Francis C M Lau

List of Publications by Citations

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	A network perspective of the stock market. *Journal of Empirical Finance*, **2010**, 17, 659-667	2.7	214
198	Chaos-Based Digital Communication Systems. *Signals and Communication Technology*, **2003**,	0.5	194
197	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		135
196	An efficient and secure medical image protection scheme based on chaotic maps. *Computers in Biology and Medicine*, **2013**, 43, 1000-10	7	120
195	. *IEEE Vehicular Technology Magazine*, **2019**, 14, 85-93	9.9	91
194	Decode-and-Forward Two-Way Relaying with Network Coding and Opportunistic Relay Selection. *IEEE Transactions on Communications*, **2010**, 58, 3070-3076	6.9	89
193	A Survey on Protograph LDPC Codes and Their Applications. *IEEE Communications Surveys and Tutorials*, **2015**, 17, 1989-2016	37.1	85
192	A Survey on DCSK-Based Communication Systems and Their Application to UWB Scenarios. *IEEE Communications Surveys and Tutorials*, **2016**, 18, 1804-1837	37.1	80
191	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	2	62
190	A Delay-Aware Data Collection Network Structure for Wireless Sensor Networks. *IEEE Sensors Journal*, **2011**, 11, 699-710	4	61
189	Multilevel code-shifted differential-chaos-shift-keying system. *IET Communications*, **2016**, 10, 1189-1195	1.3	59
188	One Analog STBC-DCSK Transmission Scheme not Requiring Channel State Information. *IEEE Transactions on Circuits and Systems I: Regular Papers*, **2013**, 60, 1027-1037	3.9	54
187	Permutation-based DCSK and multiple-access DCSK systems. *IEEE Transactions on Circuits and Systems Part 1: Regular Papers*, **2003**, 50, 733-742		53
186	Analysis of Communication Network Performance From a Complex Network Perspective. *IEEE Transactions on Circuits and Systems I: Regular Papers*, **2013**, 60, 3303-3316	3.9	52
185	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		51
184	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		48
183	Exploiting Full-Duplex Two-Way Relay Cooperative Non-Orthogonal Multiple Access. *IEEE Transactions on Communications*, **2019**, 67, 2716-2729	6.9	44

182	Performance analysis for MIMO systems using zero forcing detector over fading channels. *IET Communications*, **2006**, 153, 74		41
181	. *IEEE Transactions on Communications*, **2018**, 66, 1970-1980	6.9	40
180	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	9.6	40
179	Asymptotic Analysis of Opportunistic Relaying Protocols. *IEEE Transactions on Wireless Communications*, **2009**, 8, 3915-3920	9.6	39
178	. *IEEE Transactions on Communications*, **2010**, 58, 2823-2834	6.9	39
177	A Clustering Algorithm for Wireless Sensor Networks Based on Social Insect Colonies. *IEEE Sensors Journal*, **2011**, 11, 711-721	4	38
176	. *IEEE Transactions on Wireless Communications*, **2016**, 15, 913-927	9.6	37
175	A Square-Constellation-Based M -Ary DCSK Communication System. *IEEE Access*, **2016**, 4, 6295-6303	3.5	36
174	An Energy-Aware Scheduling Scheme for Wireless Sensor Networks. *IEEE Transactions on Vehicular Technology*, **2010**, 59, 3427-3444	6.8	35
173	Design of Protograph LDPC Codes for Partial Response Channels. *IEEE Transactions on Communications*, **2012**, 60, 2809-2819	6.9	34
172	Design Guidelines of Low-Density Parity-Check Codes for Magnetic Recording Systems. *IEEE Communications Surveys and Tutorials*, **2018**, 20, 1574-1606	37.1	33
171	A multiple-access technique for differential chaos-shift keying. *IEEE Transactions on Circuits and Systems Part 1: Regular Papers*, **2002**, 49, 96-104		33
170	Analysis of metro network performance from a complex network perspective. *Physica A: Statistical Mechanics and Its Applications*, **2018**, 492, 553-563	3.3	32
169	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	3.9	30
168	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		30
167	Analysis of power control and its imperfections in CDMA cellular systems. *IEEE Transactions on Vehicular Technology*, **1999**, 48, 1706-1717	6.8	30
166	Joint Optimization of Protograph LDPC Code Pair for Joint Source and Channel Coding. *IEEE Transactions on Communications*, **2018**, 66, 3255-3267	6.9	29
165	Outage Performance of Cooperative Communication Systems Using Opportunistic Relaying and Selection Combining Receiver. *IEEE Signal Processing Letters*, **2009**, 16, 237-240	3.2	28

