Francis C M Lau

List of Publications by Year
in descending order

248 papers	4,494 citations	101496 36 h-index	133188 59 g-index
250 all docs	250 docs citations	250 times ranked	2981 citing authors

#	Article	IF	Citations
1	A network perspective of the stock market. Journal of Empirical Finance, 2010, 17, 659-667.	0.9	299
2	Chaos-Based Digital Communication Systems. Signals and Communication Technology, 2003, , .	0.4	253
3	Performance of Differential Chaos-Shift-Keying Digital Communication Systems Over a Multipath Fading Channel With Delay Spread. IEEE Transactions on Circuits and Systems Part 2: Express Briefs, 2004, 51, 680-684.	2.3	172
4	An efficient and secure medical image protection scheme based on chaotic maps. Computers in Biology and Medicine, 2013, 43, 1000-1010.	3.9	150
5	A Survey on Protograph LDPC Codes and Their Applications. IEEE Communications Surveys and Tutorials, 2015, 17, 1989-2016.	24.8	130
6	Outage-Limit-Approaching Channel Coding for Future Wireless Communications: Root-Protograph Low-Density Parity-Check Codes. IEEE Vehicular Technology Magazine, 2019, 14, 85-93.	2.8	128
7	Decode-and-Forward Two-Way Relaying with Network Coding and Opportunistic Relay Selection. IEEE Transactions on Communications, 2010, 58, 3070-3076.	4.9	116
8	A Delay-Aware Data Collection Network Structure for Wireless Sensor Networks. IEEE Sensors Journal, 2011, 11, 699-710.	2.4	113
9	A Survey on DCSK-Based Communication Systems and Their Application to UWB Scenarios. IEEE Communications Surveys and Tutorials, 2016, 18, 1804-1837.	24.8	110
10	Multilevel codeâ€shifted differentialâ€chaosâ€shiftâ€keying system. IET Communications, 2016, 10, 1189-1195.	1.5	97
11	APPLYING RESONANT PARAMETRIC PERTURBATION TO CONTROL CHAOS IN THE BUCK DC/DC CONVERTER WITH PHASE SHIFT AND FREQUENCY MISMATCH CONSIDERATIONS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2003, 13, 3459-3471.	0.7	76
12	Analysis of Communication Network Performance From a Complex Network Perspective. IEEE Transactions on Circuits and Systems I: Regular Papers, 2013, 60, 3303-3316.	3.5	72
13	One Analog STBC-DCSK Transmission Scheme not Requiring Channel State Information. IEEE Transactions on Circuits and Systems I: Regular Papers, 2013, 60, 1027-1037.	3.5	72
14	Permutation-based DCSK and multiple-access DCSK systems. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2003, 50, 733-742.	0.1	71
15	Exact Analytical Bit Error Rates for Multiple Access Chaos-Based Communication Systems. IEEE Transactions on Circuits and Systems Part 2: Express Briefs, 2004, 51, 473-481.	2.3	66
16	Generalized correlation-delay-shift-keying scheme for noncoherent chaos-based communication systems. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2006, 53, 712-721.	0.1	64
17	Performance analysis for MIMO systems using zero forcing detector over fading channels. IET Communications, 2006, 153, 74.	1.0	62
18	A Clustering Algorithm for Wireless Sensor Networks Based on Social Insect Colonies. IEEE Sensors Journal, 2011, 11, 711-721.	2.4	61

