Naofal Al-Dhahir

List of Publications by Year
in descending order

141 papers	4,569 citations	159585 30 h-index	106344 65 g-index
141 all docs	141 docs citations	141 times ranked	3075 citing authors

#	Article	IF	Citations
1	The Multimodal Driver Monitoring Database: A Naturalistic Corpus to Study Driver Attention. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 10736-10752.	8.0	8
2	Covert Communication in Intelligent Reflecting Surface-Assisted NOMA Systems: Design, Analysis, and Optimization. IEEE Transactions on Wireless Communications, 2022, 21, 1735-1750.	9.2	79
3	Resource Allocation for IRS-Assisted Wireless-Powered FDMA IoT Networks. IEEE Internet of Things Journal, 2022, 9, 8774-8785.	8.7	24
4	Reconfigurable Intelligent Surface Aided Non-Orthogonal Unicast-Multicast Secure Transmission. IEEE Wireless Communications Letters, 2022, 11, 578-582.	5.0	1
5	A Unified Framework for Differentiated Services in Intelligent Healthcare Systems. IEEE Transactions on Network Science and Engineering, 2022, 9, 622-633.	6.4	2
6	Proactive Eavesdropping via Opportunistic Energy Transfer and Jamming for Wireless-Powered Suspicious Communication. IEEE Transactions on Green Communications and Networking, 2022, 6, 1055-1068.	5.5	2
7	Proactive Eavesdropping via Jamming Over Multiple Suspicious Links With Wireless-Powered Monitor. IEEE Signal Processing Letters, 2022, 29, 354-358.	3.6	3
8	Weighted Sum Rate Optimization for STAR-RIS-Assisted MIMO System. IEEE Transactions on Vehicular Technology, 2022, 71, 2122-2127.	6.3	38
9	Evolution of NOMA Toward Next Generation Multiple Access (NGMA) for 6G. IEEE Journal on Selected Areas in Communications, 2022, 40, 1037-1071.	14.0	168
10	Intelligent Reflecting Surface-Assisted Proactive Eavesdropping Over Suspicious Broadcasting Communication With Statistical CSI. IEEE Transactions on Vehicular Technology, 2022, 71, 4483-4488.	6.3	13
11	Proactive Eavesdropping With Jamming Power Allocation in Training-Based Suspicious Communications. IEEE Signal Processing Letters, 2022, 29, 667-671.	3.6	2
12	Hierarchical Multi-Agent DRL-Based Framework for Joint Multi-RAT Assignment and Dynamic Resource Allocation in Next-Generation HetNets. IEEE Transactions on Network Science and Engineering, 2022, 9, 2481-2494.	6.4	9
13	Reduced-Complexity Decimeter-Level Bluetooth Ranging in Multipath Environments. IEEE Access, 2022, 10, 38335-38350.	4.2	4
14	Securing Full-Duplex Amplify-and-Forward Relay-Aided Communications Through Processing-Time Optimization. IEEE Transactions on Vehicular Technology, 2022, 71, 6790-6794.	6.3	1
15	Proactive Eavesdropping via Jamming in UAV-Enabled Relaying Systems With Statistical CSI. IEEE Signal Processing Letters, 2022, 29, 1267-1271.	3.6	3
16	Achieving Covertness and Security in Broadcast Channels With Finite Blocklength. IEEE Transactions on Wireless Communications, 2022, 21, 7624-7640.	9.2	20
17	Cooperative Hybrid Nonorthogonal Multiple Access-Based Mobile-Edge Computing in Cognitive Radio Networks. IEEE Transactions on Cognitive Communications and Networking, 2022, 8, 1104-1117.	7.9	29
18	Achieving Covert Wireless Communication With a Multi-Antenna Relay. IEEE Transactions on Information Forensics and Security, 2022, 17, 760-773.	6.9	16

#	Article	IF	Citations
19	Special Issue on Next Generation Multiple Access—Part I. IEEE Journal on Selected Areas in Communications, 2022, 40, 1031-1036.	14.0	1
