

# Byung Moo Lee

## List of Publications by Year in descending order

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77  
papers

1,096  
citations

393982

19  
h-index

454577

30  
g-index

77  
all docs

77  
docs citations

77  
times ranked

948  
citing authors

#	ARTICLE	IF	CITATIONS
1	NOMA in Cooperative Underlay Cognitive Radio Networks Under Imperfect SIC. IEEE Access, 2020, 8, 86180-86195.	2.6	94
2	Outage Performance Analysis of Reconfigurable Intelligent Surfaces-Aided NOMA Under Presence of Hardware Impairment. IEEE Access, 2020, 8, 212156-212165.	2.6	69
3	Massive MIMO for Industrial Internet of Things in Cyber-Physical Systems. IEEE Transactions on Industrial Informatics, 2018, 14, 2641-2652.	7.2	65
4	Tunable Substrate Integrated Waveguide Diplexer With High Isolation and Wide Stopband. IEEE Microwave and Wireless Components Letters, 2019, 29, 456-458.	2.0	54
5	Massive MIMO With Massive Connectivity for Industrial Internet of Things. IEEE Transactions on Industrial Electronics, 2020, 67, 5187-5196.	5.2	41
6	Simultaneous harvest-and-transmit ambient backscatter communications under Rayleigh fading. Eurasip Journal on Wireless Communications and Networking, 2019, 2019, .	1.5	39
7	On Performance Analysis of Underlay Cognitive Radio-Aware Hybrid OMA/NOMA Networks with Imperfect CSI. Electronics (Switzerland), 2019, 8, 819.	1.8	39
8	An Adaptive Clipping and Filtering Technique for PAPR Reduction of OFDM Signals. Circuits, Systems, and Signal Processing, 2013, 32, 1335-1349.	1.2	36
9	Cylindrical Dielectric Resonator Antenna-Based Sensors for Liquid Chemical Detection. Sensors, 2019, 19, 1200.	2.1	35
10	UAV-Assisted RIS for Future Wireless Communications: A Survey on Optimization and Performance Analysis. IEEE Access, 2022, 10, 16320-16336.	2.6	32
11	Adaptive Predistorters for Linearization of High-Power Amplifiers in OFDM Wireless Communications. Circuits, Systems, and Signal Processing, 2006, 25, 59-80.	1.2	30
12	Energy Efficient Selected Mapping Schemes Based on Antenna Grouping for Industrial Massive MIMO-OFDM Antenna Systems. IEEE Transactions on Industrial Informatics, 2018, 14, 4804-4814.	7.2	26
13	On Exact Outage and Throughput Performance of Cognitive Radio based Non-Orthogonal Multiple Access Networks With and Without D2D Link. Sensors, 2019, 19, 3314.	2.1	26
14	Throughput Analysis of Multipair Two-Way Replaying Networks With NOMA and Imperfect CSI. IEEE Access, 2020, 8, 128942-128953.	2.6	25
15	Calibration for Channel Reciprocity in Industrial Massive MIMO Antenna Systems. IEEE Transactions on Industrial Informatics, 2018, 14, 221-230.	7.2	24
16	Improved Energy Efficiency of Massive MIMO-OFDM in Battery-Limited IoT Networks. IEEE Access, 2018, 6, 38147-38160.	2.6	24
17	Performance Analysis of the Clipping Scheme with SLM Technique for PAPR Reduction of OFDM Signals in Fading Channels. Wireless Personal Communications, 2012, 63, 331-344.	1.8	21
18	Adaptive Edge Preserving Weighted Mean Filter for Removing Random-Valued Impulse Noise. Symmetry, 2019, 11, 395.	1.1	21

