

Sunghwan Kim

List of Publications by Year in descending order

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129
papers

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129
times ranked

2185
citing authors

#	ARTICLE	IF	CITATIONS
1	Sixth Generation (6G) Wireless Networks: Vision, Research Activities, Challenges and Potential Solutions. <i>Symmetry</i> , 2020, 12, 676.	1.1	207
2	AURP: An AUV-Aided Underwater Routing Protocol for Underwater Acoustic Sensor Networks. <i>Sensors</i> , 2012, 12, 1827-1845.	2.1	125
3	Electromagnetic Bandgap Backed Millimeter-Wave MIMO Antenna for Wearable Applications. <i>IEEE Access</i> , 2019, 7, 111135-111144.	2.6	104
4	Wideband Wearable Antenna for Biomedical Telemetry Applications. <i>IEEE Access</i> , 2020, 8, 15687-15694.	2.6	83
5	Quasi-Cyclic Low-Density Parity-Check Codes With Girth Larger Than 12 . <i>IEEE Transactions on Information Theory</i> , 2007, 53, 2885-2891.	1.5	82
6	Wideband Circularly Polarized MIMO Antenna for High Data Wearable Biotelemetric Devices. <i>IEEE Access</i> , 2020, 8, 17935-17944.	2.6	80
7	Novel FEC Coding Scheme for Dimmable Visible Light Communication Based on the Modified Reed-Muller Codes. <i>IEEE Photonics Technology Letters</i> , 2011, 23, 1514-1516.	1.3	75
8	Energy Harvesting Techniques for Wireless Sensor Networks/Radio-Frequency Identification: A Review. <i>Symmetry</i> , 2019, 11, 865.	1.1	72
9	Improved Artificial Bee Colony Using Sine-Cosine Algorithm for Multi-Level Thresholding Image Segmentation. <i>IEEE Access</i> , 2020, 8, 26304-26315.	2.6	62
10	High-Performance Multiple-Input Multiple-Output Antenna System For 5G Mobile Terminals. <i>Electronics (Switzerland)</i> , 2019, 8, 1090.	1.8	59
11	An Empirical Evaluation of Machine Learning Techniques for Chronic Kidney Disease Prophecy. <i>IEEE Access</i> , 2020, 8, 55012-55022.	2.6	58
12	Modified Reed-Muller Coding Scheme Made From the Bent Function for Dimmable Visible Light Communications. <i>IEEE Photonics Technology Letters</i> , 2013, 25, 11-13.	1.3	55
13	Frequency and Pattern Reconfigurable Antenna for Emerging Wireless Communication Systems. <i>Electronics (Switzerland)</i> , 2019, 8, 407.	1.8	52
14	Future 5G Network Based Smart Hospitals: Hybrid Detection Technique for Latency Improvement. <i>IEEE Access</i> , 2020, 8, 153240-153249.	2.6	47
15	Relay selection Algorithm for wireless cooperative networks: a learning-based approach. <i>IET Communications</i> , 2017, 11, 1061-1066.	1.5	45
16	Adaptive FEC Codes Suitable for Variable Dimming Values in Visible Light Communication. <i>IEEE Photonics Technology Letters</i> , 2015, 27, 967-969.	1.3	44
17	A Compact UWB Antenna with Independently Controllable Notch Bands. <i>Sensors</i> , 2019, 19, 1411.	2.1	43
18	Channel State Information from Pure Communication to Sense and Track Human Motion: A Survey. <i>Sensors</i> , 2019, 19, 3329.	2.1	41