20	Guest Editorial Special Issue on Next Generation Multiple Access—Part II. IEEE Journal on Selected Areas in Communications, 2022, 40, 1387-1391.	14.0	1
21	A State-of-the-Art Survey on Reconfigurable Intelligent Surface-Assisted Non-Orthogonal Multiple Access Networks. Proceedings of the IEEE, 2022, 110, 1358-1379.	21.3	55
22	DRL-Based Joint RAT Association, Power and Bandwidth Optimization for Future HetNets. IEEE Wireless Communications Letters, 2022, 11, 1503-1507.	5.0	2
23	Secure Beamforming for Cognitive Satellite Terrestrial Networks With Unknown Eavesdroppers. IEEE Systems Journal, 2021, 15, 2186-2189.	4.6	79
24	Achieving Channel Capacity of Visible Light Communication. IEEE Systems Journal, 2021, 15, 1652-1663.	4.6	11
25	Secure and Energy Efficient Transmission for RSMA-Based Cognitive Satellite-Terrestrial Networks. IEEE Wireless Communications Letters, 2021, 10, 251-255.	5.0	137
26	Intelligent Reflecting Surface Aided Multiple Access Over Fading Channels. IEEE Transactions on Communications, 2021, 69, 2015-2027.	7.8	48
27	Reconfigurable Intelligent Surfaces: Principles and Opportunities. IEEE Communications Surveys and Tutorials, 2021, 23, 1546-1577.	39.4	520
28	Reconfigurable Intelligent Surface Assisted Cooperative Non-Orthogonal Multiple Access Systems. IEEE Transactions on Communications, 2021, 69, 6750-6764.	7.8	16
29	Robust Beamforming Design for Covert Communications. IEEE Transactions on Information Forensics and Security, 2021, 16, 3026-3038.	6.9	20
30	Machine Learning for User Partitioning and Phase Shifters Design in RIS-Aided NOMA Networks. IEEE Transactions on Communications, 2021, 69, 7414-7428.	7.8	33
31	Massive Access for 5G and Beyond. IEEE Journal on Selected Areas in Communications, 2021, 39, 615-637.	14.0	347
32	Secure Two-Way Communications via Intelligent Reflecting Surfaces. IEEE Communications Letters, 2021, 25, 744-748.	4.1	30
33	Radar Target Detection via GAMP: A Sparse Recovery Strategy Off the Grid. IEEE Transactions on Vehicular Technology, 2021, 70, 4153-4165.	6.3	2
34	Capacity Characterization of Intelligent Reflecting Surface Assisted NOMA Systems. , 2021, , .		1
35	Capacity and Optimal Resource Allocation for IRS-Assisted Multi-User Communication Systems. IEEE Transactions on Communications, 2021, 69, 3771-3786.	7.8	69
36	Covert Surveillance via Proactive Eavesdropping Under Channel Uncertainty. IEEE Transactions on Communications, 2021, 69, 4024-4037.	7.8	18

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37	Intelligent Reflecting Surface Assisted Wireless Powered Sensor Networks for Internet of Things. IEEE Transactions on Communications, 2021, 69, 4877-4889.	7.8	63
38	Secure Non-Orthogonal Multiple Access: An Interference Engineering Perspective. IEEE Network, 2021, 35, 278-285.	6.9	31
39	Covert Transmission Assisted by Intelligent Reflecting Surface. IEEE Transactions on Communications, 2021, 69, 5394-5408.	7.8	46
40	Secrecy Performance of Full-Duplex Jamming and Reception Under I/Q Imbalance. IEEE Transactions on Vehicular Technology, 2021, 70, 9560-9565.	6.3	5
41	Secrecy-Energy Efficient Hybrid Beamforming for Satellite-Terrestrial Integrated Networks. IEEE Transactions on Communications, 2021, 69, 6345-6360.	7.8	133
42	Guest Editorial Special Issue on UAV Communications in 5G and Beyond Networksâ€"Part I. IEEE Journal on Selected Areas in Communications, 2021, 39, 2907-2911.	14.0	2
43	A Comprehensive Overview on 5G-and-Beyond Networks With UAVs: From Communications to Sensing and Intelligence. IEEE Journal on Selected Areas in Communications, 2021, 39, 2912-2945.	14.0	202
