

Hyoung-Kyu Song

List of Publications by Year in descending order

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145
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all docs

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docs citations

145
times ranked

479
citing authors

#	ARTICLE	IF	CITATIONS
1	Peak-to-average power ratio in MIMO-OFDM systems using selective mapping. IEEE Communications Letters, 2003, 7, 575-577.	2.5	93
2	Combined QRD-M and DFE detection technique for simple and efficient signal detection in MIMO-OFDM systems. IEEE Transactions on Wireless Communications, 2009, 8, 1632-1638.	6.1	34
3	Signal Detection Scheme in Ambient Backscatter System With Multiple Antennas. IEEE Access, 2017, 5, 14543-14547.	2.6	32
4	Signal Detection Scheme Based on Adaptive Ensemble Deep Learning Model. IEEE Access, 2018, 6, 21342-21349.	2.6	30
5	Machine Learning Model for Adaptive Modulation of Multi-Stream in MIMO-OFDM System. IEEE Access, 2019, 7, 5141-5152.	2.6	24
6	Performance Improvement of Cooperative MB-OFDM System Based Coming Home Network. IEEE Transactions on Consumer Electronics, 2007, 53, 442-447.	3.0	22
7	A simple construction of ofdm-cdma signals with low peak-to-average power ratio. IEEE Transactions on Broadcasting, 2003, 49, 403-407.	2.5	20
8	Peak-to-average power control for multiple-antenna HIPERLAN/2 and IEEE802.11a systems. IEEE Transactions on Consumer Electronics, 2003, 49, 1078-1083.	3.0	20
9	Determination Scheme for Detection Thresholds Using Multiple Antennas in Wi-Fi Backscatter Systems. IEEE Access, 2017, 5, 22159-22165.	2.6	19
10	Relay Selection of Cooperative Diversity Networks With Interference-Limited Destination. IEEE Transactions on Vehicular Technology, 2013, 62, 4658-4665.	3.9	18
11	Novel MIMO Detection With Improved Complexity for Near-ML Detection in MIMO-OFDM Systems. IEEE Access, 2019, 7, 60389-60398.	2.6	16
12	Efficient Sequential Detection of Carrier Frequency Offset and Primary Synchronization Signal for 5G NR Systems. IEEE Transactions on Vehicular Technology, 2020, 69, 9212-9216.	3.9	16
13	Error Performance Analysis of STBC-OFDM Systems With Parameter Imbalances. IEEE Transactions on Broadcasting, 2004, 50, 76-82.	2.5	15
14	Vision-Based Defect Inspection and Condition Assessment for Sewer Pipes: A Comprehensive Survey. Sensors, 2022, 22, 2722.	2.1	15
15	Efficient detection scheme in MIMO-OFDM for high speed wireless home network system. IEEE Transactions on Consumer Electronics, 2009, 55, 507-512.	3.0	14
16	An Improved Transmission Rate in Cooperative Communication Based on OFDMA System. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2013, E96.A, 1667-1670.	0.2	13
17	Intelligent Reflecting Surface for Spectral Efficiency Maximization in the Multi-User MISO Communication Systems. IEEE Access, 2021, 9, 134695-134702.	2.6	13
18	Cooperative diversity technique for MIMO-OFDM uplink in wireless interactive broadcasting. IEEE Transactions on Consumer Electronics, 2008, 54, 1627-1634.	3.0	11