#	Article	IF	Citations
19	Exploiting Full-Duplex Two-Way Relay Cooperative Non-Orthogonal Multiple Access. IEEE Transactions on Communications, 2019, 67, 2716-2729.	4.9	61
20	A multiple-access technique for differential chaos-shift keying. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2002, 49, 96-104.	0.1	54
21	Design and Optimization of Differential Chaos Shift Keying Scheme With Code Index Modulation. IEEE Transactions on Communications, 2018, 66, 1970-1980.	4.9	54
22	Constructing Short-Length Irregular LDPC Codes with Low Error Floor. IEEE Transactions on Communications, 2010, 58, 2823-2834.	4.9	53
23	Analysis of power control and its imperfections in CDMA cellular systems. IEEE Transactions on Vehicular Technology, 1999, 48, 1706-1717.	3.9	49
24	Asymptotic Analysis of Opportunistic Relaying Protocols. IEEE Transactions on Wireless Communications, 2009, 8, 3915-3920.	6.1	49
25	Design of Protograph LDPC Codes for Partial Response Channels. IEEE Transactions on Communications, 2012, 60, 2809-2819.	4.9	49
26	Design Guidelines of Low-Density Parity-Check Codes for Magnetic Recording Systems. IEEE Communications Surveys and Tutorials, 2018, 20, 1574-1606.	24.8	49
27	Analysis of metro network performance from a complex network perspective. Physica A: Statistical Mechanics and Its Applications, 2018, 492, 553-563.	1.2	49
28	Diversity order for amplify-and-forward dual-hop systems with fixed-gain relay under Nakagami fading channels. IEEE Transactions on Wireless Communications, 2010, 9, 92-98.	6.1	47
29	A Square-Constellation-Based M -Ary DCSK Communication System. IEEE Access, 2016, 4, 6295-6303.	2.6	47
30	Joint Optimization of Protograph LDPC Code Pair for Joint Source and Channel Coding. IEEE Transactions on Communications, 2018, 66, 3255-3267.	4.9	47
31	Pricing Mobile Data Offloading: A Distributed Market Framework. IEEE Transactions on Wireless Communications, 2016, 15, 913-927.	6.1	46
32	An Energy-Aware Scheduling Scheme for Wireless Sensor Networks. IEEE Transactions on Vehicular Technology, 2010, 59, 3427-3444.	3.9	44
33	An approach to calculating the bit-error rate of a coherent chaos-shift-keying digital communication system under a noisy multiuser environment. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2002, 49, 210-223.	0.1	43
34	A Multiple Access Scheme for Chaos-Based Digital Communication Systems Utilizing Transmitted Reference. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2004, 51, 1868-1878.	0.1	43
35	Irregular-Mapped Protograph LDPC-Coded Modulation: A Bandwidth-Efficient Solution for 6G-Enabled Mobile Networks. IEEE Transactions on Intelligent Transportation Systems, 2023, 24, 2060-2073.	4.7	42
36	Outage Performance of Cooperative Communication Systems Using Opportunistic Relaying and Selection Combining Receiver. IEEE Signal Processing Letters, 2009, 16, 237-240.	2.1	39

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37	A 2.0 Gb/s Throughput Decoder for QC-LDPC Convolutional Codes. IEEE Transactions on Circuits and Systems I: Regular Papers, 2013, 60, 1857-1869.	3.5	37
38	A class of QC-LDPC codes with low encoding complexity and good error performance. IEEE Communications Letters, 2010, 14, 169-171.	2.5	34
39	Two incremental relaying protocols for cooperative networks. IET Communications, 2008, 2, 1272.	1.5	33
40	Coexistence of Chaos-Based and Conventional Digital Communication Systems of Equal Bit Rate. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2004, 51, 391-408.	0.1	31
41	High-SNR Analysis of Opportunistic Relaying Based on the Maximum Harmonic Mean Selection Criterion. IEEE Signal Processing Letters, 2010, 17, 719-722.	2.1	31
42	A 3.0 Gb/s Throughput Hardware-Efficient Decoder for Cyclically-Coupled QC-LDPC Codes. IEEE Transactions on Circuits and Systems I: Regular Papers, 2016, 63, 134-145.	3.5	31
43	A layered QC-LDPC decoder architecture for high speed communication system. , 2012, , .		30
44	Full-Duplex Relaying Cognitive Radio Network With Cooperative Nonorthogonal Multiple Access. IEEE Systems Journal, 2019, 13, 3897-3908.	2.9	29
45	Analysis of bit error rates for multiple access csk and dcsk communication systems. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2003, 50, 702-707.	0.1	28
46	Rate-Compatible Root-Protograph LDPC Codes for Quasi-Static Fading Relay Channels. IEEE Transactions on Vehicular Technology, 2016, 65, 2741-2747.	3.9	27
47	Concept of Node Usage Probability From Complex Networks and Its Applications to Communication Network Design. IEEE Transactions on Circuits and Systems I: Regular Papers, 2015, 62, 1195-1204.	3.5	25
48	A parallel-routing network for reliability inferences of single-parity-check decoder. , 2015, , .		24
49	Optimizing Performance of Communication Networks: An Application of Network Science. IEEE Transactions on Circuits and Systems II: Express Briefs, 2015, 62, 95-99.	2.2	24
50	Analysis and Optimization of Tail-Biting Spatially Coupled Protograph LDPC Codes for BICM-ID Systems. IEEE Transactions on Vehicular Technology, 2020, 69, 390-404.	3.9	23
51	Theory and Application of Software Defined Electronics: Design Concepts for the Next Generation of Telecommunications and Measurement Systems. IEEE Circuits and Systems Magazine, 2012, 12, 8-34.	2.6	22
52	Accelerating FPGA Prototyping through Predictive Model-Based HLS Design Space Exploration. , 2019, , .		22
53	Anti-jamming performance of chaotic digital communication systems. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2002, 49, 1486-1494.	0.1	21
54	Complex-Network Modeling of a Call Network. IEEE Transactions on Circuits and Systems I: Regular Papers, 2009, 56, 416-429.	3.5	21

