

Francis C M Lau

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

199
papers

3,119
citations

30
h-index

49
g-index

250
ext. papers

3,983
ext. citations

4.3
avg, IF

5.59
L-index

#	Paper	IF	Citations
199	Duplicated zigzag decodable fountain codes with the unequal error protection property. <i>Computer Communications</i> , 2022 , 185, 66-78	5.1	
198	Design and Optimization of Protograph LDPC-Coded Multipulse PPM Systems over Poisson Channels. <i>IEEE Transactions on Vehicular Technology</i> , 2022 , 1-1	6.8	
197	Irregular-Mapped Protograph LDPC-Coded Modulation: A Bandwidth-Efficient Solution for 6G-Enabled Mobile Networks. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2021 , 1-14	6.1	20
196	Layered Decoding for Protograph-Based Low-Density Parity-Check Hadamard Codes. <i>IEEE Communications Letters</i> , 2021 , 25, 1776-1780	3.8	4
195	Data storage using peptide sequences. <i>Nature Communications</i> , 2021 , 12, 4242	17.4	4
194	Relay selection for spatially random full-duplex cooperative non-orthogonal multiple access networks. <i>IET Communications</i> , 2021 , 15, 1060-1075	1.3	
193	. <i>IEEE Transactions on Communications</i> , 2021 , 69, 4998-5013	6.9	5
192	An Ultimate-Shannon-Limit-Approaching Gbps Throughput Encoder/Decoder System. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2020 , 67, 2169-2173	3.5	4
191	Predictive Compositional Method to Design and Reoptimize Complex Behavioral Dataflows. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , 2020 , 39, 2615-2627	2.5	1
190	Protograph-based LDPC-Hadamard Codes 2020 ,		3
189	Joint Carrier-Code Index Modulation Aided M -Ary Differential Chaos Shift Keying System. <i>IEEE Transactions on Vehicular Technology</i> , 2020 , 69, 15486-15499	6.8	6
188	Analysis and Improvement of Error-Floor Performance for JSCC Scheme Based on Double Protograph LDPC Codes. <i>IEEE Transactions on Vehicular Technology</i> , 2020 , 69, 14316-14329	6.8	7
187	Path-Planning-Enabled Semiflocking Control for Multitarget Monitoring in Mobile Sensor Networks. <i>IEEE Transactions on Industrial Informatics</i> , 2020 , 16, 4778-4787	11.9	4
186	Analysis and Optimization of Tail-Biting Spatially Coupled Protograph LDPC Codes for BICM-ID Systems. <i>IEEE Transactions on Vehicular Technology</i> , 2020 , 69, 390-404	6.8	15
185	Notice of Violation of IEEE Publication Principles: Construction of GC-Balanced DNA With Deletion/Insertion/Mutation Error Correction for DNA Storage System. <i>IEEE Access</i> , 2020 , 8, 140972-140980	3.5	5
184	Hardware Design of Concatenated Zigzag Hadamard Encoder/Decoder System With High Throughput. <i>IEEE Access</i> , 2020 , 8, 165298-165306	3.5	3
183	Adaptive 2-D Scheduling-Based Nonbinary Majority-Logic Decoding for NAND Flash Memory. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2020 , 67, 1349-1353	3.5	2

