Soon Xin Ng

List of Publications by Citations

202 papers	2,523 citations	26 h-index	40 g-index
229 ext. papers	3,260 ext. citations	6.4 avg, IF	5.41 L-index

#	Paper	IF	Citations
202	On the MIMO channel capacity of multidimensional signal sets. *IEEE Transactions on Vehicular Technology*, **2006**, 55, 528-536	6.8	101
201	Quantum-Assisted Routing Optimization for Self-Organizing Networks. *IEEE Access*, **2014**, 2, 614-632	3.5	93
200	The Road From Classical to Quantum Codes: A Hashing Bound Approaching Design Procedure. *IEEE Access*, **2015**, 3, 146-176	3.5	91
199	Quantum Search Algorithms, Quantum Wireless, and a Low-Complexity Maximum Likelihood Iterative Quantum Multi-User Detector Design. *IEEE Access*, **2013**, 1, 94-122	3.5	86
198	Reduced-Complexity Coherent Versus Non-Coherent QAM-Aided Space-Time Shift Keying. *IEEE Transactions on Communications*, **2011**, 59, 3090-3101	6.9	78
197	Cooperative Overlay Spectrum Access in Cognitive Radio Networks. *IEEE Communications Surveys and Tutorials*, **2017**, 19, 1924-1944	37.1	65
196	Efficient Computation of EXIT Functions for Nonbinary Iterative Decoding. *IEEE Transactions on Communications*, **2006**, 54, 2133-2136	6.9	56
195	Satellite-Based Continuous-Variable Quantum Communications: State-of-the-Art and a Predictive Outlook. *IEEE Communications Surveys and Tutorials*, **2019**, 21, 881-919	37.1	53
194	Low-Complexity Soft-Output Quantum-Assisted Multiuser Detection for Direct-Sequence Spreading and Slow Subcarrier-Hopping Aided SDMA-OFDM Systems. *IEEE Access*, **2014**, 2, 451-472	3.5	52
193	Spatial Modulation and Space-Time Shift Keying: Optimal Performance at a Reduced Detection Complexity. *IEEE Transactions on Communications*, **2013**, 61, 206-216	6.9	52
192	Two Decades of MIMO Design Tradeoffs and Reduced-Complexity MIMO Detection in Near-Capacity Systems. *IEEE Access*, **2017**, 5, 18564-18632	3.5	47
191	. *IEEE Access*, **2015**, 3, 569-598	3.5	47
190	Quantum Search Algorithms for Wireless Communications. *IEEE Communications Surveys and Tutorials*, **2019**, 21, 1209-1242	37.1	45
189	Fifteen Years of Quantum LDPC Coding and Improved Decoding Strategies. *IEEE Access*, **2015**, 3, 2492-2519	3.5	40
188	. *IEEE Transactions on Communications*, **2014**, 62, 522-535	6.9	35
187	. *IEEE Transactions on Vehicular Technology*, **2015**, 64, 866-875	6.8	34
186	Non-Dominated Quantum Iterative Routing Optimization for Wireless Multihop Networks. *IEEE Access*, **2015**, 3, 1704-1728	3.5	32

