6	4

11	Performance analysis of space-time block codes over keyhole Nakagami-m fading channels. <i>IEEE Transactions on Vehicular Technology</i> , <b>2004</b> , 53, 351-362	6.8	161
10	On the error probability of binary and M-ary signals in Nakagami-m fading channels. <i>IEEE Transactions on Communications</i> , <b>2004</b> , 52, 536-539	6.9	67
9	Capacity of multiple-antenna fading channels: spatial fading correlation, double scattering, and keyhole. <i>IEEE Transactions on Information Theory</i> , <b>2003</b> , 49, 2636-2647	2.8	390
8	Effect of keyholes on the symbol error rate of space-time block codes. <i>IEEE Communications Letters</i> , <b>2003</b> , 7, 27-29	3.8	32
7	Channel reliability estimation for turbo decoding in rayleigh fading channels with imperfect channel estimates. <i>IEEE Communications Letters</i> , <b>2002</b> , 6, 503-505	3.8	3
6	Capacity statistics and scheduling gain for MIMO systems in correlated Rayleigh fading		1
5	Closed-form formulas for ergodic capacity of MIMO Rayleigh fading channels		12
4	Improved upper bound on the bit error probability of turbo codes for ML decoding with imperfect CSI in a Rayleigh fading channel		2
3	Exact symbol error probability of orthogonal space-time block codes		36
2	Upper bound on the error probability for space-time codes in fast fading channels		2
1	Entanglement-Free Parameter Estimation of Generalized Pauli Channels. <i>Quantum - the Open Journal for Quantum Science</i> , 5, 490		5