Jungwoo Lee

List of Publications by Citations

118 papers	**1,348** citations	**16** h-index	**33** g-index
178 ext. papers	**1,717** ext. citations	**4.4** avg, IF	**5.25** L-index

#	Paper	IF	Citations
118	Non-Orthogonal Multiple Access in Multi-Cell Networks: Theory, Performance, and Practical Challenges **2017**, 55, 176-183		212
117	Coordinated Beamforming for Multi-Cell MIMO-NOMA. *IEEE Communications Letters*, **2017**, 21, 84-87	3.8	131
116	Enhanced charge collection and reduced recombination of CdS⌷iO2 quantum-dots sensitized solar cells in the presence of single-walled carbon nanotubes. *Applied Physics Letters*, **2008**, 92, 153510	3.4	82
115	. *IEEE Transactions on Communications*, **2010**, 58, 986-996	6.9	56
114	Multiuser MIMO User Selection Based on Chordal Distance. *IEEE Transactions on Communications*, **2012**, 60, 649-654	6.9	54
113	Secure Distributed Computing With Straggling Servers Using Polynomial Codes. *IEEE Transactions on Information Forensics and Security*, **2019**, 14, 141-150	8	49
112	Low complexity MIMO scheduling with channel decomposition using capacity upperbound. *IEEE Transactions on Communications*, **2008**, 56, 871-876	6.9	48
111	Private Information Retrieval for Secure Distributed Storage Systems. *IEEE Transactions on Information Forensics and Security*, **2018**, 13, 2953-2964	8	41
110	A new seam-tracking algorithm through characteristic-point detection for a portable welding robot. *Robotics and Computer-Integrated Manufacturing*, **2012**, 28, 1-13	9.2	41
109	Compressed Sensing-Aided Downlink Channel Training for FDD Massive MIMO Systems. *IEEE Transactions on Communications*, **2017**, 65, 2852-2862	6.9	39
108	Two-stage compressed sensing for millimeter wave channel estimation **2016**,		33
107	A Peer-to-Peer Interference Analysis for Automotive Chirp Sequence Radars. *IEEE Transactions on Vehicular Technology*, **2018**, 67, 8110-8117	6.8	33
106	Enhanced charge-collection efficiency of In2S3⌷h2O3 photoelectrochemical cells in the presence of single-walled carbon nanotubes. *Applied Physics Letters*, **2007**, 91, 043515	3.4	29
105	Relay-Aided NOMA in Uplink Cellular Networks. *IEEE Signal Processing Letters*, **2017**, 24, 1842-1846	3.2	22
104	Cooperative Wireless Powered Communication Networks With Interference Harvesting. *IEEE Transactions on Vehicular Technology*, **2018**, 67, 3701-3705	6.8	17
103	Joint Clock and Frequency Synchronization for OFDM-Based Cellular Systems. *IEEE Signal Processing Letters*, **2011**, 18, 757-760	3.2	16
102	Massive Uncoordinated Access With Massive MIMO: A Dictionary Learning Approach. *IEEE Transactions on Wireless Communications*, **2020**, 19, 1320-1332	9.6	14

101	Scalable deep learning-based recommendation systems. *ICT Express*, **2019**, 5, 84-88	4.9	14
100	On the number of users served in MIMO-NOMA cellular networks **2016**,		13
99	Projection based feedback compression for FDD massive MIMO systems **2014**,		13
98	A Deep Learning Approach for Automotive Radar Interference Mitigation **2018**,		13
97	Private Secure Coded Computation. *IEEE Communications Letters*, **2019**, 23, 1918-1921	3.8	12
96	Uplink Pilot Design for Multi-Cell Massive MIMO Networks. *IEEE Communications Letters*, **2016**, 20, 1619-1622	3.8	11
95	Hierarchical Blind Interference Alignment Over Interference Networks With Finite Coherence Time. *IEEE Transactions on Signal Processing*, **2016**, 64, 1289-1304	4.8	11
94	Locally Repairable Codes With Unequal Local Erasure Correction. *IEEE Transactions on Information Theory*, **2018**, 64, 7137-7152	2.8	11
93	A new ML based interference cancellation technique for layered space-time codes. *IEEE Transactions on Communications*, **2009**, 57, 930-936	6.9	11
92	Sum-Throughput Maximization in NOMA-Based WPCN: A Cluster-Specific Beamforming Approach. *IEEE Internet of Things Journal*, **2021**, 8, 10543-10556	10.7	11
91	Projection-Based Differential Feedback for FDD Massive MIMO Systems. *IEEE Transactions on Vehicular Technology*, **2016**, 1-1	6.8	11
90	Cyclic Interference Alignment for Full-Duplex Multi-Antenna Cellular Networks. *IEEE Transactions on Communications*, **2017**, 65, 2657-2671	6.9	10
89	Automotive Radar Signal Interference Mitigation Using RNN with Self Attention **2020**,		10
88	. *IEEE Transactions on Wireless Communications*, **2015**, 14, 3937-3947	9.6	10
87	A Maximum Throughput Design for Wireless Powered Communication Networks With IRS-NOMA. *IEEE Wireless Communications Letters*, **2021**, 10, 849-853	5.9	9
86	Private Secure Coded Computation **2019**,		9
85	Private Coded Matrix Multiplication. *IEEE Transactions on Information Forensics and Security*, **2020**, 15, 1434-1443	8	9
84	Cache-aided private information retrieval **2017**,		8