185	Fixed-Complexity Quantum-Assisted Multi-User Detection for CDMA and SDMA. *IEEE Transactions on Communications*, **2014**, 62, 990-1000	6.9	30
184	Iterative Quantum-Assisted Multi-User Detection for Multi-Carrier Interleave Division Multiple Access Systems. *IEEE Transactions on Communications*, **2015**, 63, 3713-3727	6.9	28
183	Reduced-Complexity Noncoherently Detected Differential Space-Time Shift Keying. *IEEE Signal Processing Letters*, **2011**, 18, 153-156	3.2	28
182	Near-capacity turbo trellis coded modulation design based on EXIT charts and union bounds - [transactions papers]. *IEEE Transactions on Communications*, **2008**, 56, 2030-2039	6.9	28
181	Quantitative analysis of partial acylglycerols and free fatty acids in palm oil by 13C nuclear magnetic resonance spectroscopy. *JAOCS, Journal of the American Oil Chemistsr Society*, **2000**, 77, 749-755	1.8	28
180	Duality of Quantum and Classical Error Correction Codes: Design Principles and Examples. *IEEE Communications Surveys and Tutorials*, **2019**, 21, 970-1010	37.1	28
179	Iterative Near-Maximum-Likelihood Detection in Rank-Deficient Downlink SDMA Systems. *IEEE Transactions on Vehicular Technology*, **2008**, 57, 653-657	6.8	27
178	On the Performance and Complexity of Irregular Variable Length Codes for Near-Capacity Joint Source and Channel Coding. *IEEE Transactions on Wireless Communications*, **2008**, 7, 1338-1347	9.6	27
177	Hybrid iterative multiuser detection for channel coded space division multiple access OFDM systems. *IEEE Transactions on Vehicular Technology*, **2006**, 55, 115-127	6.8	27
176	Design and Security Analysis of Quantum Key Distribution Protocol Over Free-Space Optics Using Dual-Threshold Direct-Detection Receiver. *IEEE Access*, **2018**, 6, 4159-4175	3.5	26
175	Energy, Delay, and Outage Analysis of a Buffer-Aided Three-Node Network Relying on Opportunistic Routing. *IEEE Transactions on Communications*, **2015**, 63, 667-682	6.9	26
174	Reduced-Complexity Iterative-Detection-Aided Generalized Space-Time Shift Keying. *IEEE Transactions on Vehicular Technology*, **2012**, 61, 3656-3664	6.8	25
173	Cross-Layer Aided Energy-Efficient Routing Design for Ad Hoc Networks. *IEEE Communications Surveys and Tutorials*, **2015**, 17, 1214-1238	37.1	23
172	Soft-Decision Star-QAM Aided BICM-ID. *IEEE Signal Processing Letters*, **2011**, 18, 169-172	3.2	23
171	Maximum-Throughput Irregular Distributed Space-Time Code for Near-Capacity Cooperative Communications. *IEEE Transactions on Vehicular Technology*, **2010**, 59, 1511-1517	6.8	23
170	EXIT-Chart Aided Quantum Code Design Improves the Normalised Throughput of Realistic Quantum Devices. *IEEE Access*, **2016**, 4, 10194-10209	3.5	22
169	Towards the Quantum Internet: Generalised Quantum Network Coding for Large-Scale Quantum Communication Networks. *IEEE Access*, **2017**, 5, 17288-17308	3.5	21
168	Quantum-Aided Multi-User Transmission in Non-Orthogonal Multiple Access Systems. *IEEE Access*, **2016**, 4, 7402-7424	3.5	18

167	Reduced-complexity noncoherently detected Differential Space-Time Shift Keying **2011**,		18
166	Iteratively Decoded Variable Length Space-Time Coded Modulation: Code Construction and Convergence Analysis. *IEEE Transactions on Wireless Communications*, **2007**, 6, 1953-1963	9.6	18
165	Near-Capacity Wireless System Design Principles. *IEEE Communications Surveys and Tutorials*, **2015**, 17, 1806-1833	37.1	17
164	Single-Photon-Memory Two-Step Quantum Secure Direct Communication Relying on Einstein-Podolsky-Rosen Pairs. *IEEE Access*, **2020**, 8, 121146-121161	3.5	17
163	Demonstrating the practical challenges of wireless communications using USRP **2014**, 52, 194-201		17
162	Near-Capacity Code Design for Entanglement-Assisted Classical Communication over Quantum Depolarizing Channels. *IEEE Transactions on Communications*, **2013**, 61, 4801-4807	6.9	17
161	Near-Capacity Cooperative Space-Time Coding Employing Irregular Design and Successive Relaying. *IEEE Transactions on Communications*, **2010**, 58, 2232-2241	6.9	17
160	Polar Codes and Their Quantum-Domain Counterparts. *IEEE Communications Surveys and Tutorials*, **2020**, 22, 123-155	37.1	17
159	The importance of Au?(aryl) interactions in the formation of spherical aggregates in binuclear phosphane gold(I) complexes of a bipodal thiocarbamate dianion: a combined crystallographic and computational study, and anti-microbial activity. *RSC Advances*, **2015**, 5, 41401-41411	3.7	16
158	Quantum-Assisted Indoor Localization for Uplink mm-Wave and Downlink Visible Light Communication Systems. *IEEE Access*, **2017**, 5, 23327-23351	3.5	16
157	Reduced-Complexity Approx-Log-MAP and Max-Log-MAP Soft PSK/QAM Detection Algorithms. *IEEE Transactions on Communications*, **2013**, 61, 1415-1425	6.9	16
156	Reduced-Complexity Soft-Decision Aided Space-Time Shift Keying. *IEEE Signal Processing Letters*, **2011**, 18, 547-550	3.2	16
155	Detection ofcis-vaccenic acid in palm oil by13C NMR spectroscopy. *Lipids*, **1988**, 23, 140-143	1.6	16
154	Pragmatic Distributed Algorithm for Spectral Access in Cooperative Cognitive Radio Networks. *IEEE Transactions on Communications*, **2014**, 62, 1188-1200	6.9	15
153	Reduced-complexity near-capacity downlink iteratively decoded generalized multi-layer space-time coding using irregular convolutional codes. *IEEE Transactions on Wireless Communications*, **2010**, 9, 684-695	9.6	15
152	Multiple-Symbol Differential Sphere Detection Aided Differential Space-Time Block Codes Using QAM Constellations. *IEEE Signal Processing Letters*, **2011**, 18, 497-500	3.2	15
151	Quantum Topological Error Correction Codes: The Classical-to-Quantum Isomorphism Perspective. *IEEE Access*, **2018**, 6, 13729-13757	3.5	14
150	Unary-Coded Dimming Control Improves ON-OFF Keying Visible Light Communication. *IEEE Transactions on Communications*, **2018**, 66, 255-264	6.9	14