164	High-SNR Analysis of Opportunistic Relaying Based on the Maximum Harmonic Mean Selection Criterion. *IEEE Signal Processing Letters*, **2010**, 17, 719-722	3.2	27
163	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		27
162	A class of QC-LDPC codes with low encoding complexity and good error performance. *IEEE Communications Letters*, **2010**, 14, 169-171	3.8	26
161	Two incremental relaying protocols for cooperative networks. *IET Communications*, **2008**, 2, 1272	1.3	23
160	Rate-Compatible Root-Protograph LDPC Codes for Quasi-Static Fading Relay Channels. *IEEE Transactions on Vehicular Technology*, **2016**, 65, 2741-2747	6.8	22
159	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		22
158	Full-Duplex Relaying Cognitive Radio Network With Cooperative Nonorthogonal Multiple Access. *IEEE Systems Journal*, **2019**, 13, 3897-3908	4.3	21
157	A layered QC-LDPC decoder architecture for high speed communication system **2012**,		21
156	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	3.9	20
155	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	3.9	20
154	Optimizing Performance of Communication Networks: An Application of Network Science. *IEEE Transactions on Circuits and Systems II: Express Briefs*, **2015**, 62, 95-99	3.5	20
153	Irregular-Mapped Protograph LDPC-Coded Modulation: A Bandwidth-Efficient Solution for 6G-Enabled Mobile Networks. *IEEE Transactions on Intelligent Transportation Systems*, **2021**, 1-14	6.1	20
152	Outage Performance of Cooperative Communication Systems Using Opportunistic Relaying and Selection Combining Receiver. *IEEE Signal Processing Letters*, **2009**, 16, 113-116	3.2	18
151	Performance analysis of protograph-based low-density parity-check codes with spatial diversity. *IET Communications*, **2012**, 6, 2941-2948	1.3	18
150	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		18
149	Complex-Network Modeling of a Call Network. *IEEE Transactions on Circuits and Systems I: Regular Papers*, **2009**, 56, 416-429	3.9	17
148	Performance Analysis of Cooperative Non-Orthogonal Multiple Access Based on Spectrum Sensing. *IEEE Transactions on Vehicular Technology*, **2019**, 68, 6855-6866	6.8	15
147	Resource Allocation for Multiuser OFDMA Hybrid Full/Half-Duplex Relaying Systems With Direct Links. *IEEE Transactions on Vehicular Technology*, **2016**, 65, 6101-6118	6.8	15