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55	Performance analysis of protograph-based low-density parity-check codes with spatial diversity. IET Communications, 2012, 6, 2941-2948.	1.5	21
56	Implementation of Decoders for LDPC Block Codes and LDPC Convolutional Codes Based on GPUs. IEEE Transactions on Parallel and Distributed Systems, 2014, 25, 663-672.	4.0	21
57	Performance Analysis of Cooperative Non-Orthogonal Multiple Access Based on Spectrum Sensing. IEEE Transactions on Vehicular Technology, 2019, 68, 6855-6866.	3.9	21
58	Fixed-Point Implementation of Convolutional Neural Networks for Image Classification. , 2018, , .		20
59	Semi-Flocking-Controlled Mobile Sensor Networks for Dynamic Area Coverage and Multiple Target Tracking. IEEE Sensors Journal, 2018, 18, 8883-8892.	2.4	20
60	Root-Protograph-Based BICM-ID: A Reliable and Efficient Transmission Solution for Block-Fading Channels. IEEE Transactions on Communications, 2019, 67, 5921-5939.	4.9	20
61	Data storage using peptide sequences. Nature Communications, 2021, 12, 4242.	5.8	20
62	Outage Performance of Cooperative Communication Systems Using Opportunistic Relaying and Selection Combining Receiver. IEEE Signal Processing Letters, 2009, 16, 113-116.	2.1	19
63	Diophantine Approach to Blind Interference Alignment of Homogeneous K-User 2x1 MISO Broadcast Channels. IEEE Journal on Selected Areas in Communications, 2013, 31, 2141-2153.	9.7	19
64	OPTIMUM CORRELATOR-TYPE RECEIVER DESIGN FOR CSK COMMUNICATION SYSTEMS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2002, 12, 1029-1038.	0.7	18
65	Permutation-Based M-ary Chaotic-Sequence Spread-Spectrum Communication Systems. Circuits, Systems, and Signal Processing, 2003, 22, 567-577.	1.2	17
66	On Optimal Detection of Noncoherent Chaos-Shift-Keying Signals in a Noisy Environment. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2003, 13, 1587-1597.	0.7	17
67	Resource Allocation for Multiuser OFDMA Hybrid Full/Half-Duplex Relaying Systems With Direct Links. IEEE Transactions on Vehicular Technology, 2016, 65, 6101-6118.	3.9	17
68	Use of UWB Impulse Radio Technology in In-Car Communications: Power Limits and Optimization. IEEE Transactions on Vehicular Technology, 2017, 66, 6037-6049.	3.9	17
69	Return-map-based approaches for noncoherent detection in chaotic digital communications. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2002, 49, 1495-1499.	0.1	16
70	Scale-free user-network approach to telephone network traffic analysis. Physical Review E, 2005, 72, 026116.	0.8	16
71	Analysis and Improvement of Error-Floor Performance for JSCC Scheme Based on Double Protograph LDPC Codes. IEEE Transactions on Vehicular Technology, 2020, 69, 14316-14329.	3.9	16
72	Analysis of telephone network traffic based on a complex user network. Physica A: Statistical Mechanics and Its Applications, 2006, 368, 583-594.	1.2	14