149	. *IEEE Access*, **2019**, 7, 52712-52730	3.5	14
148	Multiple-Symbol Joint Signal Processing for Differentially Encoded Single- and Multi-Carrier Communications: Principles, Designs and Applications. *IEEE Communications Surveys and Tutorials*, **2014**, 16, 689-712	37.1	14
147	Burst-by-burst adaptive decision feedback equalized TCM, TTCM, and BICM for H.263-assisted wireless video telephony. *IEEE Transactions on Circuits and Systems for Video Technology*, **2006**, 16, 363-374	6.4	14
146	Hybrid Precoding for WideBand Millimeter Wave MIMO Systems in the Face of Beam Squint. *IEEE Transactions on Wireless Communications*, **2021**, 20, 1847-1860	9.6	14
145	. *IEEE Transactions on Vehicular Technology*, **2016**, 65, 2154-2169	6.8	13
144	. *IEEE Transactions on Vehicular Technology*, **2013**, 62, 2633-2643	6.8	13
143	Performance Bounds of Network Coding Aided Cooperative Multiuser Systems. *IEEE Signal Processing Letters*, **2011**, 18, 435-438	3.2	13
142	Network Coding Aided Cooperative Quantum Key Distribution Over Free-Space Optical Channels. *IEEE Access*, **2017**, 5, 12301-12317	3.5	12
141	Quantum Coding Bounds and a Closed-Form Approximation of the Minimum Distance Versus Quantum Coding Rate. *IEEE Access*, **2017**, 5, 11557-11581	3.5	12
140	A Quantum-Search-Aided Dynamic Programming Framework for Pareto Optimal Routing in Wireless Multihop Networks. *IEEE Transactions on Communications*, **2018**, 66, 3485-3500	6.9	12
139	Construction of Quantum LDPC Codes From Classical Row-Circulant QC-LDPCs. *IEEE Communications Letters*, **2016**, 20, 9-12	3.8	12
138	. *IEEE Transactions on Vehicular Technology*, **2016**, 65, 1314-1325	6.8	12
137	Five Decades of Hierarchical Modulation and Its Benefits in Relay-Aided Networking. *IEEE Access*, **2015**, 3, 2891-2921	3.5	12
136	Turbo Detection of Precoded Sphere Packing Modulation Using Four Transmit Antennas for Differential Space-Time Spreading. *IEEE Transactions on Wireless Communications*, **2008**, 7, 943-952	9.6	12
135	Quantum Error Correction Protects Quantum Search Algorithms Against Decoherence. *Scientific Reports*, **2016**, 6, 38095	4.9	12
134	Quantum-Assisted Joint Multi-Objective Routing and Load Balancing for Socially-Aware Networks. *IEEE Access*, **2016**, 4, 9993-10028	3.5	11
133	Distributed Source Coding and Its Applications in Relaying-Based Transmission. *IEEE Access*, **2016**, 4, 1940-1970	3.5	11
132	Irregular Convolution and Unity-Rate Coded Network-Coding for Cooperative Multi-User Communications. *IEEE Transactions on Wireless Communications*, **2013**, 12, 1231-1243	9.6	11

