

# Sunghwan Kim

## List of Publications by Citations

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120  
papers

1,361  
citations

20  
h-index

31  
g-index

129  
ext. papers

1,935  
ext. citations

3.1  
avg. IF

5.7  
L-index

#	Paper	IF	Citations
120	AURP: an AUV-aided underwater routing protocol for underwater acoustic sensor networks. <i>Sensors</i> , <b>2012</b> , 12, 1827-45	3.8	91
119	Sixth Generation (6G) Wireless Networks: Vision, Research Activities, Challenges and Potential Solutions. <i>Symmetry</i> , <b>2020</b> , 12, 676	2.7	88
118	Novel FEC Coding Scheme for Dimmable Visible Light Communication Based on the Modified Reed-Muller Codes. <i>IEEE Photonics Technology Letters</i> , <b>2011</b> , 23, 1514-1516	2.2	61
117	Quasi-Cyclic Low-Density Parity-Check Codes With Girth Larger Than $\geq 12$ . <i>IEEE Transactions on Information Theory</i> , <b>2007</b> , 53, 2885-2891	2.8	59
116	. <i>IEEE Access</i> , <b>2019</b> , 7, 111135-111144	3.5	53
115	Modified Reed-Muller Coding Scheme Made From the Bent Function for Dimmable Visible Light Communications. <i>IEEE Photonics Technology Letters</i> , <b>2013</b> , 25, 11-13	2.2	49
114	Adaptive FEC Codes Suitable for Variable Dimming Values in Visible Light Communication. <i>IEEE Photonics Technology Letters</i> , <b>2015</b> , 27, 967-969	2.2	36
113	Wideband Circularly Polarized MIMO Antenna for High Data Wearable Biotelemetric Devices. <i>IEEE Access</i> , <b>2020</b> , 8, 17935-17944	3.5	35
112	Wideband Wearable Antenna for Biomedical Telemetry Applications. <i>IEEE Access</i> , <b>2020</b> , 8, 15687-15694	3.5	34
111	Energy Harvesting Techniques for Wireless Sensor Networks/Radio-Frequency Identification: A Review. <i>Symmetry</i> , <b>2019</b> , 11, 865	2.7	34
110	Relay selection Algorithm for wireless cooperative networks: a learning-based approach. <i>IET Communications</i> , <b>2017</b> , 11, 1061-1066	1.3	32
109	High-Performance Multiple-Input Multiple-Output Antenna System For 5G Mobile Terminals. <i>Electronics (Switzerland)</i> , <b>2019</b> , 8, 1090	2.6	32
108	Improved Artificial Bee Colony Using Sine-Cosine Algorithm for Multi-Level Thresholding Image Segmentation. <i>IEEE Access</i> , <b>2020</b> , 8, 26304-26315	3.5	29
107	Frequency and Pattern Reconfigurable Antenna for Emerging Wireless Communication Systems. <i>Electronics (Switzerland)</i> , <b>2019</b> , 8, 407	2.6	26
106	An Internet of Things Based Bed-Egress Alerting Paradigm Using Wearable Sensors in Elderly Care Environment. <i>Sensors</i> , <b>2019</b> , 19,	3.8	23
105	An Empirical Evaluation of Machine Learning Techniques for Chronic Kidney Disease Prophecy. <i>IEEE Access</i> , <b>2020</b> , 8, 55012-55022	3.5	23
104	Vertex Graph-Coloring-Based Pilot Assignment With Location-Based Channel Estimation for Massive MIMO Systems. <i>IEEE Access</i> , <b>2018</b> , 6, 4599-4607	3.5	23