#	ARTICLE	IF	CITATIONS
19	Low-Profile Frequency Reconfigurable Antenna for Heterogeneous Wireless Systems. Electronics (Switzerland), 2019, 8, 976.	1.8	36
20	An Internet of Things Based Bed-Egress Alerting Paradigm Using Wearable Sensors in Elderly Care Environment. Sensors, 2019, 19, 2498.	2.1	36
21	Modified U-Shaped Resonator as Decoupling Structure in MIMO Antenna. Electronics (Switzerland), 2020, 9, 1321.	1.8	36
22	S6AE: Securing 6LoWPAN Using Authenticated Encryption Scheme. Sensors, 2020, 20, 2707.	2.1	32
23	Cooperative NOMA-Enabled SWIPT IoT Networks With Imperfect SIC: Performance Analysis and Deep Learning Evaluation. IEEE Internet of Things Journal, 2022, 9, 2253-2266.	5.5	31
24	Solar PV Grid Power Flow Analysis. Sustainability, 2019, 11, 1744.	1.6	30
25	Vertex Graph-Coloring-Based Pilot Assignment With Location-Based Channel Estimation for Massive MIMO Systems. IEEE Access, 2018, 6, 4599-4607.	2.6	29
26	Effective Channel Gain-Based Access Point Selection in Cell-Free Massive MIMO Systems. IEEE Access, 2020, 8, 108127-108132.	2.6	29
27	Handwritten Arabic Optical Character Recognition Approach Based on Hybrid Whale Optimization Algorithm With Neighborhood Rough Set. IEEE Access, 2020, 8, 23011-23021.	2.6	29
28	Intelligent Reflecting Surface-Aided Short-Packet Non-Orthogonal Multiple Access Systems. IEEE Transactions on Vehicular Technology, 2022, 71, 4500-4505.	3.9	29
29	Dimming Control Systems With Polar Codes in Visible Light Communication. IEEE Photonics Technology Letters, 2017, 29, 1651-1654.	1.3	28
30	Performance Analysis and Deep Learning Design of Underlay Cognitive NOMA-Based CDRT Networks With Imperfect SIC and Co-Channel Interference. IEEE Transactions on Communications, 2021, 69, 8159-8174.	4.9	26
31	On the girth of tanner (3, 5) quasi-cyclic LDPC codes. IEEE Transactions on Information Theory, 2006, 52, 1739-1744.	1.5	24
32	New RLL Decoding Algorithm for Multiple Candidates in Visible Light Communication. IEEE Photonics Technology Letters, 2015, 27, 15-17.	1.3	24
33	Performance Analysis and Deep Learning Design of Wireless Powered Cognitive NOMA IoT Short-Packet Communications With Imperfect CSI and SIC. IEEE Internet of Things Journal, 2022, 9, 10464-10479.	5.5	24
34	Quantum Key Distribution Protocol Based on Modified Generalization of Deutsch-Jozsa Algorithm in d-level Quantum System. International Journal of Theoretical Physics, 2019, 58, 71-82.	0.5	23
35	Performance Evaluation of Power-Beacon-Assisted Wireless-Powered NOMA IoT-Based Systems. IEEE Internet of Things Journal, 2021, 8, 11655-11665.	5.5	23
36	Adaptive Equalization for Dispersion Mitigation in Multi-Channel Optical Communication Networks. Electronics (Switzerland), 2019, 8, 1364.	1.8	22

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37	Cooperative sequence clustering and decoding for DNA storage system with fountain codes. <i>Bioinformatics</i> , 2021, 37, 3136-3143.	1.8	22
38	A Deep Learning Approach for Mobility-Aware and Energy-Efficient Resource Allocation in MEC. <i>IEEE Access</i> , 2020, 8, 179530-179546.	2.6	21
39	Wireless Powered Cognitive NOMA-Based IoT Relay Networks: Performance Analysis and Deep Learning Evaluation. <i>IEEE Internet of Things Journal</i> , 2022, 9, 3913-3929.	5.5	21
40	Interference Management in Ultra-Dense 5G Networks With Excessive Drone Usage. <i>IEEE Access</i> , 2020, 8, 102155-102164.	2.6	20
41	Multi-Scale Geospatial Object Detection Based on Shallow-Deep Feature Extraction. <i>Remote Sensing</i> , 2019, 11, 2525.	1.8	19
42	Low-Complexity Channel Estimation in 5G Massive MIMO-OFDM Systems. <i>Symmetry</i> , 2019, 11, 713.	1.1	18
43	A Low Complexity Near-Optimal Iterative Linear Detector for Massive MIMO in Realistic Radio Channels of 5G Communication Systems. <i>Entropy</i> , 2020, 22, 388.	1.1	18
44	Joint power allocation and orientation for uniform illuminance in indoor visible light communication. <i>Optics Express</i> , 2019, 27, 28575.	1.7	17
45	Pilot power allocation for maximising the sum rate in massive MIMO systems. <i>IET Communications</i> , 2018, 12, 1367-1372.	1.5	16
46	Multiscale Image Matting Based Multi-Focus Image Fusion Technique. <i>Electronics (Switzerland)</i> , 2020, 9, 472.	1.8	16
47	Time Domain Equalization and Digital Back-Propagation Method-Based Receiver for Fiber Optic Communication Systems. <i>International Journal of Optics</i> , 2020, 2020, 1-13.	0.6	16
48	Soft-Input Soft-Output Run-Length Limited Decoding for Visible Light Communication. <i>IEEE Photonics Technology Letters</i> , 2016, 28, 225-228.	1.3	15
49	Bit-Level Soft Run-Length Limited Decoding Algorithm for Visible Light Communication. <i>IEEE Photonics Technology Letters</i> , 2016, 28, 237-240.	1.3	14
50	Computationally Efficient Channel Estimation in 5G Massive Multiple-Input Multiple-output Systems. <i>Electronics (Switzerland)</i> , 2018, 7, 382.	1.8	14
51	Hybrid Particle Swarm Algorithm for Productsâ€™ Scheduling Problem in Cellular Manufacturing System. <i>Symmetry</i> , 2019, 11, 729.	1.1	14
52	Multi-Bits Transfer Based on the Quantum Three-Stage Protocol with Quantum Error Correction Codes. <i>International Journal of Theoretical Physics</i> , 2019, 58, 2043-2053.	0.5	14
53	Performance Analysis of Short Packets in NOMA VLC Systems. <i>IEEE Access</i> , 2022, 10, 6505-6517.	2.6	14
54	Performance Analysis of Wireless Powered Cooperative NOMA-Based CDRT IoT Networks. <i>IEEE Systems Journal</i> , 2022, 16, 6501-6512.	2.9	14