131	Unity-Rate Codes Maximize the Normalized Throughput of ONOFF Keying Visible Light Communication. *IEEE Photonics Technology Letters*, **2017**, 29, 291-294	2.2	11
130	Quasi-Synchronous Cooperative Networks: A Practical Cooperative Transmission Protocol. *IEEE Vehicular Technology Magazine*, **2012**, 7, 66-76	9.9	11
129	Joint Iterative Decoding of Trellis-Based VQ and TCM. *IEEE Transactions on Wireless Communications*, **2007**, 6, 1327-1336	9.6	11
128	The Evolution of Quantum Key Distribution Networks: On the Road to the Qinternet. *IEEE Communications Surveys and Tutorials*, **2022**, 1-1	37.1	11
127	. *IEEE Transactions on Communications*, **2015**, 63, 1136-1148	6.9	10
126	Joint-Alphabet Space Time Shift Keying in mm-Wave Non-Orthogonal Multiple Access. *IEEE Access*, **2018**, 6, 22602-22621	3.5	10
125	Joint Quantum-Assisted Channel Estimation and Data Detection. *IEEE Access*, **2016**, 4, 7658-7681	3.5	10
124	Simultaneous two-way classical communication and measurement-device-independent quantum key distribution with coherent states. *Physical Review A*, **2020**, 101,	2.6	9
123	Fuzzy Logic Aided Dynamic Source Routing in Cross-Layer Operation Assisted Ad Hoc Networks **2010**,		9
122	On the Union Bounds of Self-Concatenated Convolutional Codes. *IEEE Signal Processing Letters*, **2009**, 16, 754-757	3.2	9
121	Distributed Self-Concatenated Coding for Cooperative Communication. *IEEE Transactions on Vehicular Technology*, **2010**, 59, 3097-3104	6.8	9
120	Near-Capacity Iteratively Decoded Binary Self-Concatenated Code Design Using EXIT Charts **2008**,		9
119	Coded modulation assisted radial basis function aided turbo equalization for dispersive Rayleigh-fading channels. *IEEE Transactions on Wireless Communications*, **2004**, 3, 2198-2206	9.6	9
118	Space-time IQ-interleaved TCM and TTCM for AWGN and Rayleigh fading channels. *Electronics Letters*, **2002**, 38, 1553	1.1	9
117	Unary Coding Controlled Simultaneous Wireless Information and Power Transfer. *IEEE Transactions on Wireless Communications*, **2020**, 19, 637-649	9.6	9
116	. *IEEE Transactions on Vehicular Technology*, **2016**, 65, 8345-8360	6.8	9
115	Near-Capacity Multilayered Code Design for LACO-OFDM-Aided Optical Wireless Systems. *IEEE Transactions on Vehicular Technology*, **2019**, 68, 4051-4054	6.8	8
114	Reduced-Complexity Soft-Decision Multiple-Symbol Differential Sphere Detection. *IEEE Transactions on Communications*, **2015**, 63, 3275-3289	6.9	8