103	A Compact UWB Antenna with Independently Controllable Notch Bands. <i>Sensors</i> , <b>2019</b> , 19,	3.8	22
102	Channel State Information from Pure Communication to Sense and Track Human Motion: A Survey. <i>Sensors</i> , <b>2019</b> , 19,	3.8	22
101	Future 5G Network Based Smart Hospitals: Hybrid Detection Technique for Latency Improvement. <i>IEEE Access</i> , <b>2020</b> , 8, 153240-153249	3.5	21
100	S6AE: Securing 6LoWPAN Using Authenticated Encryption Scheme. <i>Sensors</i> , <b>2020</b> , 20,	3.8	19
99	. <i>IEEE Photonics Technology Letters</i> , <b>2015</b> , 27, 15-17	2.2	19
98	Quantum Key Distribution Protocol Based on Modified Generalization of Deutsch-Jozsa Algorithm in d-level Quantum System. <i>International Journal of Theoretical Physics</i> , <b>2019</b> , 58, 71-82	1.1	17
97	. <i>IEEE Photonics Technology Letters</i> , <b>2017</b> , 29, 1651-1654	2.2	17
96	On the girth of tanner (3, 5) quasi-cyclic LDPC codes. <i>IEEE Transactions on Information Theory</i> , <b>2006</b> , 52, 1739-1744	2.8	17
95	Low-Profile Frequency Reconfigurable Antenna for Heterogeneous Wireless Systems. <i>Electronics (Switzerland)</i> , <b>2019</b> , 8, 976	2.6	16
94	Modified U-Shaped Resonator as Decoupling Structure in MIMO Antenna. <i>Electronics (Switzerland)</i> , <b>2020</b> , 9, 1321	2.6	15
93	Adaptive Equalization for Dispersion Mitigation in Multi-Channel Optical Communication Networks. <i>Electronics (Switzerland)</i> , <b>2019</b> , 8, 1364	2.6	14
92	Solar PV Grid Power Flow Analysis. <i>Sustainability</i> , <b>2019</b> , 11, 1744	3.6	13
91	Low-Complexity Channel Estimation in 5G Massive MIMO-OFDM Systems. <i>Symmetry</i> , <b>2019</b> , 11, 713	2.7	12
90	Time Domain Equalization and Digital Back-Propagation Method-Based Receiver for Fiber Optic Communication Systems. <i>International Journal of Optics</i> , <b>2020</b> , 2020, 1-13	0.9	12
89	Handwritten Arabic Optical Character Recognition Approach Based on Hybrid Whale Optimization Algorithm With Neighborhood Rough Set. <i>IEEE Access</i> , <b>2020</b> , 8, 23011-23021	3.5	12
88	Multi-Bits Transfer Based on the Quantum Three-Stage Protocol with Quantum Error Correction Codes. <i>International Journal of Theoretical Physics</i> , <b>2019</b> , 58, 2043-2053	1.1	11
87	Interference Management in Ultra-Dense 5G Networks With Excessive Drone Usage. <i>IEEE Access</i> , <b>2020</b> , 8, 102155-102164	3.5	11
86	Multiscale Image Matting Based Multi-Focus Image Fusion Technique. <i>Electronics (Switzerland)</i> , <b>2020</b> , 9, 472	2.6	11

85	. <i>IEEE Photonics Technology Letters</i> , <b>2016</b> , 28, 225-228	2.2	11
84	Bit-Level Soft Run-Length Limited Decoding Algorithm for Visible Light Communication. <i>IEEE Photonics Technology Letters</i> , <b>2016</b> , 28, 237-240	2.2	11
83	Minimal-Entanglement Entanglement-Assisted Quantum Error Correction Codes from Modified Circulant Matrices. <i>Symmetry</i> , <b>2017</b> , 9, 122	2.7	11
82	A Deep Learning Approach for Mobility-Aware and Energy-Efficient Resource Allocation in MEC. <i>IEEE Access</i> , <b>2020</b> , 8, 179530-179546	3.5	11
81	LED Selection and MAP Detection for Generalized LED Index Modulation. <i>IEEE Photonics Technology Letters</i> , <b>2018</b> , 30, 1695-1698	2.2	11
80	Quantum stabilizer codes construction from Hermitian self-orthogonal codes over GF(4). <i>Journal of Communications and Networks</i> , <b>2018</b> , 20, 309-315	4.1	10
79	Performance Evaluation of Power-Beacon-Assisted Wireless-Powered NOMA IoT-Based Systems. <i>IEEE Internet of Things Journal</i> , <b>2021</b> , 8, 11655-11665	10.7	10
78	Pilot power allocation for maximising the sum rate in massive MIMO systems. <i>IET Communications</i> , <b>2018</b> , 12, 1367-1372	1.3	9
77	Hybrid Particle Swarm Algorithm for Products Scheduling Problem in Cellular Manufacturing System. <i>Symmetry</i> , <b>2019</b> , 11, 729	2.7	9
76	Computationally Efficient Channel Estimation in 5G Massive Multiple-Input Multiple-output Systems. <i>Electronics (Switzerland)</i> , <b>2018</b> , 7, 382	2.6	9
75	Effective Channel Gain-Based Access Point Selection in Cell-Free Massive MIMO Systems. <i>IEEE Access</i> , <b>2020</b> , 8, 108127-108132	3.5	8
74	Multi-Scale Geospatial Object Detection Based on Shallow-Deep Feature Extraction. <i>Remote Sensing</i> , <b>2019</b> , 11, 2525	5	8
73	Joint power allocation and orientation for uniform illuminance in indoor visible light communication. <i>Optics Express</i> , <b>2019</b> , 27, 28575-28587	3.3	8
72	Novel Bit Mapping for Generalized Spatial Modulation in VLC Systems. <i>IEEE Photonics Technology Letters</i> , <b>2019</b> , 31, 1257-1260	2.2	7
71	The fog on: Generalized teleportation by means of discrete-time quantum walks on N-lines and N-cycles. <i>Modern Physics Letters B</i> , <b>2019</b> , 33, 1950270	1.6	7
70	Performance Analysis and Deep Learning Design of Wireless Powered Cognitive NOMA IoT Short-Packet Communications with Imperfect CSI and SIC. <i>IEEE Internet of Things Journal</i> , <b>2021</b> , 1-1	10.7	7
69	Uplink Interference Management for Hetnets Stressed by Clustered Wide-Band Jammers. <i>IEEE Access</i> , <b>2019</b> , 7, 182679-182690	3.5	7
68	New Constructions of Quantum Stabilizer Codes Based on Difference Sets. <i>Symmetry</i> , <b>2018</b> , 10, 655	2.7	7