#	ARTICLE	IF	CITATIONS
19	Hierarchical Cloud Computing Architecture for Context-Aware IoT Services. IEEE Transactions on Consumer Electronics, 2018, 64, 222-230.	3.0	19
20	Exploiting Joint Base Station Equipped Multiple Antenna and Full-Duplex D2D Users in Power Domain Division Based Multiple Access Networks. Sensors, 2019, 19, 2475.	2.1	19
21	ODPV: An Efficient Protocol to Mitigate Data Integrity Attacks in Intelligent Transport Systems. IEEE Access, 2020, 8, 114733-114740.	2.6	19
22	An Easy Network Onboarding Scheme for Internet of Things Networks. IEEE Access, 2019, 7, 8763-8772.	2.6	18
23	MIMO-OFDM PAPR reduction by selected mapping using side information power allocation. , 2010, 20, 462-471.		17
24	Energy-Efficient Operation of Massive MIMO in Industrial Internet-of-Things Networks. IEEE Internet of Things Journal, 2021, 8, 7252-7269.	5.5	17
25	Adaptive Switching Scheme for RS Overhead Reduction in Massive MIMO With Industrial Internet of Things. IEEE Internet of Things Journal, 2021, 8, 2585-2602.	5.5	16
26	An Efficient Neighbor Discovery Scheme for Mobile WSN. IEEE Access, 2019, 7, 4843-4855.	2.6	15
27	Massive MIMO for Underwater Industrial Internet of Things Networks. IEEE Internet of Things Journal, 2021, 8, 15542-15552.	5.5	15
28	An energy efficient antenna selection for large scale green MIMO systems. , 2013, , .		14
29	Enabling NOMA in Overlay Spectrum Sharing in Hybrid Satellite-Terrestrial Systems. IEEE Access, 2021, 9, 56616-56629.	2.6	14
30	Massive MIMO With Downlink Energy Efficiency Operation in Industrial Internet of Things. IEEE Transactions on Industrial Informatics, 2021, 17, 4669-4680.	7.2	12
31	Modeling and Analysis of Wearable Antennas. Electronics (Switzerland), 2019, 8, 7.	1.8	11
32	Energy-Efficient Massive MIMO in Massive Industrial Internet of Things Networks. IEEE Internet of Things Journal, 2022, 9, 3657-3671.	5.5	11
33	A combination of selected mapping and clipping to increase energy efficiency of OFDM systems. PLoS ONE, 2017, 12, e0185965.	1.1	9
34	Experimental Investigation of a Planar Antenna with Band Rejection Features for Ultra-Wide Band (UWB) Wireless Networks. International Journal of Antennas and Propagation, 2019, 2019, 1-11.	0.7	9
35	Enhanced Spectrum Access for QoS Provisioning in Multi-Class Cognitive D2D Communication System. IEEE Access, 2021, 9, 33608-33624.	2.6	9
36	A Computationally Efficient Tree-PTS Technique for PAPR Reduction of OFDM Signals. Wireless Personal Communications, 2012, 62, 431-442.	1.8	8

#	ARTICLE	IF	CITATIONS
37	An Underwater Acoustic Channel Modeling for Internet of Things Networks. <i>Wireless Personal Communications</i> , 2021, 116, 2697-2722.	1.8	8
38	Cell-Free Massive MIMO for Massive Low-Power Internet of Things Networks. <i>IEEE Internet of Things Journal</i> , 2022, 9, 6520-6535.	5.5	8
39	Design of an Energy Efficient Future Base Station with Large-Scale Antenna System. <i>Energies</i> , 2016, 9, 1083.	1.6	7
40	Energy Efficiency Gain of Cellular Base Stations with Large-Scale Antenna Systems for Green Information and Communication Technology. <i>Sustainability</i> , 2017, 9, 1123.	1.6	7
41	Robust Transmit Antenna Design for Performance Improvement of Cell-Edge Users: Approach of NOMA and Outage/Ergodic Capacity Analysis. <i>Sensors</i> , 2019, 19, 4907.	2.1	7
42	A tunable pre-distorter for linearization of solid state power amplifier in mobile wireless OFDM. , 2005, , .		6
43	Minimizing transmit power for cooperative multicell system with massive MIMO. , 2013, , .		6
44	Zeroâ€forcing and codebook based beamforming scheme for practical usage of multiuser MIMOâ€OFDM with uplink channel sounding. <i>International Journal of Communication Systems</i> , 2017, 30, e2918.	1.6	6
45	Transmission Power Determination Based on Power Amplifier Operations in Large-Scale MIMO-OFDM Systems. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 709.	1.3	6
46	Cognitive Radio-Assisted NOMA Broadcasting for 5G Cellular V2X Communications: Model of Roadside Unit Selection and SWIPT. <i>Sensors</i> , 2020, 20, 1786.	2.1	6
47	Energy efficient scheduling and power control of massive MIMO in massive IoT networks. <i>Expert Systems With Applications</i> , 2022, 200, 116920.	4.4	6
48	Side Information Power Allocation for MIMO-OFDM PAPR Reduction by Selected Mapping. , 2007, , .		5
49	Interference-Aware PAPR Reduction Scheme to Increase the Energy Efficiency of Large-Scale MIMO-OFDM Systems. <i>Energies</i> , 2017, 10, 1184.	1.6	5
50	Simplified Antenna Group Determination of RS Overhead Reduced Massive MIMO for Wireless Sensor Networks. <i>Sensors</i> , 2018, 18, 84.	2.1	5
51	Efficient Pilot Decontamination Schemes in 5G Massive MIMO Systems. <i>Electronics (Switzerland)</i> , 2019, 8, 55.	1.8	5
52	Outage Performance Improvement by Selected User in D2D Transmission and Implementation of Cognitive Radio-Assisted NOMA. <i>Sensors</i> , 2019, 19, 4840.	2.1	5
53	The impact of impulse postfix length on the BER performance of IPâ€OFDM systems. <i>International Journal of Communication Systems</i> , 2011, 24, 269-276.	1.6	4
54	Transmit Antenna Selection Schemes for NOMA with Randomly Moving Interferers in Interference-Limited Environment. <i>Electronics (Switzerland)</i> , 2020, 9, 36.	1.8	4