113	Quantum Topological Error Correction Codes are Capable of Improving the Performance of Clifford Gates. *IEEE Access*, **2019**, 7, 121501-121529	3.5	8
112	Quantum Search-Aided Multi-User Detection of IDMA-Assisted Multi-Layered Video Streaming. *IEEE Access*, **2017**, 5, 23233-23255	3.5	8
111	Low-complexity iterative quantum multi-user detection in SDMA systems **2014**,		8
110	Joint source-coding, channel-coding and modulation schemes for AWGN and Rayleigh fading channels. *Electronics Letters*, **2003**, 39, 1259	1.1	8
109	A Network-Coding Aided Road-Map of Large-Scale Near-Capacity Cooperative Communications. *IEEE Access*, **2018**, 6, 21592-21620	3.5	7
108	TTCM-Aided Rate-Adaptive Distributed Source Coding for Rayleigh Fading Channels. *IEEE Transactions on Vehicular Technology*, **2014**, 63, 1126-1134	6.8	7
107	Non-Coherent Near-Capacity Network Coding for Cooperative Multi-User Communications. *IEEE Transactions on Communications*, **2012**, 60, 3059-3070	6.9	7
106	Code-Rate-Optimized Differentially Modulated Near-Capacity Cooperation. *IEEE Transactions on Communications*, **2011**, 59, 2185-2195	6.9	7
105	Near-Capacity Irregular Convolutional Coded Cooperative Differential Linear Dispersion Codes Using Multiple-Symbol Differential Detection. *IEEE Signal Processing Letters*, **2011**, 18, 173-176	3.2	7
104	Iterative AMR-WB Source and Channel Decoding Using Differential Space–Time Spreading-Assisted Sphere-Packing Modulation. *IEEE Transactions on Vehicular Technology*, **2009**, 58, 484-490	6.8	7
103	Modulation-mode assignment for SVD-aided and BICM-assisted spatial division multiplexing. *Physical Communication*, **2008**, 1, 60-66	2.2	7
102	Iterative Decoding and Soft Interference Cancellation in Fast Frequency Hopping Multiuser System Using Clipped Combining **2007**,		7
101	Soft-Decision Multiple-Symbol Differential Sphere Detection and Decision-Feedback Differential Detection for Differential QAM Dispensing with Channel Estimation in the Face of Rapidly Fading Channels. *IEEE Transactions on Wireless Communications*, **2016**, 15, 4408-4425	9.6	7
100	Guest Editorial Advances in Quantum Communications, Computing, Cryptography, and Sensing. *IEEE Journal on Selected Areas in Communications*, **2020**, 38, 405-412	14.2	6
99	Distributed Joint Source Coding and Trellis Coded Modulation for Symbol-Based Markov Sources. *IEEE Transactions on Vehicular Technology*, **2018**, 67, 4031-4041	6.8	6
98	Distributed Soft Coding with a Soft Input Soft Output (SISO) Relay Encoder in Parallel Relay Channels. *IEEE Transactions on Communications*, **2013**, 61, 3660-3672	6.9	6
97	Reduced-Complexity Syndrome-Based TTCM Decoding. *IEEE Communications Letters*, **2013**, 17, 1220-1223	3.8	6
96	Relay-Induced Error Propagation Reduction for Decode-and-Forward Cooperative Communications **2010**,		6

95	Near-capacity iterative decoding of binary self-concatenated codes using soft decision demapping and 3-D EXIT charts. *IEEE Transactions on Wireless Communications*, **2010**, 9, 1608-1616	9.6	6
94	Near-Capacity Three-Stage Downlink Iteratively Decoded Generalized Layered Space-Time Coding with Low Complexity **2008**,		6
93	Determination of iodine value of palm and palmkernel oil by carbon-13 nuclear magnetic resonance spectroscopy. *European Journal of Lipid Science and Technology*, **2001**, 103, 223-227	3	6
92	Mitigation of Decoherence-Induced Quantum-Bit Errors and Quantum-Gate Errors Using Steane Code. *IEEE Access*, **2020**, 8, 83693-83709	3.5	6
91	Performance of Free-Space QKD Systems Using SIM/BPSK and Dual-Threshold/Direct-Detection **2016**,		6
90	Physical layer security: Friendly jamming in an untrusted relay scenario **2016**,		6
89	Quantum-Aided Multi-Objective Routing Optimization Using Back-Tracing-Aided Dynamic Programming. *IEEE Transactions on Vehicular Technology*, **2018**, 67, 7856-7860	6.8	5
88	Serially Concatenated Unity-Rate Codes Improve Quantum Codes Without Coding-Rate Reduction. *IEEE Communications Letters*, **2016**, 20, 1916-1919	3.8	5
87	Cooperative communication between cognitive and primary users. *IET Communications*, **2013**, 7, 1982-1992	1.3	5
86	Distributed Source-Coding, Channel-Coding and Modulation for Cooperative Communications **2010** ,		5
85	To Cooperate or Not: A Capacity Perspective **2010**,		5
84	13C NMR relaxation study of molecular motions in tetraphenyltin and tetra(p-tolyl)tin in solution. *Journal of Physical Chemistry A*, **2005**, 109, 12059-63	2.8	5
83	Reduced-Complexity Iterative Receiver for Improving the IEEE 802.15.7 Convolutional-Coded Color Shift Keying Mode. *IEEE Communications Letters*, **2017**, 21, 2005-2008	3.8	4
82	Hybrid Transceiver Optimization for Multi-Hop Communications. *IEEE Journal on Selected Areas in Communications*, **2020**, 38, 1880-1895	14.2	4
81	Quantum Turbo Decoding for Quantum Channels Exhibiting Memory. *IEEE Access*, **2018**, 6, 12369-12381	3.5	4
80	. *IEEE Transactions on Vehicular Technology*, **2014**, 63, 297-307	6.8	4
79	Near-Capacity Turbo Coded Soft-Decision Aided DAPSK/Star-QAM for Amplify-and-Forward Based Cooperative Communications. *IEEE Transactions on Communications*, **2013**, 61, 1080-1087	6.9	4
78	Coherent versus Non-Coherent Quantum-Assisted Solutions in Wireless Systems. *IEEE Wireless Communications*, **2017**, 24, 144-153	13.4	4