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19	BER and Diversity Order Analysis of Distributed Alamouti's Code with CSI-Assisted Relays. IEEE Transactions on Wireless Communications, 2011, 10, 1199-1211.	6.1	10
20	An Efficient Precoding Method for Improved Downlink Massive MIMO System. IEEE Access, 2019, 7, 112318-112326.	2.6	10
21	SER Analysis and PDF Derivation for Multi-Hop Amplify-and-Forward Relay Systems. IEEE Transactions on Communications, 2010, 58, 2413-2424.	4.9	9
22	Cooperative diversity scheme using SPC in MIMO-OFDMA system. Electronics Letters, 2015, 51, 364-366.	0.5	9
23	Hybrid Precoding Technique With Iterative Algorithm for MIMO-OFDM System. IEEE Access, 2020, 8, 171423-171434.	2.6	9
24	Detection for an AF Cooperative Diversity Network in the Presence of Interference. IEEE Communications Letters, 2013, 17, 653-656.	2.5	7
25	An Improved Low Complexity Detection Scheme in MIMO-OFDM Systems. IEICE Transactions on Information and Systems, 2014, E97.D, 1336-1339.	0.4	7
26	Adaptive Relay Selection and Data Transmission Scheme for Cooperative Communication. Wireless Personal Communications, 2016, 91, 267-276.	1.8	7
27	Full-Duplex With Self-Energy Recycling in the RF Powered Multi-Antenna Relay Channels. IEEE Signal Processing Letters, 2019, 26, 1516-1520.	2.1	7
28	Efficient Feedback Design for Spatial Phase Coding in MISO-OFDM Systems. IEICE Transactions on Communications, 2011, E94-B, 2149-2152.	0.4	7
29	Adaptive Cooperative Transmission with Spatial Phase Coding for Interference Mitigation in the Wireless Cellular Communication. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2017, E100.A, 317-321.	0.2	7
30	Channel-Adaptive Detection Scheme Based on Threshold in MIMO-OFDM Systems. IEICE Transactions on Information and Systems, 2014, E97.D, 1644-1647.	0.4	7
31	Limited Channel Feedback Scheme for Reconfigurable Intelligent Surface Assisted MU-MIMO Wireless Communication Systems. IEEE Access, 2022, 10, 50288-50297.	2.6	7
32	Advanced QRD-M Detection with Iterative Scheme in the MIMO-OFDM System. IEICE Transactions on Information and Systems, 2014, E97.D, 340-343.	0.4	6
33	Performance Enhancement Using Receive Diversity With Power Adaptation in the NOMA System. IEEE Access, 2019, 7, 102867-102875.	2.6	6
34	Hybrid Beamforming With Reduced RF Chain Based on PZF and PD-NOMA in mmWave Massive MIMO Systems. IEEE Access, 2021, 9, 60695-60703.	2.6	6
35	Space-Time Cyclic Delay Diversity Encoded Cooperative Transmissions for Multiple Relays. IEICE Transactions on Communications, 2009, E92-B, 2320-2323.	0.4	6
36	Combined Deep Learning and SOR Detection Technique for High Reliability in Massive MIMO Systems. IEEE Access, 2021, 9, 148976-148987.	2.6	6

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37	Cooperative OFDM system for high throughput in wireless personal area networks. IEEE Transactions on Consumer Electronics, 2010, 56, 458-462.	3.0	5
38	Enhanced Lattice-Reduction aided detection for MIMO systems with QRD-M detector. IEICE Electronics Express, 2011, 8, 767-772.	0.3	5
39	Cooperative Diversity Technique Using Spatial Phase Coding Based on OFDMA System. IEICE Transactions on Information and Systems, 2014, E97.D, 1897-1900.	0.4	5
40	Low-complexity joint detection of carrier frequency offset and sector cell index for LTE cellular system. International Journal of Communication Systems, 2017, 30, e2859.	1.6	5
41	A Simplified QRD-M Algorithm in MIMO-OFDM Systems. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2017, E100.A, 2195-2199.	0.2	5
42	An Enhanced Precoder for Multi User Multiple-Input Multiple-Output Downlink Systems. Applied Sciences (Switzerland), 2020, 10, 4547.	1.3	5
43	Advanced Hybrid Beamforming Technique in MU-MIMO Systems. Applied Sciences (Switzerland), 2020, 10, 5961.	1.3	5
44	Adaptive K-Best BFTS Signal Detection Algorithm Based on the Channel Condition for MIMO-OFDM Signal Detector. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2017, E100.A, 2207-2211.	0.2	5
45	Extended DFE Detection Scheme in MIMO-OFDM System. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2015, E98.A, 1549-1552.	0.2	5
46	Cooperative Communication Using the DF Protocol in the Hierarchical Modulation. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2015, E98.A, 1990-1994.	0.2	4
47	Cooperative Transmission Scheme for Cell Interference Mitigation in Wireless Communication System. Wireless Personal Communications, 2017, 97, 723-732.	1.8	4
48	Low-Complexity QRD-M with Path Eliminations in MIMO-OFDM Systems. Applied Sciences (Switzerland), 2017, 7, 1206.	1.3	4
49	Relay Selection Scheme for Improved Performance in the Wireless Communication Systems Based on OFDM. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2017, E100.A, 2200-2203.	0.2	4
50	Relay Selection Scheme for Multi-Hop Transmission of MU-MIMO System. Applied Sciences (Switzerland), 2018, 8, 1747.	1.3	4
51	Adaptive CoMP with Spatial Phase Coding for Interference Mitigation in the Heterogeneous Network. Applied Sciences (Switzerland), 2018, 8, 631.	1.3	4
52	Throughput Enhancement in Downlink MU-MIMO Using Multiple Dimensions. Electronics (Switzerland), 2019, 8, 758.	1.8	4
53	Spatial Phase Coding With CoMP for Performance Enhancement Based on MIMO-OFDM in HetNet System. IEEE Access, 2019, 7, 62240-62250.	2.6	4
54	A Novel Relay Selection Scheme Based on Q-Learning in Multi-Hop Wireless Networks. Applied Sciences (Switzerland), 2020, 10, 5252.	1.3	4