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73	Joint Shuffled Scheduling Decoding Algorithm for DP-LDPC Codes-Based JSCC Systems. IEEE Wireless Communications Letters, 2019, 8, 1696-1699.	3.2	14
74	Joint Carrier-Code Index Modulation Aided M-Ary Differential Chaos Shift Keying System. IEEE Transactions on Vehicular Technology, 2020, 69, 15486-15499.	3.9	14
75	Novel SIR-estimation-based power control in a CDMA mobile radio system under multipath environment. IEEE Transactions on Vehicular Technology, 2001, 50, 314-320.	3.9	13
76	Achievable-SIR-based predictive closed-loop power control in a CDMA mobile system. IEEE Transactions on Vehicular Technology, 2002, 51, 720-728.	3.9	13
77	Performance of chaos-based communication systems under the influence of coexisting conventional spread-spectrum systems. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2003, 50, 1475-1481.	0.1	13
78	Analytical performance of M-ary time-hopping orthogonal PPM UWB systems under multiple access interference. IEEE Transactions on Communications, 2008, 56, 1780-1784.	4.9	13
79	A Bio-Inspired Scheduling Scheme for Wireless Sensor Networks. IEEE Vehicular Technology Conference, 2008, , .	0.2	13
80	Application of complex-network theories to the design of short-length low-density-parity-check codes. IET Communications, 2009, 3, 1569.	1.5	13
81	Multichannel Opportunistic Access by Overhearing Primary ARQ Messages. IEEE Transactions on Vehicular Technology, 2013, 62, 3486-3492.	3.9	13
82	Improved online fountain codes. IET Communications, 2018, 12, 2297-2304.	1.5	13
83	A RETURN MAP REGRESSION APPROACH FOR NONCOHERENT DETECTION IN CHAOTIC DIGITAL COMMUNICATIONS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2003, 13, 685-690.	0.7	12
84	Asymptotic Analysis of Opportunistic Relaying Based on the Max-Generalized-Mean Selection Criterion. IEEE Transactions on Wireless Communications, 2011, 10, 1050-1057.	6.1	12
85	Minimum-Polytope-Based Linear Programming Decoder for LDPC Codes via ADMM Approach. IEEE Wireless Communications Letters, 2019, 8, 1032-1035.	3.2	12
86	Construction of GC-Balanced DNA With Deletion/Insertion/Mutation Error Correction for DNA Storage System. IEEE Access, 2020, 8, 140972-140980.	2.6	12
87	A fast searching method for the construction of QC-LDPC codes with large girth. , 2012, , .		11
88	Decoding Generalized Joint Channel Coding and Physical Network Coding in the LLR Domain. IEEE Signal Processing Letters, 2013, 20, 121-124.	2.1	11
89	APPROXIMATE-OPTIMAL DETECTOR FOR CHAOS COMMUNICATION SYSTEMS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2003, 13, 1329-1335.	0.7	10
90	OSCILLATION AND PERIOD DOUBLING IN TCP/RED SYSTEM: ANALYSIS AND VERIFICATION. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2008, 18, 1459-1475.	0.7	10

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91	Performance Bounds of Opportunistic Cooperative Communications With CSI-Assisted Amplify-and-Forward Relaying and MRC Reception. IEEE Transactions on Vehicular Technology, 2010, 59, 2159-2165.	3.9	10
92	Performance Analysis for MIMO Systems using Zero Forcing Detector over Rice Fading Channel. , 0, , .		9
93	Evaluation of the Extremely Low Block Error Rate of Irregular LDPC Codes. , 2009, , .		9
94	Mitigating Doppler effects on physical-layer network coding in VANET. , 2015, , .		9
95	The Feasibility of Mobile Physical-Layer Network Coding with BPSK Modulation. IEEE Transactions on Vehicular Technology, 2016, , 1-1.	3.9	9
96	Operating frequency improvement on FPGA implementation of a pipeline large-FFT processor. , 2017, , .		9
97	Design and Analysis of Punctured Terminated Spatially Coupled Protograph LDPC Codes With Small Coupling Lengths. IEEE Access, 2018, 6, 36723-36731.	2.6	9
98	Path-Planning-Enabled Semiflocking Control for Multitarget Monitoring in Mobile Sensor Networks. IEEE Transactions on Industrial Informatics, 2020, 16, 4778-4787.	7.2	9
99	A Novel Approach to Analyzing V-BLAST MIMO Systems with Two Transmit Antennas. IEEE Transactions on Wireless Communications, 2007, 6, 1591-1595.	6.1	8
100	Optimisation of low-density parity-check codes with deterministic unequal error protection properties. IET Communications, 2011, 5, 1560-1565.	1.5	8
101	SCALE-FREE LUBY TRANSFORM CODES. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2012, 22, 1250094.	0.7	8
102	Performance of cooperative spectrum sensing over fading channels with low signal-to-noise ratio. IET Communications, 2012, 6, 1988-1999.	1.5	8
103	Rapid prototyping of multi-mode QC-LDPC decoder for 802.11n/ac standard. , 2016, , .		8
104	Parameter Identification of Chaotic Systems by a Novel Dual Particle Swarm Optimization. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2016, 26, 1650024.	0.7	8
105	The Design of Vertical RS-CRC and LDPC Code for Ship-Based Satellite Communications On-the-Move. IEEE Access, 2019, 7, 44977-44986.	2.6	8
106	Protograph-Based LDPC Hadamard Codes. IEEE Transactions on Communications, 2021, 69, 4998-5013.	4.9	8
107	Throughput analysis of B-networks. IEEE Transactions on Computers, 1998, 47, 482-485.	2.4	7
108	Analytical approach of V-BLAST performance with two transmit antennas. , 0, , .		7