146	A parallel-routing network for reliability inferences of single-parity-check decoder **2015**,		15
145	Analysis and Optimization of Tail-Biting Spatially Coupled Protograph LDPC Codes for BICM-ID Systems. *IEEE Transactions on Vehicular Technology*, **2020**, 69, 390-404	6.8	15
144	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	14.2	14
143	Scale-free user-network approach to telephone network traffic analysis. *Physical Review E*, **2005**, 72, 026116	2.4	14
142	Anti-jamming performance of chaotic digital communication systems. *IEEE Transactions on Circuits and Systems Part 1: Regular Papers*, **2002**, 49, 1486-1494		14
141	Root-Protograph-Based BICM-ID: A Reliable and Efficient Transmission Solution for Block-Fading Channels. *IEEE Transactions on Communications*, **2019**, 67, 5921-5939	6.9	13
140	Multichannel Opportunistic Access by Overhearing Primary ARQ Messages. *IEEE Transactions on Vehicular Technology*, **2013**, 62, 3486-3492	6.8	13
139	Accelerating FPGA Prototyping through Predictive Model-Based HLS Design Space Exploration **2019**,		12
138	OPTIMUM CORRELATOR-TYPE RECEIVER DESIGN FOR CSK COMMUNICATION SYSTEMS. *International Journal of Bifurcation and Chaos in Applied Sciences and Engineering*, **2002**, 12, 1029-1038	2	12
137	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	3.2	11
136	Analysis of telephone network traffic based on a complex user network. *Physica A: Statistical Mechanics and Its Applications*, **2006**, 368, 583-594	3.3	11
135	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	2	11
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131	Improved online fountain codes. *IET Communications*, **2018**, 12, 2297-2304	1.3	10
130	Minimum-Polytope-Based Linear Programming Decoder for LDPC Codes via ADMM Approach. *IEEE Wireless Communications Letters*, **2019**, 8, 1032-1035	5.9	9
129	Decoding Generalized Joint Channel Coding and Physical Network Coding in the LLR Domain. *IEEE Signal Processing Letters*, **2013**, 20, 121-124	3.2	9

128	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	3.7	9
127	Asymptotic Analysis of Opportunistic Relaying Based on the Max-Generalized-Mean Selection Criterion. *IEEE Transactions on Wireless Communications*, **2011**, 10, 1050-1057	9.6	9
126	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	6.8	9
125	. *IEEE Transactions on Vehicular Technology*, **2017**, 66, 6037-6049	6.8	8
124	Design and Analysis of Punctured Terminated Spatially Coupled Protograph LDPC Codes With Small Coupling Lengths. *IEEE Access*, **2018**, 6, 36723-36731	3.5	8
123	Optimisation of low-density parity-check codes with deterministic unequal error protection properties. *IET Communications*, **2011**, 5, 1560-1565	1.3	8
122	Application of complex-network theories to the design of short-length low-density-parity-check codes. *IET Communications*, **2009**, 3, 1569	1.3	8
121	Analytical performance of M-ary time-hopping orthogonal PPM UWB systems under multiple access interference. *IEEE Transactions on Communications*, **2008**, 56, 1780-1784	6.9	8
120	A Bio-Inspired Scheduling Scheme for Wireless Sensor Networks. *IEEE Vehicular Technology Conference*, **2008**,	0.1	8
119	Achievable-SIR-based predictive closed-loop power control in a CDMA mobile system. *IEEE Transactions on Vehicular Technology*, **2002**, 51, 720-728	6.8	8
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117	Fixed-Point Implementation of Convolutional Neural Networks for Image Classification **2018**,		8
116	Rapid prototyping of multi-mode QC-LDPC decoder for 802.11n/ac standard **2016**,		7
115	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	2	7
114	A fast searching method for the construction of QC-LDPC codes with large girth **2012**,		7
113	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	2	7
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108	A Novel Approach to Analyzing V-BLAST MIMO Systems with Two Transmit Antennas. *IEEE Transactions on Wireless Communications*, **2007**, 6, 1591-1595	9.6	6
107	APPROXIMATE-OPTIMAL DETECTOR FOR CHAOS COMMUNICATION SYSTEMS. *International Journal of Bifurcation and Chaos in Applied Sciences and Engineering*, **2003**, 13, 1329-1335	2	6
106	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		6
105	Joint Carrier-Code Index Modulation Aided M-Ary Differential Chaos Shift Keying System. *IEEE Transactions on Vehicular Technology*, **2020**, 69, 15486-15499	6.8	6
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103	Joint Shuffled Scheduling Decoding Algorithm for DP-LDPC Codes-Based JSCC Systems. *IEEE Wireless Communications Letters*, **2019**, 8, 1696-1699	5.9	5
102	A consistent heuristic for efficient path planning on mobility maps **2017**,		5
101	On the Diversity Order of a General Cooperative Relaying Communication System. *Wireless Personal Communications*, **2014**, 77, 605-631	1.9	5
100	Efficient Decoding of QC-LDPC Codes Using GPUs. *Lecture Notes in Computer Science*, **2011**, 294-305	0.9	5
99	Feasibility of UWB radio: Impulse radio versus chaos-based approach **2010**,		5
98	Analytical approach of V-BLAST performance with two transmit antennas		5
97	Notice of Violation of IEEE Publication Principles: Construction of GC-Balanced DNA With Deletion/Insertion/Mutation Error Correction for DNA Storage System. *IEEE Access*, **2020**, 8, 140972-140980	3.5	5
96	A Turbo-Hadamard Encoder/Decoder System with Hundreds of Mbps Throughput **2018**,		5
95	. *IEEE Transactions on Communications*, **2021**, 69, 4998-5013	6.9	5
94	The Design of Vertical RS-CRC and LDPC Code for Ship-Based Satellite Communications On-the-Move. *IEEE Access*, **2019**, 7, 44977-44986	3.5	4
93	An Ultimate-Shannon-Limit-Approaching Gbps Throughput Encoder/Decoder System. *IEEE Transactions on Circuits and Systems II: Express Briefs*, **2020**, 67, 2169-2173	3.5	4