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55	Performance Analysis of Optical Backhauled Cooperative NOMA Visible Light Communication. IEEE Transactions on Vehicular Technology, 2021, 70, 12932-12945.	3.9	14
56	Short-Packet Communications in NOMA-CDRT IoT Networks With Cochannel Interference and Imperfect SIC. IEEE Transactions on Vehicular Technology, 2022, 71, 5552-5557.	3.9	13
57	Turbo decoding in a Rayleigh fading channel with estimated channel state information. , 0, , .		12
58	Minimal-Entanglement Entanglement-Assisted Quantum Error Correction Codes from Modified Circulant Matrices. Symmetry, 2017, 9, 122.	1.1	12
59	LED Selection and MAP Detection for Generalized LED Index Modulation. IEEE Photonics Technology Letters, 2018, 30, 1695-1698.	1.3	12
60	Quantum stabilizer codes construction from Hermitian self-orthogonal codes over GF(4). Journal of Communications and Networks, 2018, 20, 309-315.	1.8	11
61	Proactive Uplink Interference Management for Nonuniform Heterogeneous Cellular Networks. IEEE Access, 2020, 8, 55501-55512.	2.6	11
62	Decoding of Polar Codes for Intersymbol Interference in Visible-Light Communication. IEEE Photonics Technology Letters, 2018, 30, 1111-1114.	1.3	10
63	Disjoint Pilot Power and Data Power Allocation in Multi-Cell Multi-User Massive MIMO Systems. IEEE Access, 2018, 6, 66513-66521.	2.6	10
64	Adaptive Puncturing Method for Dimming in Visible Light Communication With Polar Codes. IEEE Photonics Technology Letters, 2018, 30, 1780-1783.	1.3	10
65	Novel Bit Mapping for Generalized Spatial Modulation in VLC Systems. IEEE Photonics Technology Letters, 2019, 31, 1257-1260.	1.3	10
66	LS-Solar-PV System Impact on Line Protection. Electronics (Switzerland), 2019, 8, 226.	1.8	10
67	A Robust Hybrid Iterative Linear Detector for Massive MIMO Uplink Systems. Symmetry, 2020, 12, 306.	1.1	10
68	Uplink Interference Management for Hetnets Stressed by Clustered Wide-Band Jammers. IEEE Access, 2019, 7, 182679-182690.	2.6	9
69	Error Rate-Based Log-Likelihood Ratio Processing for Low-Density Parity-Check Codes in DNA Storage. IEEE Access, 2020, 8, 162892-162902.	2.6	9
70	Performance Analysis of Multi-Hop Underwater Wireless Optical Communication Systems Over Exponential-Generalized Gamma Turbulence Channels. IEEE Transactions on Vehicular Technology, 2022, 71, 6214-6227.	3.9	9
71	Receiver-Oriented Spatial Modulation in Visible Light Communication System. IEEE Access, 2019, 7, 129666-129677.	2.6	8
72	An Artificial Bee Colony Algorithm Based on a Multi-Objective Framework for Supplier Integration. Applied Sciences (Switzerland), 2019, 9, 588.	1.3	8