182	Root-Protograph-Based BICM-ID: A Reliable and Efficient Transmission Solution for Block-Fading Channels. <i>IEEE Transactions on Communications</i> , 2019 , 67, 5921-5939	6.9	13
181	The Design of Vertical RS-CRC and LDPC Code for Ship-Based Satellite Communications On-the-Move. <i>IEEE Access</i> , 2019 , 7, 44977-44986	3.5	4
180	Page-Based Dynamic Partitioning Scheduling for LDPC Decoding in MLC NAND Flash Memory. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2019 , 66, 2082-2086	3.5	3
179	Temnothorax albipennis migration inspired semi-flocking control for mobile sensor networks. <i>Chaos</i> , 2019 , 29, 063113	3.3	1
178	Performance Analysis of Cooperative Non-Orthogonal Multiple Access Based on Spectrum Sensing. <i>IEEE Transactions on Vehicular Technology</i> , 2019 , 68, 6855-6866	6.8	15
177	Accelerating FPGA Prototyping through Predictive Model-Based HLS Design Space Exploration 2019 ,		12
176	. <i>IEEE Vehicular Technology Magazine</i> , 2019 , 14, 85-93	9.9	91
175	Minimum-Polytope-Based Linear Programming Decoder for LDPC Codes via ADMM Approach. <i>IEEE Wireless Communications Letters</i> , 2019 , 8, 1032-1035	5.9	9
174	Energy-Efficient Semi-Flocking Control of Mobile Sensor Networks on Rough Terrains. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2019 , 66, 622-626	3.5	3
173	Full-Duplex Relaying Cognitive Radio Network With Cooperative Nonorthogonal Multiple Access. <i>IEEE Systems Journal</i> , 2019 , 13, 3897-3908	4.3	21
172	Joint Shuffled Scheduling Decoding Algorithm for DP-LDPC Codes-Based JSCC Systems. <i>IEEE Wireless Communications Letters</i> , 2019 , 8, 1696-1699	5.9	5
171	Exploiting Full-Duplex Two-Way Relay Cooperative Non-Orthogonal Multiple Access. <i>IEEE Transactions on Communications</i> , 2019 , 67, 2716-2729	6.9	44
170	. <i>IEEE Transactions on Communications</i> , 2018 , 66, 1970-1980	6.9	40
169	Tree-Permutation-Matrix Based LDPC Codes. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2018 , 65, 1019-1023	3.5	2
168	Design Guidelines of Low-Density Parity-Check Codes for Magnetic Recording Systems. <i>IEEE Communications Surveys and Tutorials</i> , 2018 , 20, 1574-1606	37.1	33
167	An Approach to Evaluating the Number of Closed Paths in an All-One Base Matrix. <i>IEEE Access</i> , 2018 , 6, 22332-22340	3.5	
166	Joint Optimization of Protograph LDPC Code Pair for Joint Source and Channel Coding. <i>IEEE Transactions on Communications</i> , 2018 , 66, 3255-3267	6.9	29
165	Analysis of metro network performance from a complex network perspective. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018 , 492, 553-563	3.3	32

164	Design and Analysis of Punctured Terminated Spatially Coupled Protograph LDPC Codes With Small Coupling Lengths. <i>IEEE Access</i> , 2018 , 6, 36723-36731	3.5	8
163	Semi-Flocking-Controlled Mobile Sensor Networks for Dynamic Area Coverage and Multiple Target Tracking. <i>IEEE Sensors Journal</i> , 2018 , 18, 8883-8892	4	10
162	Investigation and Optimization of Pin Multiplexing in High-Level Synthesis 2018 ,		1
161	Basics of communications using chaos 2018 , 104-142		
160	Generalized Systematic Comma-Free Code. <i>IEEE Access</i> , 2018 , 6, 56800-56814	3.5	
159	Path Planning for Semi-Flocking-Controlled Mobile Sensor Networks on Mobility Maps 2018 ,		3
158	A Turbo-Hadamard Encoder/Decoder System with Hundreds of Mbps Throughput 2018 ,		5
157	Improved online fountain codes. <i>IET Communications</i> , 2018 , 12, 2297-2304	1.3	10
156	Fixed-Point Implementation of Convolutional Neural Networks for Image Classification 2018 ,		8
155	SSCSMA-based random relay selection scheme for large-scale relay networks. <i>Computer Communications</i> , 2018 , 127, 13-19	5.1	1
154	Energy efficiency optimisation in full-duplex relay systems. <i>Transactions on Emerging Telecommunications Technologies</i> , 2017 , 28, e2926	1.9	1
153	Full-duplex OFDMA multi-user cellular systems: resource allocation and user pairing. <i>Transactions on Emerging Telecommunications Technologies</i> , 2017 , 28, e3005	1.9	2
152	MaxMin Weighted Downlink SINR With Uplink SINR Constraints for Full-Duplex MIMO Systems. <i>IEEE Transactions on Signal Processing</i> , 2017 , 65, 3277-3292	4.8	6
151	Random-permutation-matrix-based cyclically-coupled LDPC codes 2017 ,		2
150	2017 ,		3
149	. <i>IEEE Transactions on Vehicular Technology</i> , 2017 , 66, 6037-6049	6.8	8
148	A consistent heuristic for efficient path planning on mobility maps 2017 ,		5
147	Design and error performance of punctured hadamard codes 2017 ,		1