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109	Performance evaluation of irregular low-density parity-check codes at high signal-to-noise ratio. IET Communications, 2011, 5, 1587-1596.	1.5	7
110	On the Diversity Order of a General Cooperative Relaying Communication System. Wireless Personal Communications, 2014, 77, 605-631.	1.8	7
111	Effective routing algorithms based on node usage probability from a complex network perspective. , 2014, , .		7
112	Max–Min Weighted Downlink SINR With Uplink SINR Constraints for Full-Duplex MIMO Systems. IEEE Transactions on Signal Processing, 2017, 65, 3277-3292.	3.2	7
113	Energy-Efficient Semi-Flocking Control of Mobile Sensor Networks on Rough Terrains. IEEE Transactions on Circuits and Systems II: Express Briefs, 2019, 66, 622-626.	2.2	7
114	Generalization of Waveform Communications: The Fourier Analyzer Approach. Circuits, Systems, and Signal Processing, 2005, 24, 451-474.	1.2	6
115	Performance Limit of Chaotic Digital Waveform Communication Systems: Approach of Maximizing a Posteriori Probability. Circuits, Systems, and Signal Processing, 2005, 24, 639-655.	1.2	6
116	Feasibility of UWB radio: Impulse radio versus chaos-based approach. , 2010, , .		6
117	Efficient Decoding of QC-LDPC Codes Using GPUs. Lecture Notes in Computer Science, 2011, , 294-305.	1.0	6
118	Improved Min-Sum Decoding for 2-D Intersymbol Interference Channels. IEEE Transactions on Magnetics, 2014, 50, 1-4.	1.2	6
119	A high throughput Gaussian noise generator. , 2014, , .		6
120	Comments on "Overview of cellular CDMA. IEEE Transactions on Vehicular Technology, 1998, 47, 369-371.	3.9	5
121	Intelligent closed-loop power control algorithm in CDMA mobile radio system. Electronics Letters, 1999, 35, 785.	0.5	5
122	Performance of Chaos-Based Digital Communication Systems in the Presence of a Pulsed-Noise Jammer. Circuits, Systems, and Signal Processing, 2004, 23, 169-194.	1.2	5
123	Reconstruction of chaotic signals with application to channel equalization in chaos-based communication systems. International Journal of Communication Systems, 2004, 17, 217-232.	1.6	5
124	AN APPROACH TO CALCULATE THE BIT ERROR RATES OF MULTIPLE ACCESS CHAOTIC-SEQUENCE SPREAD-SPECTRUM COMMUNICATION SYSTEMS EMPLOYING MULTI-USER DETECTORS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2004, 14, 183-206.	0.7	5
125	Effect of clustering in a complex user network on the telephone traffic. Physica A: Statistical Mechanics and Its Applications, 2006, 371, 745-753.	1.2	5
126	Parallel decoding of LDPC convolutional codes using OpenMP and GPU. , 2012, , .		5

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127	Outage Performance and Cooperative Diversity Under Amplify and Forward Relaying in Cognitive Radio Networks. Wireless Personal Communications, 2013, 69, 891-914.	1.8	5
128	On using the cyclically-coupled QC-LDPC codes in future SSDs. , 2016, , .		5
129	A consistent heuristic for efficient path planning on mobility maps. , 2017, , .		5
130	A Turbo-Hadamard Encoder/Decoder System with Hundreds of Mbps Throughput. , 2018, , .		5
131	Joint Source-Channel Codes Based on a Single Protograph. , 2021, , .		5
132	A chaos tracker applied to non-coherent detection in chaos-based digital communication systems. , 0, , .		4
133	PERFORMANCE OF FREQUENCY-MODULATED DIFFERENTIAL-CHAOS-SHIFT-KEYING COMMUNICATION SYSTEM OVER MULTIPATH FADING CHANNELS WITH DELAY SPREAD. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2005, 15, 4027-4033.	0.7	4
134	Modeling the Telephone Call Network. , 2007, , .		4
135	Study of bifurcation behavior of two-dimensional turbo product code decoders. Chaos, Solitons and Fractals, 2008, 36, 500-511.	2.5	4
136	A scheduling scheme for wireless sensor networks based on social insect colonies. IET Communications, 2009, 3, 714.	1.5	4
137	BP-Maxwell Decoding Algorithm for LDPC Codes over AWGN Channels. , 2010, , .		4
138	Energy Consumption in Wireless Sensor Networks under Varying Sensor Node Traffic. , 2010, , .		4
139	Influential factors for decimetre level positioning using ultra wide band technology. Survey Review, 2012, 44, 37-44.	0.7	4
140	Finiteâ€length extrinsic information transfer analysis and design of protograph lowâ€density parityâ€check codes for ultraâ€highâ€density magnetic recording channels. IET Communications, 2016, 10, 1303-1311.	1.5	4
141	Path Planning for Semi-Flocking-Controlled Mobile Sensor Networks on Mobility Maps. , 2018, , .		4
142	Page-Based Dynamic Partitioning Scheduling for LDPC Decoding in MLC NAND Flash Memory. IEEE Transactions on Circuits and Systems II: Express Briefs, 2019, 66, 2082-2086.	2.2	4
143	Temnothorax albipennis migration inspired semi-flocking control for mobile sensor networks. Chaos, 2019, 29, 063113.	1.0	4
144	Adaptive 2-D Scheduling-Based Nonbinary Majority-Logic Decoding for NAND Flash Memory. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 1349-1353.	2.2	4