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91	Mitigating Doppler effects on physical-layer network coding in VANET **2015**,		4
90	Improved Min-Sum Decoding for 2-D Intersymbol Interference Channels. *IEEE Transactions on Magnetics*, **2014**, 50, 1-4	2	4
89	A high throughput Gaussian noise generator **2014**,		4
88	Performance of cooperative spectrum sensing over fading channels with low signal-to-noise ratio. *IET Communications*, **2012**, 6, 1988-1999	1.3	4
87	Performance evaluation of irregular low-density parity-check codes at high signal-to-noise ratio. *IET Communications*, **2011**, 5, 1587-1596	1.3	4
86	BP-Maxwell Decoding Algorithm for LDPC Codes over AWGN Channels **2010**,		4
85	SCALE-FREE LUBY TRANSFORM CODES. *International Journal of Bifurcation and Chaos in Applied Sciences and Engineering*, **2012**, 22, 1250094	2	4
84	Influential factors for decimetre level positioning using ultra wide band technology. *Survey Review*, **2012**, 44, 37-44	0.9	4
83	A scheduling scheme for wireless sensor networks based on social insect colonies. *IET Communications*, **2009**, 3, 714	1.3	4
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74	Protograph-based LDPC-Hadamard Codes **2020**,		3
73	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	3.5	3
72	Effective routing algorithms based on node usage probability from a complex network perspective **2014**,		3
71	A distributed market framework for mobile data offloading **2015**,		3
70	Energy Consumption in Wireless Sensor Networks under Varying Sensor Node Traffic **2010**,		3
69	. *IEEE Transactions on Wireless Communications*, **2009**, 8, 5455-5460	9.6	3
68	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	2	3
67	Generalization of Waveform Communications: The Fourier Analyzer Approach. *Circuits, Systems, and Signal Processing*, **2005**, 24, 451-474	2.2	3
66	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	2	3
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63	On using the cyclically-coupled QC-LDPC codes in future SSDs **2016**,		3
62	Path Planning for Semi-Flocking-Controlled Mobile Sensor Networks on Mobility Maps **2018**,		3
61	Full-duplex OFDMA multi-user cellular systems: resource allocation and user pairing. *Transactions on Emerging Telecommunications Technologies*, **2017**, 28, e3005	1.9	2
60	Random-permutation-matrix-based cyclically-coupled LDPC codes **2017**,		2
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34	Increasing the local girth of irregular low-density parity-check codes based on degree-spectrum analysis. *IET Communications*, **2011**, 5, 1506-1511	1.3	1
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30	Evaluation of the Extremely Low Block Error Rate of Irregular LDPC Codes **2009**,		1
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