83	A programmable mutual capacitance sensing circuit for a large-sized touch panel **2012**,		8
82	Spatial-Correlation-Based Antenna Grouping for MIMO Systems. *IEEE Transactions on Vehicular Technology*, **2010**, 59, 2898-2905	6.8	8
81	Field emission properties of single-walled carbon nanotube with amphoteric doping by encapsulation of TTF and TCNQ. *Journal of Vacuum Science & Technology B*, **2008**, 26, 847		8
80	Linear Degrees of Freedom for K -user MISO Interference Channels With Blind Interference Alignment. *IEEE Transactions on Wireless Communications*, **2017**, 16, 1921-1934	9.6	7
79	Topological Interference Management With Reconfigurable Antennas. *IEEE Transactions on Communications*, **2017**, 65, 4926-4939	6.9	7
78	SINR and Throughput Analysis for Random Beamforming Systems with Adaptive Modulation. *IEEE Transactions on Wireless Communications*, **2013**, 12, 1460-1471	9.6	7
77	The electric field enhancements by single-walled carbon nanotubes in In2S3/In2O3 photoelectrochemical solar cells. *Applied Physics Letters*, **2010**, 96, 173506	3.4	7
76	Improved field emission properties of CdS deposited single walled carbon nanotube emitter. *Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics*, **2010**, 28, C2B43-C2B46	1.3	7
75	Large scale synthesis and enhanced field emission properties from hybrid CuO/ZnO nanorod. *Journal of Nanoscience and Nanotechnology*, **2011**, 11, 7299-302	1.3	7
74	Sensitive and Stable Gas Ionization Sensor Based on 3-D Single-Walled Carbon Nanotube Networks Suspended on ZnO Nanorods. *IEEE Sensors Journal*, **2015**, 15, 260-263	4	6
73	A Delay Relaxed RLS-DCD Algorithm for Real-Time Implementation. *IEEE Transactions on Circuits and Systems II: Express Briefs*, **2018**, 65, 61-65	3.5	6
72	MIMO Gaussian wiretap channels with two transmit antennas: Optimal precoding and power allocation **2017**,		6
71	Degrees of freedom for K-user SISO interference channels with blind interference alignment **2015**,		6
70	Imogolite as an electron emitter and a water sensor. *Journal of Materials Science: Materials in Electronics*, **2007**, 18, 893-897	2.1	6
69	Effect of double layer coating on carbon nanotubes for field emission and secondary electron emission measurement. *Journal of Vacuum Science & Technology B*, **2007**, 25, 570		6
68	Low complexity antenna selection for V-BLAST systems with OSIC detection. *Eurasip Journal on Wireless Communications and Networking*, **2011**, 2011,	3.2	5
67	Double layer-coated carbon nanotubes: Field emission and secondary-electron emission properties under presence of intense electric field. *Journal of Vacuum Science & Technology B*, **2009**, 27, 626		5
66	Asymmetric channel estimation for multi-user millimeter wave communications **2016**,		5