77	Self-Concatenated Code Design and its Application in Power-Efficient Cooperative Communications. *IEEE Communications Surveys and Tutorials*, **2011**,	37.1	4
76	Adaptive Turbo Trellis Coded Modulation Aided Distributed Space-Time Trellis Coding for Cooperative Communications **2010**,		4
75	A Near-Capacity Differentially Encoded Non-Coherent Adaptive Multiple-Symbol-Detection Aided Three-Stage Coded Scheme **2010**,		4
74	Distributed Three-Stage Concatenated Irregular Convolutional, Unity-Rate and Space-Time Trellis Coding for Single-Antenna Aided Cooperative Communications **2010**,		4
73	Near-Capacity Three-Stage Turbo Detection of Irregular Convolutional Coded Joint Sphere-Packing Modulation and Space-Time Coding. *IEEE Transactions on Communications*, **2009**, 57, 1486-1495	6.9	4
72	Near-Capacity Network Coding for Cooperative Multi-User Communications **2011**,		4
71	Three-Stage Turbo MBER Multiuser Beamforming Receiver Using Irregular Convolutional Codes. *IEEE Transactions on Vehicular Technology*, **2008**, 57, 1657-1663	6.8	4
70	Turbo Trellis-Coded Hierarchical-Modulation Assisted Decode-and-Forward Cooperation. *IEEE Transactions on Vehicular Technology*, **2015**, 64, 3971-3981	6.8	3
69	Distributed Irregular Codes Relying on Decode-and-Forward Relays as Code Components. *IEEE Transactions on Vehicular Technology*, **2015**, 64, 4579-4588	6.8	3
68	Fully-Parallel Quantum Turbo Decoder. *IEEE Access*, **2016**, 4, 6073-6085	3.5	3
67	Network Coded MIMO Aided Cooperative Communications in the Ambulance-and-emergency Area. *Procedia Computer Science*, **2014**, 40, 214-221	1.6	3
66	Energy-efficient buffer-aided relaying relying on non-linear channel probability space division **2014**,		3
65	Irregular Distributed Space-Time Code Design for Near-Capacity Cooperative Communications **2009**,		3
64	Near-Capacity Turbo Coded Soft-Decision Aided DAPSK/Star-QAM **2011**,		3
63	Successive Relaying Aided Near-Capacity Irregular Distributed Space-Time Coding **2009**,		3
62	Precoded Sphere-Packing-Aided Bit-Interleaved Differential Space-Time Coded Modulation Using Iterative Decoding. *IEEE Transactions on Vehicular Technology*, **2008**, 57, 1311-1316	6.8	3
61	Nonbinary LDPC-Coded Sphere-Packed Transmit Diversity. *IEEE Transactions on Vehicular Technology*, **2008**, 57, 3200-3205	6.8	3
60	Near-Capacity Iteratively Decoded Space-Time Block Coding. *IEEE Vehicular Technology Conference*, **2008**,	0.1	3