67	Disjoint Pilot Power and Data Power Allocation in Multi-Cell Multi-User Massive MIMO Systems. <i>IEEE Access</i> , <b>2018</b> , 6, 66513-66521	3.5	7
66	Adaptive Puncturing Method for Dimming in Visible Light Communication With Polar Codes. <i>IEEE Photonics Technology Letters</i> , <b>2018</b> , 30, 1780-1783	2.2	7
65	An Artificial Bee Colony Algorithm Based on a Multi-Objective Framework for Supplier Integration. <i>Applied Sciences (Switzerland)</i> , <b>2019</b> , 9, 588	2.6	6
64	A Low Complexity Near-Optimal Iterative Linear Detector for Massive MIMO in Realistic Radio Channels of 5G Communication Systems. <i>Entropy</i> , <b>2020</b> , 22,	2.8	6
63	Proactive Uplink Interference Management for Nonuniform Heterogeneous Cellular Networks. <i>IEEE Access</i> , <b>2020</b> , 8, 55501-55512	3.5	6
62	Decoding of Polar Codes for Intersymbol Interference in Visible-Light Communication. <i>IEEE Photonics Technology Letters</i> , <b>2018</b> , 30, 1111-1114	2.2	6
61	Receiver-Oriented Spatial Modulation in Visible Light Communication System. <i>IEEE Access</i> , <b>2019</b> , 7, 129666-129677	3.5	6
60	Intelligent Reflecting Surface-Aided Short-Packet Non-Orthogonal Multiple Access Systems. <i>IEEE Transactions on Vehicular Technology</i> , <b>2022</b> , 1-1	6.8	6
59	Cooperative NOMA-Enabled SWIPT IoT Networks with Imperfect SIC: Performance Analysis and Deep Learning Evaluation. <i>IEEE Internet of Things Journal</i> , <b>2021</b> , 1-1	10.7	6
58	LS-Solar-PV System Impact on Line Protection. <i>Electronics (Switzerland)</i> , <b>2019</b> , 8, 226	2.6	5
57	Impact of Stair and Diagonal Matrices in Iterative Linear Massive MIMO Uplink Detectors for 5G Wireless Networks. <i>Symmetry</i> , <b>2020</b> , 12, 71	2.7	5
56	Reversible Data-Hiding Systems with Modified Fluctuation Functions and Reed-Solomon Codes for Encrypted Image Recovery. <i>Symmetry</i> , <b>2017</b> , 9, 61	2.7	5
55	A modified reversible data hiding in encrypted image using enhanced measurement functions <b>2016</b> ,		5
54	Sequential message-passing decoding of LDPC codes by partitioning check nodes. <i>IEEE Transactions on Communications</i> , <b>2008</b> , 56, 1025-1031	6.9	5
53	Notice of Retraction: Enabling Hardware Green Internet of Things: A review of Substantial Issues. <i>IEEE Access</i> , <b>2020</b> , 1-1	3.5	5
52	Wireless Powered Cognitive NOMA-based IoT Relay Networks: Performance Analysis and Deep Learning Evaluation. <i>IEEE Internet of Things Journal</i> , <b>2021</b> , 1-1	10.7	5
51	Performance Analysis and Deep Learning Design of Underlay Cognitive NOMA-Based CDRT Networks with Imperfect SIC and Co-Channel Interference. <i>IEEE Transactions on Communications</i> , <b>2021</b> , 1-1	6.9	5
50	A Robust Hybrid Iterative Linear Detector for Massive MIMO Uplink Systems. <i>Symmetry</i> , <b>2020</b> , 12, 306	2.7	4