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145	An Ultimate-Shannon-Limit-Approaching Gbps Throughput Encoder/Decoder System. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 2169-2173.	2.2	4
146	Protograph-based LDPC-Hadamard Codes. , 2020, , .		4
147	Layered Decoding for Protograph-Based Low-Density Parity-Check Hadamard Codes. IEEE Communications Letters, 2021, 25, 1776-1780.	2.5	4
148	On Massive IoT Connectivity with Temporally-Correlated User Activity. , 2021, , .		4
149	Improvements in the waveform relaxation method applied to transmission lines. IEEE Transactions on Microwave Theory and Techniques, 1995, 43, 1201-1203.	2.9	3
150	Waveform relaxation analysis of lossy coupled transmission line sets in cascade. IET Circuits, Devices and Systems, 1995, 142, 373.	0.6	3
151	Predictive closed-loop power control in CDMA mobile systems. Electronics Letters, 2001, 37, 52.	0.5	3
152	PERFORMANCE ANALYSIS OF MULTIPLE ACCESS CHAOTIC-SEQUENCE SPREAD-SPECTRUM COMMUNICATION SYSTEMS USING PARALLEL INTERFERENCE CANCELLATION RECEIVERS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2004, 14, 3633-3646.	0.7	3
153	STUDY OF BIFURCATION BEHAVIOR OF LDPC DECODERS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2006, 16, 3435-3449.	0.7	3
154	Performance Analysis of Serial Cooperative Communications with Decode-and-Forward Relaying and Blind-EGC Reception under Nakagami Fading Channels. IEEE Transactions on Wireless Communications, 2009, 8, 5455-5460.	6.1	3
155	Application of Complex Networks to Coding. IEEE Circuits and Systems Magazine, 2010, 10, 38-47.	2.6	3
156	Complex network approach to communication network performance analysis. , 2012, , .		3
157	Generalized LDPC code with single-parity-check product constraints at super check nodes. , 2012, , .		3
158	Application of universal software defined PXI platform for the performance evaluation of FM-DCSK communications system. , 2013, , .		3
159	A distributed market framework for mobile data offloading. , 2015, , .		3
160	An architecture-algorithm co-design of artificial intelligence for Trax player. , 2015, , .		3
161	SSCSMA-based random relay selection scheme for large-scale relay networks. Computer Communications, 2018, 127, 13-19.	3.1	3
162	Hardware Design of Concatenated Zigzag Hadamard Encoder/Decoder System With High Throughput. IEEE Access, 2020, 8, 165298-165306.	2.6	3

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163	Implementation of FM-DCSK modulation scheme on USRP platform based on complex envelope. IEICE Proceeding Series, 2014, 1, 797-800.	0.0	3
164	Transient analysis of lossy coupled transmission lines in a lossy medium using the waveform relaxation method. IEEE Transactions on Microwave Theory and Techniques, 1995, 43, 692-697.	2.9	2
165	Study of nonlinear dynamics of LDPC decoders. , 0, , .		2
166	Closed-form expressions for symbol error probability of orthogonal spaceâ€"time block codes over Ricianâ€"Nakagami channels. IET Communications, 2007, 1, 655.	1.5	2
167	Construction of short-length LDPC codes with low error floor. , 2008, , .		2
168	Simulation and implementation of dual-polarization TD-SCDMA smart antennas. , 2009, , .		2
169	Improving the noise performance of energy detector based UWB systems by optimizing the receiver parameters. , 2009, , .		2
170	Error rate and diversity order of multinode cooperative communications in dissimilar Nakagami fading channels. IET Communications, 2009, 3, 1843.	1.5	2
171	Derivation of circuit specification for the UWB impulse radio transceivers. , 2010, , .		2
172	Q-ary LDPC decoder with euclidean-distance-based sorting criterion. IEEE Communications Letters, 2010, 14, 444-446.	2.5	2
173	Construction of high-rate QC-LDPC codes. , 2011, , .		2
174	Increasing the local girth of irregular low-density parity-check codes based on degree-spectrum analysis. IET Communications, 2011, 5, 1506-1511.	1.5	2
175	Simulation of LDPC convolutional decoders with CPU and GPU. , 2012, , .		2
176	A class of doubly-generalized LDPC codes. , 2013, , .		2
177	Relay cooperation schemes for the multiple access relay channel: Compute-and-forward and successive interference cancellation. , 2014, , .		2
178	Pairedâ€relayâ€selection schemes for twoâ€way relaying with network coding. IET Communications, 2015, 9, 888-896.	1.5	2
179	Fullâ€duplex OFDMA multiâ€user cellular systems: resource allocation and user pairing. Transactions on Emerging Telecommunications Technologies, 2017, 28, e3005.	2.6	2
180	Random-permutation-matrix-based cyclically-coupled LDPC codes. , 2017, , .		2