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55	An Efficient Modified Gauss Seidel Precoder for Downlink Massive MIMO Systems. IEEE Access, 2020, 8, 202164-202173.	2.6	4
56	Lattice-Reduction Aided Signal Detection Method with Switching Detection Based on Channel Condition. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2017, E100.A, 2539-2542.	0.2	4
57	Enhanced Performance Using Precoding Scheme with Limited Feedback Information in the Heterogeneous Network. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2017, E100.A, 916-919.	0.2	4
58	Channel Condition Number Based Switching Detection Scheme in MIMO-OFDM System. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2013, E96.A, 387-390.	0.2	4
59	Efficient Partial Single Relay Selection Scheme for Wireless Communications. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2015, E98.A, 923-926.	0.2	4
60	Auto focus filter design and implementation using correlation between filter and auto focus criterion. , 0, , .		3
61	Relay Precoding for Non-Regenerative MIMO Relay Systems with Partial CSI in the Presence of Interferers. IEEE Transactions on Wireless Communications, 2012, 11, 1521-1531.	6.1	3
62	Adaptive precoding scheme with efficient joint processing for downlink coordinated multi-point transmission system. Electronics Letters, 2015, 51, 2055-2057.	0.5	3
63	Adaptive Channel Coding Based on Channel Condition in Cooperative Communication System. Wireless Personal Communications, 2016, 88, 701-710.	1.8	3
64	Adaptive Femtocell Design Scheme in Mobile Communication Systems. Wireless Personal Communications, 2017, 97, 811-820.	1.8	3
65	An Efficient Frequency Offset Estimation Scheme for Band Segment Transmission OFDM Systems. IEEE Access, 2018, 6, 47075-47081.	2.6	3
66	Low-Complexity and Robust Symbol Timing Synchronization Scheme for MIMO DVB-T2 Systems. IEEE Access, 2018, 6, 43384-43391.	2.6	3
67	Linear Approximation Signal Detection Scheme in MIMO-OFDM Systems. Applied Sciences (Switzerland), 2018, 8, 49.	1.3	3
68	Efficient relay selection scheme utilizing superposition modulation in cooperative communication. Annales Des Telecommunications/Annals of Telecommunications, 2019, 74, 681-686.	1.6	3
69	Blind Weighted Least-Squares Frequency Offset Estimation Method for LTE Machine-Type Communications. IEEE Internet of Things Journal, 2019, 6, 9806-9815.	5.5	3
70	Dual-Hop Transmission Scheme Based on Hierarchical Modulation in Wireless Networks. IEICE Transactions on Communications, 2010, E93-B, 1645-1648.	0.4	3
71	Adaptive DF Relaying Scheme Based on CDD for Multi-Hop Networks with Multiple Relay Terminals. IEICE Transactions on Communications, 2011, E94-B, 1085-1088.	0.4	3
72	Dual-Hop Cooperative Transmission for Orthogonal Frequency and Code Division Multiple Access. IEICE Transactions on Communications, 2012, E95.B, 2995-2998.	0.4	3