49	Deep Learning-Based Collaborative Constellation Design for Visible Light Communication. <i>IEEE Communications Letters</i> , <b>2020</b> , 24, 2522-2526	3.8	4
48	Layered Adaptive Collaborative Constellation for MIMO Visible Light Communication. <i>IEEE Access</i> , <b>2018</b> , 6, 74895-74907	3.5	4
47	Bouncer: A Resource-Aware Admission Control Scheme for Cloud Services. <i>Electronics (Switzerland)</i> , <b>2019</b> , 8, 928	2.6	3
46	An Effective Fairness Scheme for Named Data Networking. <i>Electronics (Switzerland)</i> , <b>2020</b> , 9, 749	2.6	3
45	Enhanced Joint and Separable Reversible Data Hiding in Encrypted Images with High Payload. <i>Symmetry</i> , <b>2017</b> , 9, 50	2.7	3
44	Performance Analysis of Short Packets in NOMA VLC Systems. <i>IEEE Access</i> , <b>2022</b> , 10, 6505-6517	3.5	3
43	Short-Packet Communications in NOMA-CDRT IoT Networks with Cochannel Interference and Imperfect SIC. <i>IEEE Transactions on Vehicular Technology</i> , <b>2022</b> , 1-1	6.8	3
42	Orientation-induced link-blocked receiver for MIMO visible light communication. <i>Optics Express</i> , <b>2020</b> , 28, 12157-12173	3.3	3
41	Uplink Performance Analysis of User-Centric Small Cell Aided Dense HCNets With Uplink-Downlink Decoupling. <i>IEEE Access</i> , <b>2020</b> , 8, 148460-148474	3.5	3
40	Cooperative Sequence Clustering and Decoding for DNA Storage System with Fountain Codes. <i>Bioinformatics</i> , <b>2021</b> ,	7.2	3
39	Deep Learning-Assisted Index Estimator for Generalized LED Index Modulation OFDM in Visible Light Communication. <i>Photonics</i> , <b>2021</b> , 8, 168	2.2	3
38	Construction and complement circuit of a quantum stabilizer code with length 7 <b>2016</b> ,		3
37	Phantom: Towards Vendor-Agnostic Resource Consolidation in Cloud Environments. <i>Electronics (Switzerland)</i> , <b>2019</b> , 8, 1183	2.6	3
36	Proactive Uplink Interference Mitigation in HetNets Stressed by Uniformly Distributed Wideband Jammers. <i>Electronics (Switzerland)</i> , <b>2019</b> , 8, 1496	2.6	3
35	New construction of binary and nonbinary quantum stabilizer codes based on symmetric matrices. <i>International Journal of Modern Physics B</i> , <b>2019</b> , 33, 1950274	1.1	3
34	Design of Polar Codes for Run-Length Limited Codes in Visible Light Communications. <i>IEEE Photonics Technology Letters</i> , <b>2019</b> , 31, 27-30	2.2	3
33	Power Allocation and User-AP Connection in Distributed Massive MIMO Systems. <i>IEEE Communications Letters</i> , <b>2021</b> , 25, 565-569	3.8	3
32	Efficient Transmission of Reversible Data Hiding in Encryption Images by Using Reed-Solomon Codes <b>2015</b> ,		2