59	TTCM assisted genetic-algorithm aided reduced-complexity multiuser detection. *Electronics Letters*, **2002**, 38, 722	1.1	3
58	Sampling Overhead Analysis of Quantum Error Mitigation: Uncoded vs. Coded Systems. *IEEE Access*, **2020**, 8, 228967-228991	3.5	3
57	Performance Analysis of High Throughput MAP Decoder for Turbo Codes and Self Concatenated Convolutional Codes. *IEEE Access*, **2019**, 7, 138079-138093	3.5	3
56	Low-Complexity Generator Polynomial Search for Turbo Trellis-Coded Spatial Modulation Using Symbol-based EXIT Charts **2018**,		3
55	Air-to-Ground NOMA Systems for the Internet-Above-the-Clouds *IEEE Access*, **2018**, 6, 47442-47460	3.5	3
54	Multiobjective Optimization for Integrated Ground-Air-Space Networks: Current Research and Future Challenges. *IEEE Vehicular Technology Magazine*, **2021**, 16, 88-98	9.9	3
53	Twin-Component Near-Pareto Routing Optimization for AANETs in the North-Atlantic Region Relying on Real Flight Statistics. *IEEE Open Journal of Vehicular Technology*, **2021**, 2, 346-364	5.3	3
52	A Reconciliation Strategy for Real-Time Satellite-Based QKD. *IEEE Communications Letters*, **2020**, 24, 1062-1066	3.8	2
51	Maximum Throughput Adaptive Rate Transmission scheme for multihop diversity aided multihop links **2014**,		2
50	EXIT-Chart Aided Code Design for Symbol-Based Entanglement-Assisted Classical Communication over Quantum Channels **2014**,		2
49	. *IEEE Transactions on Vehicular Technology*, **2013**, 62, 2496-2506	6.8	2
48	Network Coding Aided Cooperative Cognitive Radio for Uplink Transmission **2015**,		2
47	On Buffer-Assisted Opportunistic Routing Relying on Linear Transmission Activation Probability Space Partitioning for Relay-Aided Networks **2014**,		2
46	Energy-efficient relay aided ad hoc networks using iteratively detected irregular convolutional coded, unity-rate coded and Space-Time Trellis Coded transceivers **2011**,		2
45	Bit-Interleaved Sphere-Packing-Aided Iteratively Detected Space-Time Coded Modulation. *IEEE Transactions on Vehicular Technology*, **2009**, 58, 493-499	6.8	2
44	EXIT-Chart-Aided Three-Stage Concatenated Ultrawideband Time-Hopping Spread-Spectrum Impulse Radio Design. *IEEE Transactions on Vehicular Technology*, **2009**, 58, 5320-5324	6.8	2
43	Energy-Efficient Routing in Ad Hoc Networks Relying on Channel State Information and Limited MAC Retransmissions **2011**,		2
42	Adaptive Turbo Trellis Coded Modulation aided cooperative Cognitive Radio **2012**,		2

41	Joint Source Coding, Unity Rate Precoding and FFH-MFSK Modulation Using Iteratively Decoded Irregular Variable Length Coding. *Vehicular Technology Conference-Fall (VTC-FALL), Proceedings, IEEE*, **2007**,		2
40	Joint-detection and interference cancellation based burst-by-burst adaptive CDMA schemes. *IEEE Transactions on Vehicular Technology*, **2002**, 51, 1479-1493	6.8	2
39	Energy efficient transmission in underlay CR-NOMA networks enabled by reinforcement learning. *China Communications*, **2020**, 17, 66-79	3	2
38	. *IEEE Access*, **2021**, 9, 137941-137956	3.5	2
37	Multiuser Detection for Nonlinear MIMO Uplink. *IEEE Transactions on Communications*, **2020**, 68, 207-219	6.9	2
36	Distributed Reciprocal-Selection-Based Win-Win Cooperative Medium Access and its Stability Analysis. *IEEE Access*, **2016**, 4, 7703-7715	3.5	2
35	A Continuous Policy Learning Approach for Hybrid Offloading in Backscatter Communication. *IEEE Communications Letters*, **2021**, 25, 523-527	3.8	2
34	Minimum-Delay Routing for Integrated Aeronautical Ad Hoc Networks Relying on Real Flight Data in the North-Atlantic Region. *IEEE Open Journal of Vehicular Technology*, **2021**, 2, 310-320	5.3	2
33	A Cooperative Spectrum Sensing With Multi-Agent Reinforcement Learning Approach in Cognitive Radio Networks. *IEEE Communications Letters*, **2021**, 25, 2604-2608	3.8	2
32	Particle swarm optimization assisted B-spline neural network based predistorter design to enable transmit precoding for nonlinear MIMO downlink. *Neurocomputing*, **2021**, 458, 336-348	5.4	2
31	Distributed Source Channel Coding Using Reduced-Complexity Syndrome-Based TTCM. *IEEE Communications Letters*, **2016**, 20, 2095-2098	3.8	1
30	Joint Decoding and Estimation of Spatio-Temporally Correlated Binary Sources. *IEEE Transactions on Vehicular Technology*, **2018**, 67, 6690-6694	6.8	1
29	Joint source and Turbo Trellis Coded Hierarchical Modulation for context-aware medical image transmission **2013**,		1
28	Distributed Matching Algorithms: Maximizing Secrecy in the Presence of Untrusted Relay. *Radioengineering*, **2017**, 26, 601-610	0.8	1
27	13C NMR relaxation and computational study of anisole and derivatives in the solution state. *Journal of Physical Organic Chemistry*, **2012**, 25, 1374-1379	2.1	1
26	Turbo-coded Star-QAM for cooperative wireless and optical-fiber communications **2012**,		1
25	Turbo Trellis Coded hierarchical modulation for cooperative communications **2013**,		1
24	H.264 Wireless Video Telephony Using Iteratively-Detected Binary Self-Concatenated Coding **2010**,		1