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73	Performance Improvement Technique with Cooperative Relay in Cellular System. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2015, E98.A, 1339-1342.	0.2	3
74	Improved Detection Scheme Based on Lattice-Reduction and Threshold Algorithm in MIMO-OFDM Systems. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2015, E98.A, 1343-1345.	0.2	3
75	An Efficient Strategy for Relay Selection in Wireless Communication. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2015, E98.A, 740-744.	0.2	3
76	Analysis of a Stochastic Inventory Model on Random Environment with Two Classes of Suppliers and Impulse Customers. Mathematics, 2022, 10, 2235.	1.1	3
77	Mutual Amplify-and-Forward Cooperation Using Modified STBC in OFDMA System. IEICE Transactions on Communications, 2010, E93-B, 1330-1333.	0.4	2
78	Bandwidth-efficient space-time coded cooperation for resource-constrained networks. Wireless Communications and Mobile Computing, 2011, 11, 1358-1365.	0.8	2
79	An Advanced Cooperative Scheme in the Broadcasting and Cellular System. IEICE Transactions on Information and Systems, 2014, E97.D, 1634-1638.	0.4	2
80	Efficient Decoding Scheme for Cooperative Communication Using Hierarchical Modulation in the Mobile Communication Systems. Wireless Personal Communications, 2015, 82, 1789-1798.	1.8	2
81	Smart Cooperative System Using Orthogonal Signaling with Signal Space Diversity. Wireless Personal Communications, 2015, 83, 663-672.	1.8	2
82	A Combination of STBC and SM Scheme with Iterative Detection in LTE Systems. Wireless Personal Communications, 2015, 83, 1203-1211.	1.8	2
83	Cooperative diversity scheme using virtual MIMO antenna array in a LTE-A uplink system. Journal of Electromagnetic Waves and Applications, 2016, 30, 963-977.	1.0	2
84	Phase adjustment signaling based on packet structure for Wi-Fi backscatter system. Journal of Electromagnetic Waves and Applications, 0, , 1-10.	1.0	2
85	Frame and carrier frequency synchronization algorithm for wireless body area network. International Journal of Communication Systems, 2017, 30, e2988.	1.6	2
86	Inter-Relay Interference Cancellation Using MIMO Detection. Wireless Personal Communications, 2018, 98, 1885-1894.	1.8	2
87	An Interference Cancellation Scheme for High Reliability Based on MIMO Systems. Applied Sciences (Switzerland), 2018, 8, 466.	1.3	2
88	Cooperative communication system with multiple relays for performance improvement in wireless communication system. Journal of Ambient Intelligence and Humanized Computing, 2019, 10, 3461-3467.	3.3	2
89	Effective Estimation of Integer Carrier Frequency Offset in LTE Downlink Systems With Symbol Timing Error. IEEE Access, 2019, 7, 33329-33337.	2.6	2
90	Beamformer Optimization for the Full-Duplex AF Relay Wiretap Channels. IEEE Wireless Communications Letters, 2019, 8, 129-132.	3.2	2