44	Intelligent Reflecting Surface-Aided Secure Broadcasting in Millimeter Wave Symbiotic Radio Networks. IEEE Transactions on Vehicular Technology, 2021, 70, 11050-11055.	6.3	17
45	Covert Wireless Communication With Spectrum Mask in Internet of Things Networks. IEEE Transactions on Communications, 2021, 69, 8402-8415.	7.8	5
46	Guest Editorial Special Issue on UAV Communications in 5G and Beyond Networksâ€"Part II. IEEE Journal on Selected Areas in Communications, 2021, 39, 3247-3251.	14.0	0
47	Achieving Covert Communication by IRS-NOMA. , 2021, , .		6
48	Time-Dependent Bit Error Rate Analysis for Smart Utility Networks in the Presence of WLAN Interferers. IEEE Systems Journal, 2020, 14, 2133-2143.	4.6	4
49	On the Design of NOMA Assisted Multi-Antenna Two-Way Relay Systems. , 2020, , .		3
50	Cache-Aided NOMA Mobile Edge Computing: A Reinforcement Learning Approach. IEEE Transactions on Wireless Communications, 2020, 19, 6899-6915.	9.2	65
51	Exploiting Intelligent Reflecting Surfaces in NOMA Networks: Joint Beamforming Optimization. IEEE Transactions on Wireless Communications, 2020, 19, 6884-6898.	9.2	251
52	Resource Allocation in Intelligent Reflecting Surface Assisted NOMA Systems. IEEE Transactions on Communications, 2020, 68, 7170-7183.	7.8	149
53	Robust Hybrid Beamforming for Satellite-Terrestrial Integrated Networks. , 2020, , .		4
54	Full-Duplex Amplify-and-Forward Relaying Under I/Q Imbalance. IEEE Transactions on Vehicular Technology, 2020, 69, 7966-7970.	6.3	9

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55	Artificial-Noise-Aided Energy-Efficient Secure Beamforming for Multi-Eavesdroppers in Cognitive Radio Networks. IEEE Systems Journal, 2020, 14, 3801-3812.	4.6	14
56	Power Splitting-Based SWIPT With Dual-Hop DF Relaying in the Presence of a Direct Link. IEEE Systems Journal, 2019, 13, 1316-1319.	4.6	45
57	Opportunistic Spectrum Sharing for D2D-Based URLLC. IEEE Transactions on Vehicular Technology, 2019, 68, 8995-9006.	6.3	14
58	Superior Selective Reporting-Based Spectrum Sensing in Energy Harvesting-Aided HCRNs. , 2019, , .		1
59	A Survey on Spatial Modulation in Emerging Wireless Systems: Research Progresses and Applications. IEEE Journal on Selected Areas in Communications, 2019, 37, 1949-1972.	14.0	291
60	Secure Alamouti Multiple Access Channel Transmissions: Multiuser Transmission and Multi-Antenna Eavesdroppers. IEEE Wireless Communications Letters, 2019, 8, 1510-1513.	5.0	7
61	On the Delay/Throughput-Security Tradeoff in Wiretap TDMA Networks With Buffered Nodes. IEEE Transactions on Wireless Communications, 2019, 18, 3948-3960.	9.2	8
62	Blind Identification of SFBC-OFDM Signals Based on the Central Limit Theorem. IEEE Transactions on Wireless Communications, 2019, 18, 3500-3514.	9.2	7
63	Secure Cooperative Communications With an Untrusted Relay: A NOMA-Inspired Jamming and Relaying Approach. IEEE Transactions on Information Forensics and Security, 2019, 14, 3191-3205.	6.9	71
64	Joint Frame Synchronization and Channel Estimation: Sparse Recovery Approach and USRP Implementation. IEEE Access, 2019, 7, 39041-39053.	4.2	7
65	Opportunistic Ambient Backscatter Communication in RF-Powered Cognitive Radio Networks. IEEE Transactions on Cognitive Communications and Networking, 2019, 5, 413-426.	7.9	56
66	Sensing-Throughput Tradeoff for Superior Selective Reporting-Based Spectrum Sensing in Energy Harvesting HCRNs. IEEE Transactions on Cognitive Communications and Networking, 2019, 5, 330-341.	7.9	8