146	Reducing the bit-mapping search space of a bit-interleaved polar-coded modulation system 2017 ,		1
145	. <i>IEEE Transactions on Wireless Communications</i> , 2016 , 15, 913-927	9.6	37
144	A Square-Constellation-Based M^M -Ary DCSK Communication System. <i>IEEE Access</i> , 2016 , 4, 6295-6303	3.5	36
143	Finite-length extrinsic information transfer analysis and design of protograph low-density parity-check codes for ultra-high-density magnetic recording channels. <i>IET Communications</i> , 2016 , 10, 1303-1311	1.3	2
142	Rate-Compatible Root-Protograph LDPC Codes for Quasi-Static Fading Relay Channels. <i>IEEE Transactions on Vehicular Technology</i> , 2016 , 65, 2741-2747	6.8	22
141	Rapid prototyping of multi-mode QC-LDPC decoder for 802.11n/ac standard 2016 ,		7
140	A 3.0 Gb/s Throughput Hardware-Efficient Decoder for Cyclically-Coupled QC-LDPC Codes. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2016 , 63, 134-145	3.9	20
139	Parameter Identification of Chaotic Systems by a Novel Dual Particle Swarm Optimization. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2016 , 26, 1650024	2	7
138	Resource Allocation for Multiuser OFDMA Hybrid Full/Half-Duplex Relaying Systems With Direct Links. <i>IEEE Transactions on Vehicular Technology</i> , 2016 , 65, 6101-6118	6.8	15
137	On using the cyclically-coupled QC-LDPC codes in future SSDs 2016 ,		3
136	Multilevel code-shifted differential-chaos-shift-keying system. <i>IET Communications</i> , 2016 , 10, 1189-1195	1.3	59
135	A Survey on DCSK-Based Communication Systems and Their Application to UWB Scenarios. <i>IEEE Communications Surveys and Tutorials</i> , 2016 , 18, 1804-1837	37.1	80
134	Log-average-SNR ratio and cooperative spectrum sensing. <i>Journal of Communications and Networks</i> , 2016 , 18, 311-319	4.1	0
133	The Feasibility of Mobile Physical-Layer Network Coding with BPSK Modulation. <i>IEEE Transactions on Vehicular Technology</i> , 2016 , 1-1	6.8	6
132	Generation of Luby Transform Codes with Low Redundancy. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2015 , 25, 1550072	2	1
131	Concept of Node Usage Probability From Complex Networks and Its Applications to Communication Network Design. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2015 , 62, 1195-1204	3.9	20
130	A distributed market framework for mobile data offloading 2015 ,		3
129	Average Transmit Power Gain of MIMO Fading Channels Over SISO AWGN Channels. <i>Wireless Personal Communications</i> , 2015 , 84, 719-728	1.9	