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55	Self-Organized Efficient Spectrum Management through Parallel Sensing in Cognitive Radio Network. <i>Wireless Communications and Mobile Computing</i> , 2021, 2021, 1-22.	0.8	4
56	Design of an Adaptive Predistorter for Solid State Power Amplifier in Wireless OFDM Systems. <i>Research Letters in Signal Processing</i> , 2009, 2009, 1-5.	0.7	3
57	Practical determination of impulse sample power boosting factor in impulse postfix OFDM systems. <i>IEEE Communications Letters</i> , 2009, 13, 187-189.	2.5	3
58	Beam Grouping Based RS Resource Reuse and De-Contamination in Large Scale MIMO Systems. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 96.	1.3	3
59	QoS-Oriented Optimal Relay Selection in Cognitive Radio Networks. <i>Wireless Communications and Mobile Computing</i> , 2021, 2021, 1-15.	0.8	3
60	Quintuple Band Antenna for Wireless Applications with Small Form Factor. <i>Computers, Materials and Continua</i> , 2021, 66, 2241-2251.	1.5	3
61	Film Density Controlled-InGaZnO Multi-Stacked Channel Based Thin-Film Transistors Using a Solution Process. <i>Science of Advanced Materials</i> , 2017, 9, 1578-1582.	0.1	3
62	Compact ridged substrate integrated waveguide cavity backed slot antenna. , 2013, , .		2
63	Trellis Code Design of Block Interleaved CIOD-STBCs for Time Varying Channels. <i>IEEE Transactions on Vehicular Technology</i> , 2017, 66, 10542-10545.	3.9	2
64	Distance Estimation Scheme Exploiting IR-UWB Radar with Clutter Suppressing Algorithm in Indoor Environments. <i>Journal of Electrical Engineering and Technology</i> , 2019, 14, 1759-1769.	1.2	2
65	Improved Underwater Horizontal Ranging Algorithm using Reflected Acoustic Wave. <i>Wireless Personal Communications</i> , 2020, 111, 1775-1786.	1.8	2
66	The Impact of Nonlinear HPA on the Determination of the Impulse Sample Power in IP-OFDM Systems. <i>Wireless Personal Communications</i> , 2013, 70, 1353-1361.	1.8	1
67	Energy efficient basestation operation with traffic-specific energy consumption. , 2013, , .		1
68	Optimal transmission power determination to increase energy efficiency of large-scale MIMO antenna systems. <i>Journal of Electromagnetic Waves and Applications</i> , 2017, 31, 383-393.	1.0	1
69	Implementation of a Regional Spectrum Sensing Based Cognitive Radio System for Digital TV White Space. <i>IETE Technical Review (Institution of Electronics and Telecommunication Engineers, India)</i> , 2018, 35, 590-598.	2.1	1
70	Multi-Point Media Content Sharing Scheme in Internet of Things Networks. <i>IEEE Access</i> , 2018, 6, 71360-71367.	2.6	1
71	Performance Analysis of Cognitive Relay-Assisted Ambient Backscatter with MRC over Nakagami-m Fading Channels. <i>Sensors</i> , 2020, 20, 3447.	2.1	1
72	Secure Cognitive Radio-Enabled Vehicular Communications under Spectrum-Sharing Constraints. <i>Sensors</i> , 2021, 21, 7160.	2.1	1

#	ARTICLE	IF	CITATIONS
73	Nonlinear and Decision-Oriented Signal Processing for OFDM-Based Wireless Communications. , 2006, , .		0
74	A power boosting factor determination for the impulse sample in Impulse Postfix OFDM systems. , 2008, , .		0
75	An energy efficient PAPR reduction technique for mobile terminals. , 2012, , .		0
76	A Guard Band Decision Algorithm Based on Information of Spectrum Masks for OFDM-Based CR Systems. Wireless Personal Communications, 2013, 68, 1463-1476.	1.8	0
77	Some New Nonlinear and Symbol Manipulation Techniques to Mitigate Adverse Effects of High PAPR in OFDM Wireless Communications. , 2008, , 245-255.		0