31	A novel construction for quantum stabilizer codes based on binary formalism. <i>International Journal of Modern Physics B</i> , <b>2020</b> , 34, 2050059	1.1	2
30	Superposed constellation design for spatial multiplexing visible light communication systems. <i>Optics Express</i> , <b>2020</b> , 28, 38293-38303	3.3	2
29	Power Allocation for Multiple User-Type Massive MIMO Systems. <i>IEEE Transactions on Vehicular Technology</i> , <b>2020</b> , 69, 10965-10974	6.8	2
28	5G Cellular Networks: Coverage Analysis in the Presence of Inter-Cell Interference and Intentional Jammers. <i>Electronics (Switzerland)</i> , <b>2020</b> , 9, 1538	2.6	2
27	Error Rate-Based Log-Likelihood Ratio Processing for Low-Density Parity-Check Codes in DNA Storage. <i>IEEE Access</i> , <b>2020</b> , 8, 162892-162902	3.5	2
26	Multilevel LVDC Distribution System With Voltage Unbalancing and Disturbance Rejection Control Topology. <i>IEEE Access</i> , <b>2020</b> , 8, 133787-133801	3.5	2
25	Effective Receiver Design for MIMO Visible Light Communication with Quadrichromatic LEDs. <i>Electronics (Switzerland)</i> , <b>2019</b> , 8, 1383	2.6	2
24	A quantum three pass protocol with phase estimation for many bits transfer <b>2019</b> ,		2
23	Power Allocation for Energy Efficiency Maximization in Massive MIMO Systems. <i>IEEE Transactions on Vehicular Technology</i> , <b>2021</b> , 1-1	6.8	2
22	Performance Analysis of Optical Backhauled Cooperative NOMA Visible Light Communication. <i>IEEE Transactions on Vehicular Technology</i> , <b>2021</b> , 70, 12932-12945	6.8	2
21	PDTR: Probabilistic and Deterministic Tree-based Routing for Wireless Sensor Networks. <i>Sensors</i> , <b>2020</b> , 20,	3.8	1
20	Quantum stabilizer codes based on a new construction of self-orthogonal trace-inner product codes over GF(4). <i>International Journal of Modern Physics B</i> , <b>2020</b> , 34, 2050017	1.1	1
19	Multiple-Symbol Non-Coherent Detection for Differential QAM Modulation in Uplink Massive MIMO Systems. <i>Electronics (Switzerland)</i> , <b>2019</b> , 8, 693	2.6	1
18	New Codes with Finite Length for a Wiretap Channel. <i>Wireless Personal Communications</i> , <b>2014</b> , 75, 601-608		1
17	Concatenated coding and hybrid automatic repeat request for wiretap channels. <i>IET Communications</i> , <b>2014</b> , 8, 1211-1216	1.3	1
16	Soft Convolutional Codes Decoding Algorithm for Concatenated Codes in Visible Light Communication. <i>Wireless Personal Communications</i> , <b>2017</b> , 97, 6357-6367	1.9	1
15	Girth analysis of Tanner's (3, 5) QC LDPC codes <b>2005</b> ,		1
14	Enhanced Collaborative Constellation for Visible Light Communication System. <i>Advances in Science, Technology and Engineering Systems</i> , <b>2020</b> , 5, 259-263	0.3	1

13	Enhanced Multi-Level Multi-Pulse Modulation for MIMO Visible Light Communication. <i>IEEE Access</i> , <b>2020</b> , 8, 210116-210126	3.5	1
12	Performance Analysis of Dual-Hop Mixed Power Line Communication/Free-Space Optical Cooperative Systems. <i>Photonics</i> , <b>2021</b> , 8, 230	2.2	1
11	Pilot Power Allocation for Enhancing Channel Estimation Quality in Multi-cell Multi-user Massive MIMO Systems <b>2019</b> ,		1
10	Worst Cell Based Pilot Allocation in Massive MIMO Systems. <i>Electronics (Switzerland)</i> , <b>2018</b> , 7, 197	2.6	1
9	Learning-Based Relay Selection for Cooperative Networks with Space-Time Network Coding. <i>Wireless Personal Communications</i> , <b>2019</b> , 108, 907-920	1.9	0
8	Concatenated codes using Reed-Muller codes and bit-extension codes for a wiretap channel. <i>IET Communications</i> , <b>2015</b> , 9, 1437-1441	1.3	0
7	Performance Analysis of Wireless Powered Cooperative NOMA-Based CDRT IoT Networks. <i>IEEE Systems Journal</i> , <b>2022</b> , 1-12	4.3	0
6	Design of Nonbinary Error Correction Codes With a Maximum Run-Length Constraint to Correct a Single Insertion or Deletion Error for DNA Storage. <i>IEEE Access</i> , <b>2021</b> , 1-1	3.5	0
5	Performance Analysis of Multi-Hop Underwater Wireless Optical Communication Systems Over Exponential-Generalized Gamma Turbulence Channels. <i>IEEE Transactions on Vehicular Technology</i> , <b>2022</b> , 1-1	6.8	0
4	Performance Evaluation of Short Packet Communications in NOMA VLC Systems with imperfect CSI. <i>IEEE Access</i> , <b>2022</b> , 1-1	3.5	0
3	A Novel Quantum No-Key Protocol for Many Bits Transfer with Error Correction Codes. <i>Advances in Science, Technology and Engineering Systems</i> , <b>2020</b> , 5, 781-785	0.3	
2	Application of Classical Codes over GF(4) on Quantum Error Correction Codes. <i>Advances in Intelligent Systems and Computing</i> , <b>2020</b> , 116-122	0.4	
1	A General Framework for Secrecy Performance Analysis via Quantifier Elimination. <i>IEEE Communications Letters</i> , <b>2022</b> , 1-1	3.8	