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91	Improved Joint Estimation of Set Information and Frequency Offset for LTE Device-to-Device Communications. Applied Sciences (Switzerland), 2020, 10, 77.	1.3	2
92	Sequential Detection of Cyclic Prefix Mode, Sidelink Synchronization Signal, and Frequency Offset for LTE Device-to-Device Networks. IEEE Transactions on Industrial Informatics, 2021, 17, 3982-3991.	7.2	2
93	Equalization-Based Beamforming for Secure Multicasting in Multicast Wiretap Channels. IEEE Access, 2021, 9, 33826-33835.	2.6	2
94	Deep Learning-Based Bootstrap Detection Scheme for Digital Broadcasting System. IEEE Access, 2021, 9, 19562-19571.	2.6	2
95	Optimal Multi-Antenna Transmission for the Cooperative Non-Orthogonal Multiple-Access System. Applied Sciences (Switzerland), 2021, 11, 2203.	1.3	2
96	Efficient Channel Feedback Scheme for Multi-User MIMO Hybrid Beamforming Systems. Sensors, 2021, 21, 5298.	2.1	2
97	An Improved Cooperative Transmission Scheme Using an Adjacent Base Station in Vehicular Communication System. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2014, E97.A, 2649-2652.	0.2	2
98	Balanced-Offset Joint Acquisition of Physical Cell Identity and Radio Frame Number for NB-IoT Communication Systems. IEEE Internet of Things Journal, 2022, 9, 8669-8680.	5.5	2
99	Efficient User-Serving Scheme in the User-Centric Cell-Free Massive MIMO System. Sensors, 2022, 22, 3794.	2.1	2
100	Daily and seasonal heat usage patterns analysis in heat networks. Scientific Reports, 2022, 12, .	1.6	2
101	Relaxed Observer-Based H ∞ -Control for Markov Jump Fuzzy Systems with Incomplete Transition Probabilities and Sensor Failures. Mathematics, 2022, 10, 2055.	1.1	2
102	Design and implementation of error control algorithms for Bluetooth system: open-loop and closed-loop algorithms. , 0, , .		1
103	Training sequence design and channel estimation of ofdm-cdma broadband wireless access networks with diversity techniques. IEEE Transactions on Broadcasting, 2003, 49, 354-361.	2.5	1
104	Frequency synchronization for digital audio broadcasting. IEEE Transactions on Consumer Electronics, 2003, 49, 290-295.	3.0	1
105	Reliability improvement techniques for home RF system. IEEE Transactions on Consumer Electronics, 2003, 49, 321-327.	3.0	1
106	Ubiquitous home networking based on ultra wide bandwidth communication systems. , 0, , .		1
107	Techniques improving the transmission reliability in high-rate wireless LANs. IEEE Transactions on Consumer Electronics, 2004, 50, 64-72.	3.0	1
108	Relay ordering in multi-branch multi-hop cooperative diversity networks. , 2008, , .		1

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109	Design of MIMO-OFDM multi-hop relaying with cooperative base station. IEICE Electronics Express, 2010, 7, 874-879.	0.3	1
110	Improved transmission scheme for reliable communication in cell boundary. Electronics Letters, 2014, 50, 1984-1986.	0.5	1
111	An Improved Cooperative Technique Sharing the Channel in OFDMA-Based System. IEICE Transactions on Information and Systems, 2014, E97.D, 3222-3225.	0.4	1
112	Hybrid MIMO Cooperative Scheme for Improved Throughput in Wireless OFDM Systems. Wireless Personal Communications, 2015, 83, 1945-1953.	1.8	1
113	Adaptive MIMO Detection Scheme Using Post SNR in Wireless Communication Systems. Wireless Personal Communications, 2015, 84, 2561-2570.	1.8	1
114	A Proposed H-STCDD Scheme in Cooperative Communication System. Wireless Personal Communications, 2016, 88, 1015-1025.	1.8	1
115	Adaptive encoding scheme providing optimal performance for Internet of Things industry in the backscatter system. International Journal of Distributed Sensor Networks, 2017, 13, 155014771769362.	1.3	1
116	A Multi-relay Cooperative Communication Using Space Time Spatial Phase Coding Based on OFDM. Wireless Personal Communications, 2017, 96, 3127-3137.	1.8	1
117	A Channel Estimation and Data Transmission Scheme Utilizing Superposition Modulation for Cooperative Communication. Wireless Personal Communications, 2018, 98, 1521-1530.	1.8	1
118	Secrecy Rate Maximizing Beamforming Schemes for the DF Relay Wiretap Channels. IEEE Access, 2018, 6, 77841-77848.	2.6	1
119	An Enhanced Transceiver Structure for Higher Performances in MIMO-OFDM Systems. IEEE Access, 2018, 6, 53748-53756.	2.6	1
120	Cooperative communication system for high performance using ambient signals. Wireless Networks, 2019, 25, 2285-2290.	2.0	1
121	Partial Nulling Regularized Block Diagonalization Using Unfair Channel Selection for Post-Coding with Low-Complexity. Applied Sciences (Switzerland), 2020, 10, 6809.	1.3	1
122	Effective Joint Detection of Synchronization Signal, Duplex Mode, and Frequency Offset for LTE Machine-Type Communications. IEEE Internet of Things Journal, 2020, 7, 10922-10931.	5.5	1
123	An Efficient Estimation of the Number of Optimal Iterations for GS Pre-coding in Downlink Massive MIMO Systems. Applied Sciences (Switzerland), 2020, 10, 8735.	1.3	1
124	Selectively Iterative Detection Scheme Based on the Residual Power in MIMO-OFDM. IEICE Transactions on Communications, 2018, E101.B, 2445-2452.	0.4	1
125	Low Power Consumption Signal Detector Based on Adaptive DFSD in MIMO-OFDM Systems. Energies, 2019, 12, 599.	1.6	1
126	Adaptive timing synchronization scheme for a short-ranged Bluetooth network. , 0, , .		0