128	Paired-relay-selection schemes for two-way relaying with network coding. <i>IET Communications</i> , 2015 , 9, 888-896	1.3	2
127	A Survey on Protograph LDPC Codes and Their Applications. <i>IEEE Communications Surveys and Tutorials</i> , 2015 , 17, 1989-2016	37.1	85
126	A parallel-routing network for reliability inferences of single-parity-check decoder 2015 ,		15
125	Mitigating Doppler effects on physical-layer network coding in VANET 2015 ,		4
124	Optimizing Performance of Communication Networks: An Application of Network Science. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2015 , 62, 95-99	3.5	20
123	Effective routing algorithms based on node usage probability from a complex network perspective 2014 ,		3
122	2014 ,		2
121	Improved Min-Sum Decoding for 2-D Intersymbol Interference Channels. <i>IEEE Transactions on Magnetics</i> , 2014 , 50, 1-4	2	4
120	A high throughput Gaussian noise generator 2014 ,		4
119	Implementation of Decoders for LDPC Block Codes and LDPC Convolutional Codes Based on GPUs. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2014 , 25, 663-672	3.7	9
118	On the Diversity Order of a General Cooperative Relaying Communication System. <i>Wireless Personal Communications</i> , 2014 , 77, 605-631	1.9	5
117	Implementation of FM-DCSK modulation scheme on USRP platform based on complex envelope. <i>IEICE Proceeding Series</i> , 2014 , 1, 797-800		3
116	Performance Comparison of UWB Chirp IR TR and UWB FM-DCSK TR Systems Implemented with Autocorrelation Receiver. <i>IEICE Proceeding Series</i> , 2014 , 1, 793-796		
115	Multichannel Opportunistic Access by Overhearing Primary ARQ Messages. <i>IEEE Transactions on Vehicular Technology</i> , 2013 , 62, 3486-3492	6.8	13
114	Outage Performance and Cooperative Diversity Under Amplify and Forward Relaying in Cognitive Radio Networks. <i>Wireless Personal Communications</i> , 2013 , 69, 891-914	1.9	4
113	Analysis of Communication Network Performance From a Complex Network Perspective. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2013 , 60, 3303-3316	3.9	52
112	One Analog STBC-DCSK Transmission Scheme not Requiring Channel State Information. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2013 , 60, 1027-1037	3.9	54
111	Decoding Generalized Joint Channel Coding and Physical Network Coding in the LLR Domain. <i>IEEE Signal Processing Letters</i> , 2013 , 20, 121-124	3.2	9

110	A fast low-density parity-check code simulator based on compressed parity-check matrices. <i>Wireless Communications and Mobile Computing</i> , 2013 , 13, 663-670	1.9	1
109	An efficient and secure medical image protection scheme based on chaotic maps. <i>Computers in Biology and Medicine</i> , 2013 , 43, 1000-10	7	120
108	A 2.0 Gb/s Throughput Decoder for QC-LDPC Convolutional Codes. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2013 , 60, 1857-1869	3.9	30
107	Diophantine Approach to Blind Interference Alignment of Homogeneous K-User 2x1 MISO Broadcast Channels. <i>IEEE Journal on Selected Areas in Communications</i> , 2013 , 31, 2141-2153	14.2	14
106	Optimisation of throughput in cognitive radio networks: an analysis at the data link layer. <i>IET Communications</i> , 2012 , 6, 1	1.3	1
105	Design of Protograph LDPC Codes for Partial Response Channels. <i>IEEE Transactions on Communications</i> , 2012 , 60, 2809-2819	6.9	34
104	Generalized LDPC code with single-parity-check product constraints at super check nodes 2012 ,		2
103	Analysis of the Topological Characteristics of a Protein-Protein Interaction Network 2012 ,		1
102	A fast searching method for the construction of QC-LDPC codes with large girth 2012 ,		7
101	Theory and Application of Software Defined Electronics: Design Concepts for the Next Generation of Telecommunications and Measurement Systems. <i>IEEE Circuits and Systems Magazine</i> , 2012 , 12, 8-34	3.2	11
100	Parallel decoding of LDPC convolutional codes using OpenMP and GPU 2012 ,		2
99	2012 ,		2
98	Performance of cooperative spectrum sensing over fading channels with low signal-to-noise ratio. <i>IET Communications</i> , 2012 , 6, 1988-1999	1.3	4
97	Performance analysis of protograph-based low-density parity-check codes with spatial diversity. <i>IET Communications</i> , 2012 , 6, 2941-2948	1.3	18
96	A layered QC-LDPC decoder architecture for high speed communication system 2012 ,		21
95	SCALE-FREE LUBY TRANSFORM CODES. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2012 , 22, 1250094	2	4
94	Influential factors for decimetre level positioning using ultra wide band technology. <i>Survey Review</i> , 2012 , 44, 37-44	0.9	4
93	A Delay-Aware Data Collection Network Structure for Wireless Sensor Networks. <i>IEEE Sensors Journal</i> , 2011 , 11, 699-710	4	61