65	A MIMO Relay With Delayed Feedback Can Improve DoF in K- User MISO Interference Channel With No CSIT. *IEEE Transactions on Vehicular Technology*, **2016**, 65, 10188-10192	6.8	4
64	ChASER: Channel-aware symbol error reduction for high-performance WiFi systems in dynamic channel environment **2015**,		4
63	Multi-User Analog Network Coding with Spread Spectrum **2012**,		4
62	Linear Degrees-of-Freedom for the $M \times N$ MIMO Interference Channels With Constant Channel Coefficients. *IEEE Transactions on Signal Processing*, **2012**, 60, 6097-6103	4.8	4
61	Action-Bounding for Reinforcement Learning in Energy Harvesting Communication Systems **2018**,		4
60	Dynamic supersymbol design of blind interference alignment for K-user MISO broadcast channels **2015**,		3
59	Hybrid MU-MISO Scheduling with Limited Feedback Using Hierarchical Codebooks. *IEEE Transactions on Communications*, **2012**, 60, 1101-1113	6.9	3
58	Determinant-based MIMO scheduling with reduced pilot overhead. *Eurasip Journal on Wireless Communications and Networking*, **2012**, 2012,	3.2	3
57	Online update techniques for projection based Robust Principal Component Analysis. *ICT Express*, **2015**, 1, 59-62	4.9	3
56	Sub-fF trimmable readout circuit for tri-axes capacitive microaccelerometers **2012**,		3
55	Interference Reduction Modulation Based on Chirp Spread Spectrum for Capsule Endoscopy **2012**,		3
54	Opportunistic wireless network coding with relay node selection. *Eurasip Journal on Wireless Communications and Networking*, **2011**, 2011,	3.2	3
53	BER Based Multiuser MIMO User Selection with Block Diagonalization **2010**,		3
52	Squeezed Polynomial Codes: Communication-Efficient Coded Computation in Straggler-Exploiting Distributed Matrix Multiplication. *IEEE Access*, **2020**, 8, 190516-190528	3.5	3
51	. *IEEE Access*, **2021**, 9, 66675-66686	3.5	3
50	Polar codes for non-identically distributed channels. *Eurasip Journal on Wireless Communications and Networking*, **2016**, 2016,	3.2	2
49	Local erasure correction codes with unequal locality profile **2016**,		2
48	Sum-Throughput Maximization With QoS Constraints for Cooperative WPCNs. *IEEE Access*, **2019**, 7, 130622-130637	3.3	6

47	Grouping based blind interference alignment for K-user MISO interference channels **2015**,		2
46	Spectrum Sensing Using Robust Principal Component Analysis for Cognitive Radio **2013**,		2
45	Post-Scheduling SINR Mismatch Analysis for Multiuser Orthogonal Random Beamforming Systems. *IEEE Transactions on Communications*, **2011**, 59, 1509-1513	6.9	2
44	Evaluation of a cesium iodide photocathode assisted with MgO-coated multiwall carbon nanotubes. *Applied Physics Letters*, **2010**, 96, 141109	3.4	2
43	On the SINR Distribution for an Orthogonal Random Beamforming System and Its Performance **2010**,		2
42	Interference compensation technique for multilevel flash memory **2011**,		2
41	Determinant Based Multiuser MIMO Scheduling with Reduced Pilot Overhead **2011**,		2
40	Eigenmode BER based MU-MIMO scheduling for rate maximization with linear precoding and power allocation **2012**,		2
39	Antenna Selection for MIMO Systems with Sequential Nulling and Cancellation **2006**,		2
38	Low Complexity LDPC Decoding Techniques with Adaptive Selection of Edges. *IEEE Vehicular Technology Conference*, **2007**,	0.1	2
37	Low Complexity Multiuser MIMO Scheduling with Channel Decomposition **2007**,		2
36	Adaptive Channel Estimation Techniques for FDD Massive MIMO Systems. *The Journal of Korean Institute of Communications and Information Sciences*, **2015**, 40, 1239-1247	0.5	2
35	Fully Private Coded Matrix Multiplication From Colluding Workers. *IEEE Communications Letters*, **2021**, 25, 730-733	3.8	2
34	. *IEEE Transactions on Vehicular Technology*, **2016**, 1-1	6.8	2
33	Rate Maximization with Reinforcement Learning for Time-Varying Energy Harvesting Broadcast Channels **2019**,		2
32	Information-theoretic privacy in federated submodel learning. *ICT Express*, **2022**,	4.9	2
31	An Outer Bound on the Storage-Bandwidth Tradeoff of Exact-Repair Cooperative Regenerating Codes. *IEEE Transactions on Information Theory*, **2017**, 63, 7267-7282	2.8	1
30	Relay-Aided Space-Time Beamforming for Interference Networks With Partial Channel Knowledge. *IEEE Transactions on Signal Processing*, **2016**, 64, 5119-5130	4.8	1

| 29 | An outer bound on the storage-bandwidth tradeoff of exact-repair regenerating codes and its asymptotic optimality in high rates **2016**, | | 1 |