23	Superposition Coding Aided Bi-Directional Relay Transmission Employing Iteratively Decoded Self-Concatenated Convolutional Codes **2010**,		1
22	TTCM-Aided SDMA-Based Two-Way Relaying **2011**,		1
21	Turbo Coded and Cooperative Network Coded Non-Coherent Soft-Decision Star-QAM Dispensing with Channel Estimation **2011**,		1
20	Near-Capacity Non-Coherent Network-Coding Aided Scheme for Cooperative Multi-User Communications **2011**,		1
19	Equivalent Capacity-Based Joint Multilevel Coding and Space Time Transmit Diversity Design. *IEEE Transactions on Vehicular Technology*, **2008**, 57, 3006-3014	6.8	1
18	SVD-Aided, Iteratively Detected Spatial Division Multiplexing Using Long-Range Channel Prediction. *Signal Processing Systems Design and Implementation (siPS), IEEE Workshop on*, **2007**,		1
17	The Accuracy vs. Sampling Overhead Trade-off in Quantum Error Mitigation Using Monte Carlo-Based Channel Inversion. *IEEE Transactions on Communications*, **2022**, 1-1	6.9	1
16	Factor Graphs for Support Identification in Compressive Sensing Aided Wireless Sensor Networks. *IEEE Sensors Journal*, **2021**, 1-1	4	1
15	Quantum Error Mitigation Relying on Permutation Filtering. *IEEE Transactions on Communications*, **2021**, 1-1	6.9	1
14	Distributed Joint Source-Channel Coding-Based Adaptive Dynamic Network Coding. *IEEE Access*, **2020**, 8, 86715-86731	3.5	1
13	Gate-Error-Resilient Quantum Steane Codes. *IEEE Access*, **2020**, 8, 179346-179362	3.5	1
12	. *IEEE Transactions on Wireless Communications*, **2021**, 20, 3847-3864	9.6	1
11	Semi-Stochastic Aircraft Mobility Modelling for Aeronautical Networks: An Australian Case-Study Based on Real Flight Data. *IEEE Transactions on Vehicular Technology*, **2021**, 1-1	6.8	1
10	Cooperative Cache in Cognitive Radio Networks: A Heterogeneous Multi-Agent Learning Approach. *IEEE Communications Letters*, **2022**, 1-1	3.8	1
9	Experimental Characterization of Fault-Tolerant Circuits in Small-Scale Quantum Processors. *IEEE Access*, **2021**, 9, 162996-163011	3.5	0
8	Intelligent Caching in UAV-Aided Networks. *IEEE Transactions on Vehicular Technology*, **2021**, 1-1	6.8	0
7	Turbo-coded secure and reliable quantum teleportation. *IET Quantum Communication*, **2020**, 1, 16-21	3.2	0
6	Entanglement-Assisted Classical Communication Over Quantum Channels for Binary Markov Sources. *IEEE Transactions on Vehicular Technology*, **2018**, 67, 3866-3873	6.8	

List of Publications

5	Discrete-input continuous-output memoryless channel capacity of cooperative hierarchical modulation. *IET Communications*, **2016**, 10, 65-71	1.3
4	Joint channel prediction aided differentially encoded TTCM and BICMID assisted eigen-beamforming. *Electronics Letters*, **2007**, 43, 232	1.1
3	Cooperative Communications, Distributed Coding and Machine Learning. *Communications in Computer and Information Science*, **2020**, 29-58	0.3
2	Priority-Aware Secure Precoding Based on Multi-Objective Symbol Error Ratio Optimization. *IEEE Transactions on Communications*, **2021**, 69, 1912-1929	6.9
1	Dual-Frequency Quantum Phase Estimation Mitigates the Spectral Leakage of Quantum Algorithms. *IEEE Signal Processing Letters*, **2022**, 1-1	3.2