67	Design of Secure NOMA Against Full-Duplex Proactive Eavesdropping. IEEE Wireless Communications Letters, 2019, 8, 1090-1094.	5.0	27
68	Secrecy Energy Efficient Beamforming for Satellite-Terrestrial Coordinated Communication Systems. , 2019, , .		1
69	Joint Blind Identification of the Number of Transmit Antennas and MIMO Schemes Using Gerschgorin Radii and FNN. IEEE Transactions on Wireless Communications, 2019, 18, 373-387.	9.2	14
70	Resource Allocation for Secure Wireless Powered Integrated Multicast and Unicast Services With Full Duplex Self-Energy Recycling. IEEE Transactions on Wireless Communications, 2019, 18, 620-636.	9.2	26
71	Multiple Relay Selection and Beamforming in Dual-Hop Amplify-and-Forward Relay Networks. IEEE Systems Journal, 2019, 13, 1534-1545.	4.6	9
72	Security-Enhanced SC-FDMA Transmissions Using Temporal Artificial-Noise and Secret Key Aided Schemes. IEEE Access, 2019, 7, 14807-14824.	4.2	4

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73	Sparse Equalizers for OFDM Signals With Insufficient Cyclic Prefix. IEEE Access, 2018, 6, 11076-11085.	4.2	3
74	Performance Analysis of Non-Orthogonal Multiple Access Under I/Q Imbalance. IEEE Access, 2018, 6, 18453-18468.	4.2	30
75	Secret-Key-Aided Scheme for Securing Untrusted DF Relaying Networks. IEEE Transactions on Vehicular Technology, 2018, 67, 6727-6731.	6.3	4
76	Transmit Power Optimization for a Hybrid PLC/VLC/RF Communication System. IEEE Transactions on Green Communications and Networking, 2018, 2, 234-245.	5.5	65
77	Secure Sum-Rate-Optimal MIMO Multicasting Over Medium-Voltage NB-PLC Networks. IEEE Transactions on Smart Grid, 2018, 9, 2954-2963.	9.0	9
78	Adaptive Transmission for Secure AN-Aided Cooperative Networks with RF-EH Untrusted Relaying using Outdated CSI. , 2018, , .		1
79	Energy Efficiency Analysis of Collaborative Compressive Sensing for Cognitive Radio Networks. , 2018, , .		2
80	Secure Beamforming in Full-Duplex SWIPT Systems with Loopback Self-Interference Cancellation. , 2018, , .		6
81	Blind Identification of SFBC-OFDM Signals Using Subspace Decompositions and Random Matrix Theory. IEEE Transactions on Vehicular Technology, 2018, 67, 9619-9630.	6.3	11
82	A Joint Unsupervised Learning and Genetic Algorithm Approach for Topology Control in Energy-Efficient Ultra-Dense Wireless Sensor Networks. IEEE Communications Letters, 2018, 22, 2370-2373.	4.1	49
83	Unsupervised Machine Learning-Based User Clustering in Millimeter-Wave-NOMA Systems. IEEE Transactions on Wireless Communications, 2018, 17, 7425-7440.	9.2	144
84	Maximum achievable throughput and interference mitigation for SUN in coexistence with WLAN. , 2018, , .		2
85	A Secret-Key-Aided Scheme to Secure Transmissions From Single-Antenna RF-EH Source Nodes. IEEE Wireless Communications Letters, 2018, 7, 238-241.	5.0	1
86	Sparsity-Based Joint NBI and Impulse Noise Mitigation in Hybrid PLC-Wireless Transmissions. IEEE Access, 2018, 6, 30280-30295.	4.2	12
87	On the Robustness of Spatial Modulation to I/Q Imbalance. IEEE Communications Letters, 2017, 21, 1485-1488.	4.1	10
88	Impact of the Wireless Network's PHY Security and Reliability on Demand-Side Management Cost in the Smart Grid. IEEE Access, 2017, 5, 5678-5689.	4.2	13
89	The Impact of Power Allocation on Cooperative Non-orthogonal Multiple Access Networks With SWIPT. IEEE Transactions on Wireless Communications, 2017, 16, 4332-4343.	9.2	208