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127	Adaptive timing synchronization schemes for a short-ranged Bluetooth system. IEEE Transactions on Consumer Electronics, 2000, 46, 690-696.	3.0	0
128	Design and implementation of a computationally efficient TEQ for DMT-based xDSL modem. , 0, , .		0
129	Performance of simple timing synchronization and DC-offset compensation schemes for a short-ranged Bluetooth network. , 0, , .		0
130	Cooperative Relaying Scheme for Orthogonal Frequency and Code Division Multiple Access Uplink System. Wireless Personal Communications, 2013, 70, 239-251.	1.8	0
131	Computationally effective sampling frequency offset estimation for OFDM based LTE downlink systems. Transactions on Emerging Telecommunications Technologies, 2017, 28, e2903.	2.6	0
132	An Improved Dual-Hop Transmission Method for High Reliability in Wireless Communication Networks. Wireless Personal Communications, 2017, 97, 5941-5950.	1.8	0
133	Variable Modulation Scheme for Improved Reliability in the OFDM Systems. Wireless Personal Communications, 2017, 97, 603-611.	1.8	0
134	An Improved Wireless Transmission Scheme in the Edge of Cell Coverage. Wireless Personal Communications, 2017, 97, 675-682.	1.8	0
135	Cooperative Transmission Scheme Using the Single Antenna in the Broadcasting and Cellular System. Wireless Personal Communications, 2017, 95, 4049-4061.	1.8	0
136	Advanced half-duplex cooperative scheme for immersive signage transmission. , 2017, , .		0
137	The internet of signage communication for reliability improvement in the OFDM system. , 2017, , .		0
138	Inter Cell Interference Mitigation Using Adaptive CoMP with SPC in Digital Signage Network. , 2018, , .		0
139	MU-MIMO Relaying Scheme for Improvement Reliability in Wireless Communication System. , 2018, , .		0
140	Adaptive Deactivation of Subcarriers for OFDM based Cognitive Radio. , 2018, , .		0
141	Improving Energy Efficiency of Hybrid Beamforming System. IOP Conference Series: Materials Science and Engineering, 2019, 630, 012008.	0.3	0
142	Adaptive Relay Selection Scheme by Using Compound Channel. Applied Sciences (Switzerland), 2020, 10, 5614.	1.3	0
143	A Robust Joint Cell Identification and Frequency Recovery Scheme for LTE Machine-Type Communications. IEEE Transactions on Industrial Informatics, 2020, 16, 6433-6443.	7.2	0
144	Group-Wise Sidelink Synchronization Signal and Carrier Frequency Offset Detection Method for D2D-Based NR-V2X Systems. IEEE Internet of Things Journal, 2022, 9, 2973-2983.	5.5	0

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145	Mode and Frame Detection Algorithm for DAB OFDM Receiver. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2015, E98.A, 1995-1997.	0.2	0