92	Efficient Decoding of QC-LDPC Codes Using GPUs. <i>Lecture Notes in Computer Science</i> , 2011 , 294-305	0.9	5
91	Increasing the local girth of irregular low-density parity-check codes based on degree-spectrum analysis. <i>IET Communications</i> , 2011 , 5, 1506-1511	1.3	1
90	Optimisation of low-density parity-check codes with deterministic unequal error protection properties. <i>IET Communications</i> , 2011 , 5, 1560-1565	1.3	8
89	Performance evaluation of irregular low-density parity-check codes at high signal-to-noise ratio. <i>IET Communications</i> , 2011 , 5, 1587-1596	1.3	4
88	A Clustering Algorithm for Wireless Sensor Networks Based on Social Insect Colonies. <i>IEEE Sensors Journal</i> , 2011 , 11, 711-721	4	38
87	Asymptotic Analysis of Opportunistic Relaying Based on the Max-Generalized-Mean Selection Criterion. <i>IEEE Transactions on Wireless Communications</i> , 2011 , 10, 1050-1057	9.6	9
86	Construction of high-rate QC-LDPC codes 2011 ,		2
85	IMPACT OF TOPOLOGY ON THE MAXIMUM MULTICAST THROUGHPUT IN COMMUNICATION NETWORKS WITH NETWORK CODING. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2011 , 21, 2741-2748	2	
84	Derivation of circuit specification for the UWB impulse radio transceivers 2010 ,		1
83	Diversity order for amplify-and-forward dual-hop systems with fixed-gain relay under Nakagami fading channels. <i>IEEE Transactions on Wireless Communications</i> , 2010 , 9, 92-98	9.6	40
82	BP-Maxwell Decoding Algorithm for LDPC Codes over AWGN Channels 2010 ,		4
81	Feasibility of UWB radio: Impulse radio versus chaos-based approach 2010 ,		5
80	Multiple-Stream Code-Multiplexed Transmitted-Reference Ultra-Wideband Systems 2010 ,		1
79	Application of complex networks to coding. <i>IEEE Circuits and Systems Magazine</i> , 2010 , 10, 38-47	3.2	2
78	Energy Consumption in Wireless Sensor Networks under Varying Sensor Node Traffic 2010 ,		3
77	A network perspective of the stock market. <i>Journal of Empirical Finance</i> , 2010 , 17, 659-667	2.7	214
76	A class of QC-LDPC codes with low encoding complexity and good error performance. <i>IEEE Communications Letters</i> , 2010 , 14, 169-171	3.8	26
75	Q-ary LDPC decoder with euclidean-distance-based sorting criterion. <i>IEEE Communications Letters</i> , 2010 , 14, 444-446	3.8	2