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73	5G Cellular Networks: Coverage Analysis in the Presence of Inter-Cell Interference and Intentional Jammers. Electronics (Switzerland), 2020, 9, 1538.	1.8	8
74	Uplink Performance Analysis of User-Centric Small Cell Aided Dense HCNets With Uplink-Downlink Decoupling. IEEE Access, 2020, 8, 148460-148474.	2.6	8
75	Performance of iterative multiuser detection with a partial PIC detector and serially concatenated codes. , 0, , .		7
76	Sequential message-passing decoding of LDPC codes by partitioning check nodes. IEEE Transactions on Communications, 2008, 56, 1025-1031.	4.9	7
77	A modified reversible data hiding in encrypted image using enhanced measurement functions. , 2016, , .		7
78	New Constructions of Quantum Stabilizer Codes Based on Difference Sets. Symmetry, 2018, 10, 655.	1.1	7
79	The fog on: Generalized teleportation by means of discrete-time quantum walks on N -lines and N -cycles. Modern Physics Letters B, 2019, 33, 1950270.	1.0	7
80	Layered Adaptive Collaborative Constellation for MIMO Visible Light Communication. IEEE Access, 2018, 6, 74895-74907.	2.6	6
81	Design of Polar Codes for Run-Length Limited Codes in Visible Light Communications. IEEE Photonics Technology Letters, 2019, 31, 27-30.	1.3	6
82	Deep Learning-Based Collaborative Constellation Design for Visible Light Communication. IEEE Communications Letters, 2020, 24, 2522-2526.	2.5	6
83	An Effective Fairness Scheme for Named Data Networking. Electronics (Switzerland), 2020, 9, 749.	1.8	6
84	Orientation-induced link-blocked receiver for MIMO visible light communication. Optics Express, 2020, 28, 12157.	1.7	6
85	Cycle Analysis and Construction of Protographs for QC LDPC Codes With Girth Larger Than 12. , 2007, , .		5
86	Reversible Data-Hiding Systems with Modified Fluctuation Functions and Reed-Solomon Codes for Encrypted Image Recovery. Symmetry, 2017, 9, 61.	1.1	5
87	Phantom: Towards Vendor-Agnostic Resource Consolidation in Cloud Environments. Electronics (Switzerland), 2019, 8, 1183.	1.8	5
88	Proactive Uplink Interference Mitigation in HetNets Stressed by Uniformly Distributed Wideband Jammers. Electronics (Switzerland), 2019, 8, 1496.	1.8	5
89	New construction of binary and nonbinary quantum stabilizer codes based on symmetric matrices. International Journal of Modern Physics B, 2019, 33, 1950274.	1.0	5
90	Notice of Retraction: Enabling Hardware Green Internet of Things: A review of Substantial Issues. IEEE Access, 2024, , 1-1.	2.6	5

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91	Impact of Stair and Diagonal Matrices in Iterative Linear Massive MIMO Uplink Detectors for 5G Wireless Networks. <i>Symmetry</i> , 2020, 12, 71.	1.1	5
92	Deep Learning-Assisted Index Estimator for Generalized LED Index Modulation OFDM in Visible Light Communication. <i>Photonics</i> , 2021, 8, 168.	0.9	5
93	Performance Analysis of Dual-Hop Mixed Power Line Communication/Free-Space Optical Cooperative Systems. <i>Photonics</i> , 2021, 8, 230.	0.9	5
94	Performance Evaluation of Short Packet Communications in NOMA VLC Systems With Imperfect CSI. <i>IEEE Access</i> , 2022, 10, 49781-49793.	2.6	5
95	Reconfigurable Intelligent Surface-Aided Cognitive NOMA Networks: Performance Analysis and Deep Learning Evaluation. <i>IEEE Transactions on Wireless Communications</i> , 2022, 21, 10662-10677.	6.1	5
96	Enhanced Joint and Separable Reversible Data Hiding in Encrypted Images with High Payload. <i>Symmetry</i> , 2017, 9, 50.	1.1	4
97	Bouncer: A Resource-Aware Admission Control Scheme for Cloud Services. <i>Electronics (Switzerland)</i> , 2019, 8, 928.	1.8	4
98	Real-Time Traffic Congestion Analysis Based on Collected Tweets. , 2019, , .		4
99	A quantum three pass protocol with phase estimation for many bits transfer. , 2019, , .		4
100	Power Allocation for Multiple User-Type Massive MIMO Systems. <i>IEEE Transactions on Vehicular Technology</i> , 2020, 69, 10965-10974.	3.9	4
101	Multilevel LVDC Distribution System With Voltage Unbalancing and Disturbance Rejection Control Topology. <i>IEEE Access</i> , 2020, 8, 133787-133801.	2.6	4
102	PDTR: Probabilistic and Deterministic Tree-based Routing for Wireless Sensor Networks. <i>Sensors</i> , 2020, 20, 1697.	2.1	4
103	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> , 2021, 9, 135354-135363.	2.6	4
104	Power Allocation for Energy Efficiency Maximization in Massive MIMO Systems. <i>IEEE Transactions on Vehicular Technology</i> , 2021, 70, 10570-10579.	3.9	4
105	Power Allocation and User-AP Connection in Distributed Massive MIMO Systems. <i>IEEE Communications Letters</i> , 2021, 25, 565-569.	2.5	4
106	Superposed constellation design for spatial multiplexing visible light communication systems. <i>Optics Express</i> , 2020, 28, 38293.	1.7	4
107	Girth analysis of Tanner's (3, 5) QC LDPC codes. , 2005, , .		3
108	Construction and complement circuit of a quantum stabilizer code with length 7. , 2016, , .		3