| 28 | An outer bound on the storage-bandwidth tradeoff of exact-repair cooperative regenerating codes **2016**, | | 1 |

| 27 | Linear Degrees of Freedom of Full-Duplex Cellular Networks With Reconfigurable Antennas. *IEEE Transactions on Wireless Communications*, **2017**, 16, 7195-7206 | 9.6 | 1 |

| 26 | Retrospective interference alignment for two-cell uplink MIMO cellular networks with delayed CSIT **2015**, | | 1 |

| 25 | Adaptive modulation for multiuser orthogonal random beamforming systems **2010**, | | 1 |

| 24 | Hierarchical codebook design for fast search with Grassmannian codebook **2012**, | | 1 |

| 23 | Improved field emission properties of CdSe deposited single-walled carbon nanotubes emitter **2009**, | | 1 |

| 22 | Capacity Comparison of Orthogonal and Non-Orthogonal Cooperative Relay Systems **2009**, | | 1 |

| 21 | Antenna grouping techniques for MIMO beamforming systems **2008**, | | 1 |

| 20 | Log likelihood ratio calculation without SNR estimation for forward link DS-CDMA receivers. *IEEE Signal Processing Letters*, **2004**, 11, 565-568 | 3.2 | 1 |

| 19 | Channel Parameter Tracking for Adaptive MMSE Channel Estimation in OFDM Systems. *IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences*, **2012**, E95.A, 1439-1443 | 0.4 | 1 |

| 18 | Bidirectional Limited-Magnitude Error Correction Codes for Flash Memories. *IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences*, **2013**, E96.A, 1602-1608 | 0.4 | 1 |

| 17 | Joint Modulation and Beamforming for MIMO Systems With 1-b DACs. *IEEE Transactions on Vehicular Technology*, **2020**, 69, 1075-1079 | 6.8 | 1 |

| 16 | On the Design of Tailored Neural Networks for Energy Harvesting Broadcast Channels: A Reinforcement Learning Approach. *IEEE Access*, **2020**, 8, 179678-179691 | 3.5 | 1 |

| 15 | On the achievability of interference alignment for full-duplex cellular networks with multiple antennas **2016**, | | 1 |

| 14 | Optimized Shallow Neural Networks for Sum-Rate Maximization in Energy Harvesting Downlink Multiuser NOMA Systems. *IEEE Journal on Selected Areas in Communications*, **2021**, 39, 982-997 | 14.2 | 1 |

| 13 | Sum-Rate Maximization Under QoS Constraints for WPCN with User Cooperation **2018**, | | 1 |

| 12 | Private and Secure Coded Computation in Straggler-Exploiting Distributed Matrix Multiplication **2021**, | | 1 |

11	Hierarchical Group Testing for Byzantine Attack Identification in Distributed Matrix Multiplication. *IEEE Journal on Selected Areas in Communications*, **2022**, 1-1	14.2	0
10	Securely Straggler-Exploiting Coded Computation for Distributed Matrix Multiplication. *IEEE Access* , **2021**, 9, 167374-167388	3.5	0
9	Multimode Precoding for Multiuser MIMO Systems With Finite Rate Feedback. *IEEE Wireless Communications Letters*, **2017**, 6, 142-145	5.9	
8	Multiuser analogue network coding with code division multiple access. *Electronics Letters*, **2013**, 49, 1337-1338	1.1	
7	Optimised frequency-domain bit allocation for video coding. *Electronics Letters*, **2003**, 39, 900	1.1	
6	Adaptive Interference Mitigation for Multilevel Flash Memory Devices. *IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences*, **2011**, E94-A, 2453-2457	0.4	
5	Intelligent Traffic Control Systems Based on IEEE 802.11 DCF/PCF. *IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences*, **2012**, E95.A, 1651-1654	0.4	
4	Multi-User Frequency Offset Correction for OFDMA Reverse Link. *IEICE Transactions on Communications*, **2012**, E95.B, 2481-2484	0.5	
3	On the Optimality of Gabidulin-Based LRCs as Codes with Multiple Local Erasure Correction. *IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences*, **2019**, E102.A, 1326-1329	0.4	
2	Shallow Reinforcement Learning for Energy Harvesting Communications With Imperfect Channel Knowledge. *IEEE Journal on Selected Topics in Signal Processing*, **2021**, 1-1	7.5	
1	Repair Rates for Multiple Descriptions on Distributed Storage. *Entropy*, **2022**, 24, 612	2.8	