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181	Tree-Permutation-Matrix Based LDPC Codes. IEEE Transactions on Circuits and Systems II: Express Briefs, 2018, 65, 1019-1023.	2.2	2
182	Semi-Flocking-Controlled Mobile Sensor Networks for Tracking Targets with Different Priorities. , 2019, , .		2
183	Observing Stock Market Fluctuation in Networks of Stocks. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2009, , 2099-2108.	0.2	2
184	Novel types of cyclically-coupled quasi-cyclic LDPC block codes. , 2016, , .		2
185	Investigation and Optimization of Pin Multiplexing in High-Level Synthesis. , 2018, , .		2
186	Design and Optimization of Protograph LDPC-Coded Multipulse PPM Systems Over Poisson Channels. IEEE Transactions on Vehicular Technology, 2022, 71, 9586-9601.	3.9	2
187	The proposed SSBLT standard doubles the VME64 transfer rate. IEEE Micro, 1992, 12, 64-71.	1.8	1
188	Waveform relaxation analysis of cascaded transmission lines. International Journal of Electronics, 1994, 76, 483-495.	0.9	1
189	Degradation on the Performance of MIMO System Under a Correlated Sub-Channels Condition. , 0, , .		1
190	Testing System for Measuring and Calibrating the Transmission Power of EDGE Mobiles. , 0, , .		1
191	Techniques for Improving Block Error Rate of LDPC Decoders. , 0, , .		1
192	Analytical Performance of M-ary TH-PPM UWB Systems with Multiple Users. , 2007, , .		1
193	Impacts of UWB Interference on Selected Radio Systems used by the Government. , 2008, , .		1
194	Simulation and implementation of a single-polarization smart antenna for TD-SCDMA system. , 2009, , .		1
195	On the design of low complexity decoding (LCD) network codes. , 2010, , .		1
196	Multiple-Stream Code-Multiplexed Transmitted-Reference Ultra-Wideband Systems. , 2010, , .		1
197	Spectrum Sensing Gain Analysis in Cooperative Cognitive Radio Networks. , 2010, , .		1
198	Effect of assortativity on traffic performance in scale-free networks. , 2012, , .		1

#	Article	IF	Citations
199	Analysis of the Topological Characteristics of a Protein-Protein Interaction Network. , 2012, , .		1
200	Optimisation of throughput in cognitive radio networks: an analysis at the data link layer. IET Communications, 2012, 6, 1.	1.5	1
201	Turn your baseband Matlab simulator into a fully functional, 2.4-GHz, operating FM-DCSK transceiver using SDE platform. , 2013, , .		1
202	A fast low‐density parity‐check code simulator based on compressed parity‐check matrices. Wireless Communications and Mobile Computing, 2013, 13, 663-670.	0.8	1
203	An adaptive routing algorithm for load balancing in communication networks. , 2013, , .		1
204	D-GLDPC codes with 3-D single parity-check product codes as super check nodes. , 2014, , .		1
205	Generation of Luby Transform Codes with Low Redundancy. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2015, 25, 1550072.	0.7	1
206	Log-average-SNR ratio and cooperative spectrum sensing. Journal of Communications and Networks, 2016, 18, 311-319.	1.8	1
207	Energy efficiency optimisation in full‐duplex relay‰systems. Transactions on Emerging Telecommunications Technologies, 2017, 28, e2926.	2.6	1
208	Design of a high-throughput low-latency extended golay decoder. , 2017, , .		1
209	Design and error performance of punctured hadamard codes. , 2017, , .		1
210	Reducing the bit-mapping search space of a bit-interleaved polar-coded modulation system. , 2017, , .		1
211	A generalized systematic comma free code. , 2017, , .		1
212	An Approach to Evaluating the Number of Closed Paths in an All-One Base Matrix. IEEE Access, 2018, 6, 22332-22340.	2.6	1
213	Predictive Compositional Method to Design and Reoptimize Complex Behavioral Dataflows. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2020, 39, 2615-2627.	1.9	1
214	Chaos-Based Modulation and Demodulation Techniques. , 2005, , 125-172.		1
215	Duplicated zigzag decodable fountain codes with the unequal error protection property. Computer Communications, 2022, 185, 66-78.	3.1	1
216	Smooth Deep Reinforcement Learning for Power Control for Spectrum Sharing in Cognitive Radios. IEEE Transactions on Wireless Communications, 2022, 21, 10621-10632.	6.1	1