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109	Effective Receiver Design for MIMO Visible Light Communication with Quadrichromatic LEDs. Electronics (Switzerland), 2019, 8, 1383.	1.8	3
110	A novel construction for quantum stabilizer codes based on binary formalism. International Journal of Modern Physics B, 2020, 34, 2050059.	1.0	3
111	New Codes with Finite Length for a Wiretap Channel. Wireless Personal Communications, 2014, 75, 601-608.	1.8	2
112	Concatenated coding and hybrid automatic repeat request for wiretap channels. IET Communications, 2014, 8, 1211-1216.	1.5	2
113	Efficient Transmission of Reversible Data Hiding in Encryption Images by Using Reed-Solomon Codes. , 2015, , .		2
114	Worst Cell Based Pilot Allocation in Massive MIMO Systems. Electronics (Switzerland), 2018, 7, 197.	1.8	2
115	Multiple-Symbol Non-Coherent Detection for Differential QAM Modulation in Uplink Massive MIMO Systems. Electronics (Switzerland), 2019, 8, 693.	1.8	2
116	Enhanced Multi-Level Multi-Pulse Modulation for MIMO Visible Light Communication. IEEE Access, 2020, 8, 210116-210126.	2.6	2
117	Performance Analysis of Dual-Hop FSO Cooperative Systems over α, \pm Turbulence with Pointing Errors. Photonics, 2022, 9, 437.	0.9	2
118	Concatenated codes using Reed-Muller codes and bit-extension codes for a wiretap channel. IET Communications, 2015, 9, 1437-1441.	1.5	1
119	Soft Convolutional Codes Decoding Algorithm for Concatenated Codes in Visible Light Communication. Wireless Personal Communications, 2017, 97, 6357-6367.	1.8	1
120	Learning-Based Relay Selection for Cooperative Networks with Space-Time Network Coding. Wireless Personal Communications, 2019, 108, 907-920.	1.8	1
121	Pilot Power Allocation for Enhancing Channel Estimation Quality in Multi-cell Multi-user Massive MIMO Systems. , 2019, , .		1
122	Quantum stabilizer codes based on a new construction of self-orthogonal trace-inner product codes over GF(4). International Journal of Modern Physics B, 2020, 34, 2050017.	1.0	1
123	Enhanced Collaborative Constellation for Visible Light Communication System. Advances in Science, Technology and Engineering Systems, 2020, 5, 259-263.	0.4	1
124	A Novel Quantum No-Key Protocol for Many Bits Transfer with Error Correction Codes. Advances in Science, Technology and Engineering Systems, 2020, 5, 781-785.	0.4	1
125	A Quaternary Code Correcting a Burst of at Most Two Deletion or Insertion Errors in DNA Storage. Entropy, 2021, 23, 1592.	1.1	1
126	Novel Soft Decoding Algorithm of RLL Codes for Secure Physical-Layer Visible Light Communications. , 2015, , .		0

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127	Multilayer Collaborative Constellation for MIMO Visible Light Communication. , 2019, , .		0
128	Application of Classical Codes over GF(4) on Quantum Error Correction Codes. Advances in Intelligent Systems and Computing, 2020, , 116-122.	0.5	0
129	A General Framework for Secrecy Performance Analysis via Quantifier Elimination. IEEE Communications Letters, 2022, 26, 1216-1220.	2.5	0