Steven W Mclaughlin

List of Publications by Year
in descending order

34 papers	2,377 citations	933447 10 h-index	1058476 14 g-index
34 all docs	34 docs citations	34 times ranked	1797 citing authors

#	Article	IF	Citations
1	A Study of TDMR Signal Processing Opportunities Based on Quasi-Micromagnetic Simulations. IEEE Transactions on Magnetics, 2015, 51, 1-7.	2.1	15
2	Coding for Secrecy: An Overview of Error-Control Coding Techniques for Physical-Layer Security. IEEE Signal Processing Magazine, 2013, 30, 41-50.	5.6	144
3	Channel Aware Encryption and Decision Fusion for Wireless Sensor Networks. IEEE Transactions on Information Forensics and Security, 2013, 8, 619-625.	6.9	35
4	Equivocations for the simple substitution cipher with erasure-prone ciphertext. , 2012, , .		4
5	Physical-layer security over correlated erasure channels. , 2012, , .		8
6	Secure communications with untrusted secondary users in cognitive radio networks. , 2012, , .		9
7	LDPC Codes for the Gaussian Wiretap Channel. IEEE Transactions on Information Forensics and Security, 2011, 6, 532-540.	6.9	182
8	Channel aware encryption and decision fusion for wireless sensor networks. , 2011, , .		10
9	Random complex field code design for security over wiretap channels. , 2011, , .		0
10	Coding for Cryptographic Security Enhancement Using Stopping Sets. IEEE Transactions on Information Forensics and Security, 2011, 6, 575-584.	6.9	29
11	Strong Secrecy on the Binary Erasure Wiretap Channel Using Large-Girth LDPC Codes. IEEE Transactions on Information Forensics and Security, 2011, 6, 585-594.	6.9	71
12	Wireless Secrecy Regions With Friendly Jamming. IEEE Transactions on Information Forensics and Security, 2011, 6, 256-266.	6.9	141
13	Quantifying information rate losses with zero-forcing and maximum-likelihood detectors. , 2010, , .		0
14	Stopping sets for physical-layer security. , 2010, , .		10
15	Strong secrecy for erasure wiretap channels. , 2010, , .		31
16	Multilevel coding and multistage decoding for M-ary two-dimensional ISI channels. , 2009, , .		0
17	Tandem coding and cryptography on wiretap channels: EXIT chart analysis. , 2009, , .		14
18	Capacity bounds for two-dimensional asymmetric M-ary (0, Î°) and (d,Î±) runlength-limited channels. IEEE Transactions on Communications, 2009, 57, 1584-1587.	7.8	5

#	Article	IF	Citations
19	LDPC codes for the Gaussian wiretap channel. , 2009, , .		25
20	EXIT charts applied to tandem coding and cryptography in a wiretap scenario. , 2009, , .		3
21	Wireless Information-Theoretic Security. IEEE Transactions on Information Theory, 2008, 54, 2515-2534.	2.4	1,522
22	Optimized puncturing and shortening distributions for nonbinary LDPC codes over the binary erasure channel. , 2008, , .		8
23	Client-Server Architecture Design based on Wiretap Codes. , 2008, , .		0
24	Layered BP Decoding for Rate-Compatible Punctured LDPC Codes. IEEE Communications Letters, 2007, 11, 440-442.	4.1	14
25	Post-Error Correcting Code Modeling of Burst Channels Using Hidden Markov Models With Applications to Magnetic Recording. IEEE Transactions on Magnetics, 2007, 43, 572-579.	2.1	6
26	Fixed-Rate Maximum-Runlength-Limited Codes From Variable-Rate Bit Stuffing. IEEE Transactions on Information Theory, 2007, 53, 2769-2790.	2.4	5
27	GEN04-2: M-ary, Binary, and Space-Volume Multiplexing Trade-offs for Holographic Channels. IEEE Global Telecommunications Conference (GLOBECOM), 2006, , .	0.0	4
28	Post-ECC Modeling of Magnetic Recording Channels using Hidden Markov Models. , 2006, , .		1
29	Design of Efficiently-Encodable Rate-Compatible Irregular LDPC Codes. , 2006, , .		17
30	Capacity Lower Bounds for Two-Dimensional M-ary (0, k) and (d, Â¿) Runlength-limited Channels. , 2006, , .		1
31	Incremental Redundancy Low-Density Parity Check Codes for MIMO V-BLAST Systems. , 2006, , .		1
32	Bit Stuff Encoding for (0, G/I) Constraints. , 2006, , .		1
33	Design of Rate-Compatible Irregular LDPC Codes for Incremental Redundancy Hybrid ARQ Systems. , 2006, , .		33
34	LDPC Coded OFDM with Alamouti/SVD Diversity Technique. Wireless Personal Communications, 2002, 23, 183-194.	2.7	28