74	High-SNR Analysis of Opportunistic Relaying Based on the Maximum Harmonic Mean Selection Criterion. <i>IEEE Signal Processing Letters</i> , 2010 , 17, 719-722	3.2	27
73	Performance Bounds of Opportunistic Cooperative Communications With CSI-Assisted Amplify-and-Forward Relaying and MRC Reception. <i>IEEE Transactions on Vehicular Technology</i> , 2010 , 59, 2159-2165	6.8	9
72	An Energy-Aware Scheduling Scheme for Wireless Sensor Networks. <i>IEEE Transactions on Vehicular Technology</i> , 2010 , 59, 3427-3444	6.8	35
71	. <i>IEEE Transactions on Communications</i> , 2010 , 58, 2823-2834	6.9	39
70	Decode-and-Forward Two-Way Relaying with Network Coding and Opportunistic Relay Selection. <i>IEEE Transactions on Communications</i> , 2010 , 58, 3070-3076	6.9	89
69	Outage Performance of Cooperative Communication Systems Using Opportunistic Relaying and Selection Combining Receiver. <i>IEEE Signal Processing Letters</i> , 2009 , 16, 113-116	3.2	18
68	Outage Performance of Cooperative Communication Systems Using Opportunistic Relaying and Selection Combining Receiver. <i>IEEE Signal Processing Letters</i> , 2009 , 16, 237-240	3.2	28
67	Complex-Network Modeling of a Call Network. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2009 , 56, 416-429	3.9	17
66	. <i>IEEE Transactions on Wireless Communications</i> , 2009 , 8, 5455-5460	9.6	3
65	Simulation and implementation of dual-polarization TD-SCDMA smart antennas 2009 ,		1
64	Asymptotic Analysis of Opportunistic Relaying Protocols. <i>IEEE Transactions on Wireless Communications</i> , 2009 , 8, 3915-3920	9.6	39
63	Evaluation of the Extremely Low Block Error Rate of Irregular LDPC Codes 2009 ,		1
62	A scheduling scheme for wireless sensor networks based on social insect colonies. <i>IET Communications</i> , 2009 , 3, 714	1.3	4
61	Error rate and diversity order of multinode cooperative communications in dissimilar Nakagami fading channels. <i>IET Communications</i> , 2009 , 3, 1843	1.3	2
60	Application of complex-network theories to the design of short-length low-density-parity-check codes. <i>IET Communications</i> , 2009 , 3, 1569	1.3	8
59	Observing Stock Market Fluctuation in Networks of Stocks. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2009 , 2099-2108	0.2	1
58	Analytical performance of M-ary time-hopping orthogonal PPM UWB systems under multiple access interference. <i>IEEE Transactions on Communications</i> , 2008 , 56, 1780-1784	6.9	8
57	Two incremental relaying protocols for cooperative networks. <i>IET Communications</i> , 2008 , 2, 1272	1.3	23

56	A Bio-Inspired Scheduling Scheme for Wireless Sensor Networks. <i>IEEE Vehicular Technology Conference</i> , 2008 ,	0.1	8
55	OSCILLATION AND PERIOD DOUBLING IN TCP/RED SYSTEM: ANALYSIS AND VERIFICATION. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2008 , 18, 1459-1475	2	10
54	Study of bifurcation behavior of two-dimensional turbo product code decoders. <i>Chaos, Solitons and Fractals</i> , 2008 , 36, 500-511	9.3	2
53	Cross-layer design scheme for multihop communications. <i>Electronics Letters</i> , 2007 , 43, 762	1.1	
52	Modeling the Telephone Call Network 2007 ,		1
51	Closed-form expressions for symbol error probability of orthogonal space-time block codes over Rician-Nakagami channels. <i>IET Communications</i> , 2007 , 1, 655	1.3	2
50	A Novel Approach to Analyzing V-BLAST MIMO Systems with Two Transmit Antennas. <i>IEEE Transactions on Wireless Communications</i> , 2007 , 6, 1591-1595	9.6	6
49	Performance analysis for MIMO systems using zero forcing detector over fading channels. <i>IET Communications</i> , 2006 , 153, 74		4.1
48	STUDY OF BIFURCATION BEHAVIOR OF LDPC DECODERS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2006 , 16, 3435-3449	2	1
47	Generalized correlation-delay-shift-keying scheme for noncoherent chaos-based communication systems. <i>IEEE Transactions on Circuits and Systems Part 1: Regular Papers</i> , 2006 , 53, 712-721		4.8
46	Analysis of telephone network traffic based on a complex user network. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2006 , 368, 583-594	3.3	11
45	Effect of clustering in a complex user network on the telephone traffic. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2006 , 371, 745-753	3.3	2
44	Generalization of Waveform Communications: The Fourier Analyzer Approach. <i>Circuits, Systems, and Signal Processing</i> , 2005 , 24, 451-474	2.2	3
43	Performance Limit of Chaotic Digital Waveform Communication Systems: Approach of Maximizing a Posteriori Probability. <i>Circuits, Systems, and Signal Processing</i> , 2005 , 24, 639-655	2.2	4
42	Scale-free user-network approach to telephone network traffic analysis. <i>Physical Review E</i> , 2005 , 72, 026116	2.4	14
41	PERFORMANCE OF FREQUENCY-MODULATED DIFFERENTIAL-CHAOS-SHIFT-KEYING COMMUNICATION SYSTEM OVER MULTIPATH FADING CHANNELS WITH DELAY SPREAD. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2005 , 15, 4027-4033	2	3
40	Chaos-Based Modulation and Demodulation Techniques 2005 , 125-172		1
39	PERFORMANCE ANALYSIS OF MULTIPLE ACCESS CHAOTIC-SEQUENCE SPREAD-SPECTRUM COMMUNICATION SYSTEMS USING PARALLEL INTERFERENCE CANCELLATION RECEIVERS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2004 , 14, 3633-3646	2	1