90	In-Phase and Quadrature Timing Mismatch Estimation and Compensation in Millimeter-Wave Communication Systems. IEEE Transactions on Wireless Communications, 2017, 16, 4317-4331.	9.2	12

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91	A Secure Relay Selection AN-Aided Scheme for Dual-Hop DF Relay Networks With Two-Sided Eavesdropping. IEEE Wireless Communications Letters, 2017, 6, 474-477.	5.0	3
92	Secure Alamouti MAC Transmissions. IEEE Transactions on Wireless Communications, 2017, 16, 3674-3687.	9.2	12
93	Probabilistic Jamming/Eavesdropping Attacks to Confuse a Buffer-Aided Transmitterâ€"Receiver Pair. IEEE Communications Letters, 2017, 21, 1549-1552.	4.1	3
94	Error rate analysis of subcarrier QPSK With receiver I/Q imbalances over Gamma-Gamma fading channels. , 2017, , .		0
95	An Artificial-Noise-Aided Hybrid TS/PS Scheme for OFDM-Based SWIPT Systems. IEEE Communications Letters, 2017, 21, 632-635.	4.1	21
96	AN-Aided Relay-Selection Scheme for Securing Untrusted RF-EH Relay Systems. IEEE Transactions on Green Communications and Networking, 2017, 1, 481-493.	5.5	19
97	Efficient AN-Aided Scheme to Power RF-EH Source Nodes and Secure Their Transmissions. IEEE Wireless Communications Letters, 2017, 6, 670-673.	5.0	2
98	Adaptive Secure Transmission for RF-EH Untrusted Relaying with Alien Eavesdropping. IEEE Communications Letters, 2017, 21, 2516-2519.	4.1	14
99	Enhancing the reliability of two-way vehicle-to-grid communications. , 2017, , .		8
100	Security of an Ordered-Based Distributive Jamming Scheme. IEEE Communications Letters, 2017, 21, 72-75.	4.1	13
101	Energy Beamforming Design and User Cooperation for Wireless Powered Communication Networks. IEEE Wireless Communications Letters, 2017, 6, 750-753.	5.0	14
102	Artificial-Noise-Aided Secure MIMO Full-Duplex Relay Channels With Fixed-Power Transmissions. IEEE Communications Letters, 2016, 20, 1591-1594.	4.1	28
103	On the Impact of PLC Backhauling in Multi-User Hybrid VLC/RF Communication Systems. , 2016, , .		17
104	Cyclostationary Noise Modeling Based on Frequency-Shift Filtering in NB-PLC. , 2016, , .		9
105	Reduced-Feedback AN-Aided Secure Alamouti MAC Transmissions. , 2016, , .		0
106	Sparsifying dictionary analysis for FIR MIMO channel-shortening equalizers. , 2016, , .		1
107	Security of Rechargeable Energy-Harvesting Transmitters in Wireless Networks. IEEE Wireless Communications Letters, 2016, 5, 384-387.	5.0	31
108	Enhancing the PHY-Layer Security of MIMO Buffer-Aided Relay Networks. IEEE Wireless Communications Letters, 2016, 5, 400-403.	5.0	20

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109	Asymptotic Analysis and Tight Performance Bounds of Diversity Receptions Over Beckmann Fading Channels With Arbitrary Correlation. IEEE Transactions on Communications, 2016, 64, 2220-2234.	7.8	16
110	Sparsity-aware multiple relay selection in large dual-hop decode-and-forward broadband relay networks. , 2016, , .		6
111	Differential modulation diversity combining for hybrid narrowband-powerline/wireless smart grid communications. , 2016, , .		3
112	A frequency-shift-filtering approach to cyclostationary noise modeling in MIMO NB-PLC. , 2016, , .		6
113	Comparison of two channel shortening approaches for MIMO-ISI channels. , 2016, , .		1
114	Beamforming OFDM Performance Under Joint Phase Noise and I/Q Imbalance. IEEE Transactions on Vehicular Technology, 2016, 65, 2978-2989.	6.3	27