#	Article	IF	Citations
217	Power control mixing C/I balancing and constant-received signal strength in CDMA mobile communications system. Electronics Letters, 1999, 35, 1609.	0.5	0
218	ANALYSIS AND SIMULATION OF BUFFERED B-NETWORKS. Journal of Circuits, Systems and Computers, 1999, 09, 199-221.	1.0	0
219	Protocol for measuring performance of demodulator in W-CDMA user equipment. Electronics Letters, 2004, 40, 1005.	0.5	0
220	Design Template and Measurements for Antenna Planning in an Indoor Radio Environment at 1800 MHz. International Journal of Wireless Information Networks, 2004, 11, 105-113.	1.8	0
221	Alternative protocol for measuring multiple power level of GSMâˆˆGPRS mobiles. Electronics Letters, 2004, 40, 1128.	0.5	0
222	Cross-layer design scheme for multihop communications. Electronics Letters, 2007, 43, 762.	0.5	0
223	Passband Simulations of Interference Impacts in the Presence of Ultra Wideband and Narrowband Systems. International Conference on Advanced Communication Technology, 2008, , .	0.0	0
224	Traffic analysis of a mobile cellular system based on a scale-free user network and a power-law-distributed mobility model. , 2008, , .		0
225	An efficient data collecting network structure in wireless sensor networks. , 2008, , .		0
226	A precoding scheme with generation crossing for network coding. , 2009, , .		0
227	Accelerated Q-Ary Low-Density Parity-Check Codes Decoding with Message Selection. , 2009, , .		0
228	Modeling telephone call networks with group structure from a complex network perspective. , 2009, , .		0
229	Differentiating trapping sets with the same label [w; u. , 2009, , .		0
230	Performance improvement of UWB autocorrelation receivers by minimizing the energy capture time. , 2009, , .		0
231	Network coding for resilient peer-to-peer networks. , 2009, , .		0
232	Performance improvement of autocorrelation detector used in UWB impulse radio. , 2010, , .		0
233	Gated threshold compensated noncoherent PPM receiver for UWB impulse radio. , 2010, , .		0
234	Constructing high-rate scale-free LDPC codes. , 2010, , .		0

#	Article	IF	Citations
235	The phase-shifting network design of electronically-steered smart antennas for TD-SCDMA systems. , 2010, , .		0
236	Future Design of Channel Codes: A Complex Network Perspective. , 2011, , .		0
237	IMPACT OF TOPOLOGY ON THE MAXIMUM MULTICAST THROUGHPUT IN COMMUNICATION NETWORKS WITH NETWORK CODING. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2011, 21, 2741-2748.	0.7	0
238	Improving the coverage of ultra wideband impulse radio by pulse compression. , 2012, , .		0
239	Concept of Node Usage Probability for Analysis and Design of Communication Networks. , 2012, , .		0
240	From simulations to field tests: PXI-based software defined wireless platform for performance evaluation of FM-DCSK. , 2013, , .		0
241	Selection of spatially-distributed relays for two-way relaying with network coding. , 2013, , .		0
242	Exact split information function for SPC. , 2014, , .		0
243	Average Transmit Power Gain of MIMO Fading Channels Over SISO AWGN Channels. Wireless Personal Communications, 2015, 84, 719-728.	1.8	0
244	Generalized Systematic Comma-Free Code. IEEE Access, 2018, 6, 56800-56814.	2.6	0
245	Codebook Design Optimization for Sparsified Distribution Converter in Davey-Mackay Watermark Codes over Channels with Synchronization Errors. , 2019, , .		0
246	Relay selection for spatially random fullâ€duplex cooperative nonâ€orthogonal multiple access networks. IET Communications, 2021, 15, 1060-1075.	1.5	0
247	Performance Comparison of UWB Chirp IR TR and UWB FM-DCSK TR Systems Implemented with Autocorrelation Receiver. IEICE Proceeding Series, 2014, 1, 793-796.	0.0	0
248	Basics of communications using chaos. , 2018, , 104-142.		0