38	Protocol for measuring performance of demodulator in W-CDMA user equipment. <i>Electronics Letters</i> , 2004 , 40, 1005	1.1	
37	Design Template and Measurements for Antenna Planning in an Indoor Radio Environment at 1800 MHz. <i>International Journal of Wireless Information Networks</i> , 2004 , 11, 105-113	1.9	
36	Performance of Chaos-Based Digital Communication Systems in the Presence of a Pulsed-Noise Jammer. <i>Circuits, Systems, and Signal Processing</i> , 2004 , 23, 169-194	2.2	4
35	Reconstruction of chaotic signals with application to channel equalization in chaos-based communication systems. <i>International Journal of Communication Systems</i> , 2004 , 17, 217-232	1.7	4
34	A multiple access scheme for chaos-based digital communication systems utilizing transmitted reference. <i>IEEE Transactions on Circuits and Systems Part 1: Regular Papers</i> , 2004 , 51, 1868-1878		30
33	Coexistence of chaos-based and conventional digital communication systems of equal bit rate. <i>IEEE Transactions on Circuits and Systems Part 1: Regular Papers</i> , 2004 , 51, 391-408		22
32	Performance of differential chaos-shift-keying digital communication systems over a multipath fading channel with delay spread. <i>IEEE Transactions on Circuits and Systems Part 2: Express Briefs</i> , 2004 , 51, 680-684		135
31	AN APPROACH TO CALCULATE THE BIT ERROR RATES OF MULTIPLE ACCESS CHAOTIC-SEQUENCE SPREAD-SPECTRUM COMMUNICATION SYSTEMS EMPLOYING MULTI-USER DETECTORS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2004 , 14, 183-206	2	3
30	Exact analytical bit error rates for multiple access chaos-based communication systems. <i>IEEE Transactions on Circuits and Systems Part 2: Express Briefs</i> , 2004 , 51, 473-481		51
29	Alternative protocol for measuring multiple power level of GSM GPRS mobiles. <i>Electronics Letters</i> , 2004 , 40, 1128	1.1	
28	APPLYING RESONANT PARAMETRIC PERTURBATION TO CONTROL CHAOS IN THE BUCK DC/DC CONVERTER WITH PHASE SHIFT AND FREQUENCY MISMATCH CONSIDERATIONS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2003 , 13, 3459-3471	2	62
27	APPROXIMATE-OPTIMAL DETECTOR FOR CHAOS COMMUNICATION SYSTEMS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2003 , 13, 1329-1335	2	6
26	On Optimal Detection of Noncoherent Chaos-Shift-Keying Signals in a Noisy Environment. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2003 , 13, 1587-1597	2	11
25	A RETURN MAP REGRESSION APPROACH FOR NONCOHERENT DETECTION IN CHAOTIC DIGITAL COMMUNICATIONS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2003 , 13, 685-690	2	7
24	Permutation-based DCSK and multiple-access DCSK systems. <i>IEEE Transactions on Circuits and Systems Part 1: Regular Papers</i> , 2003 , 50, 733-742		53
23	Permutation-Based M-ary Chaotic-Sequence Spread-Spectrum Communication Systems. <i>Circuits, Systems, and Signal Processing</i> , 2003 , 22, 567-577	2.2	11
22	Performance of chaos-based communication systems under the influence of coexisting conventional spread-spectrum systems. <i>IEEE Transactions on Circuits and Systems Part 1: Regular Papers</i> , 2003 , 50, 1475-1481		6
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1 Analytical approach of V-BLAST performance with two transmit antennas 5