115	Secure Communications in the Presence of a Buffer-Aided Wireless-Powered Relay With Self-Energy Recycling. IEEE Wireless Communications Letters, 2016, 5, 32-35.	5.0	22
116	Efficient diversity technique for hybrid narrowband-powerline/wireless smart grid communications. , 2015, , .		14
117	Bounds on outage probabilities for diversity receptions over arbitrarily correlated Rician channels. , 2015, , .		3
118	A Secure Multiple-Access Scheme for Rechargeable Wireless Sensors in the Presence of an Eavesdropper. IEEE Communications Letters, 2015, 19, 945-948.	4.1	8
119	CFO mitigation using adaptive frequency-domain decision feedback equalization for uplink SC-FDMA. , 2015, , .		4
120	On quantized compressed sensing with saturated measurements via greedy pursuit. , 2015, , .		1
121	Asymptotically tight error rate bounds for diversity receptions over arbitrarily correlated Rician channels. , 2015, , .		2
122	Cooperative Access Schemes for Efficient SWIPT Transmissions in Cognitive Radio Networks. , 2015, , .		16
123	On the Achievable Rate of a Hybrid PLC/VLC/RF Communication System. , 2015, , .		16
124	On Secure Communications Over a Wiretap Channel With Fixed-Rate Transmission: Protocol Design and Queueing Analysis. IEEE Wireless Communications Letters, 2015, 4, 453-456.	5.0	7
125	Robust Weighted Sum-Rate Maximization for the Multi-Stream MIMO Interference Channel With Sparse Equalization. IEEE Transactions on Communications, 2015, 63, 3645-3659.	7.8	22
126	Asymptotic noisy reference losses of subcarrier BPSK and QPSK systems in lognormal fading. , 2015, , .		1

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127	Exploiting sparsity of relay-assisted cognitive radio networks. , 2015, , .		6
128	A Sparsity-Aware Cooperative Protocol for Cognitive Radio Networks With Energy-Harvesting Primary User. IEEE Transactions on Communications, 2015, 63, 3118-3131.	7.8	13
129	Narrowband-PLC/wireless diversity for smart grid communications. , 2014, , .		23
130	Adaptive equalisation using particle swarm optimisation for uplink SC–FDMA. Electronics Letters, 2014, 50, 469-471.	1.0	15
131	RLS-based frequency-domain DFE for uplink SC-FDMA. , 2014, , .		2
132	Complex QR Decomposition Using Fast Plane Rotations for MIMO Applications. IEEE Communications Letters, 2014, 18, 1743-1746.	4.1	12
133	Exact Average OFDM Subcarrier SINR Analysis Under Joint Transmit–Receive I/Q Imbalance. IEEE Transactions on Vehicular Technology, 2014, 63, 4125-4130.	6.3	30
134	Phase Noise in Asynchronous SC-FDMA Systems: Performance Analysis and Data-Aided Compensation. IEEE Transactions on Vehicular Technology, 2014, 63, 2642-2652.	6.3	14
135	On the Achievable Rate of a Hybrid PLC/VLC/RF Communication System. , 2014, , .		0
136	I/Q Imbalance in Multiple Beamforming {OFDM} Transceivers: SINR Analysis and Digital Baseband Compensation. IEEE Transactions on Communications, 2013, 61, 1914-1925.	7.8	32
137	Modelling and compensation of frequency-dependent I/Q imbalance in multiple beamforming OFDM transceivers. , 2012, , .		0
138	A threshold-based opportunistic MAC protocol for MIMO wireless sensor networks. , 2012, , .		0
139	Diversity Analysis of Symbol-by-Symbol Linear Equalizers. IEEE Transactions on Communications, 2011, 59, 2343-2348.	7.8	5
140	A distributed opportunistic access scheme and its application to OFDMA systems. IEEE Transactions on Communications, 2009, 57, 738-746.	7.8	27
141	On the performance comparison of VSF-OFCDMA and OFDMA. , 2008, , .		1