

Simon Litsyn

List of Publications by Year in descending order

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43
papers

843
citations

840585

11
h-index

713332

21
g-index

44
all docs

44
docs citations

44
times ranked

686
citing authors

#	ARTICLE	IF	CITATIONS
1	Recursive descriptions of polar codes. Advances in Mathematics of Communications, 2017, 11, 1-65.	0.4	1
2	Mixed-Kernels Constructions of Polar Codes. IEEE Journal on Selected Areas in Communications, 2016, 34, 239-253.	9.7	32
3	Binary Polarization Kernels From Code Decompositions. IEEE Transactions on Information Theory, 2015, 61, 2227-2239.	1.5	37
4	Design of non-binary quasi-cyclic LDPC codes by ACE optimization. , 2013, , .		18
5	Bioorganic nanodots for non-volatile memory devices. APL Materials, 2013, 1, .	2.2	12
6	The PAPR Problem in OFDM Transmission: New Directions for a Long-Lasting Problem. IEEE Signal Processing Magazine, 2013, 30, 130-144.	4.6	183
7	A constant energy constellation OFDM signal model with applications. , 2012, , .		0
8	Puncturing, expurgating and expanding the q-ary BCH based robust codes. , 2012, , .		16
9	An Analytical Approach to the Calculation of EVM in Clipped Multi-Carrier Signals. IEEE Transactions on Communications, 2012, 60, 1371-1380.	4.9	12
10	Binary polar code kernels from code decompositions. , 2011, , .		20
11	Polar codes with mixed kernels. , 2011, , .		17
12	New Asymptotic Bounds on the Size of Multiple Packings of the Euclidean Sphere. Discrete and Computational Geometry, 2011, 46, 626-635.	0.4	3
13	On the EVM computation of arbitrary clipped multi-carrier signals. Eurasip Journal on Advances in Signal Processing, 2011, 2011, .	1.0	2
14	On the EVM of sequences. , 2011, , .		0
15	Symbol-pair codes: Algebraic constructions and asymptotic bounds. , 2011, , .		53
16	Weight distribution moments of random linear/coset codes. Designs, Codes, and Cryptography, 2010, 57, 127-138.	1.0	6
17	An analytical approach to the calculation of EVM in clipped OFDM signals. , 2010, , .		1
18	Analysis of LDPC decoding schedules. , 2009, , .		1

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19	New asymptotic bounds on the size of list codes on Euclidean sphere. , 2009, , .		1
20	Convergence analysis of generalized serial message-passing schedules. IEEE Journal on Selected Areas in Communications, 2009, 27, 1013-1024.	9.7	11
21	Decreasing error floor in LDPC codes by parity-check matrix extensions. , 2009, , .		7
22	On upper bounds for the achievable rates of LDPC codes. , 2009, , .		0
23	On PMEPR of algebraic codes. European Transactions on Telecommunications, 2008, 19, 773-779.	1.2	0
24	Constructing LDPC codes by error minimization progressive edge growth. IEEE Transactions on Communications, 2008, 56, 359-368.	4.9	21
25	Improved Upper Bounds on the Reliability Function of the Gaussian Channel. IEEE Transactions on Information Theory, 2008, 54, 5-12.	1.5	14
26	Bounds for Codes in Products of Spaces, Grassmann, and Stiefel Manifolds. IEEE Transactions on Information Theory, 2008, 54, 1024-1035.	1.5	8
27	Generalized serial schedules for iterative decoding of LDPC codes. , 2008, , .		0
28	Efficient layers-based schedules for iterative decoding of LDPC codes. , 2008, , .		4
29	Typical peak sidelobe level of binary sequences. , 2008, , .		0
30	Bounds for Codes in the Grassmann Manifold. , 2007, , .		1
31	Approximately Lower Triangular Ensembles of LDPC Codes With Linear Encoding Complexity. IEEE Transactions on Information Theory, 2007, 53, 1484-1494.	1.5	14
32	Efficient Serial Message-Passing Schedules for LDPC Decoding. IEEE Transactions on Information Theory, 2007, 53, 4076-4091.	1.5	122
33	A Balancing Method for PMEPR Reduction in OFDM Signals. IEEE Transactions on Communications, 2007, 55, 683-691.	4.9	8
34	Improved Upper Bounds on the Reliability Function of the Gaussian Channel. , 2006, , .		1
35	Bounds for Codes in the Grassmann Manifold. , 2006, , .		2
36	Improved lower bounds on sizes of single-error correcting codes. Designs, Codes, and Cryptography, 2006, 42, 67-72.	1.0	2

#	ARTICLE	IF	CITATIONS
37	A Method for Constructing LDPC Codes with Low Error Floor. , 2006, , .		3
38	IRRATIONAL FACTORS SATISFYING THE LITTLE FERMAT THEOREM. International Journal of Number Theory, 2005, 01, 499-512.	0.2	0
39	A Coding Theory Bound and Zero-Sum Square Matrices. Graphs and Combinatorics, 2003, 19, 449-457.	0.2	0
40	Short Dominating Paths and Cycles in the Binary Hypercube. Annals of Combinatorics, 2001, 5, 51-59.	0.3	6
41	On the Distance Distributions of BCH Codes and Their Duals. Designs, Codes, and Cryptography, 2001, 23, 223-232.	1.0	10
42	On binary codes for identification. Journal of Combinatorial Designs, 2000, 8, 151-156.	0.3	50
43	Bounds on Spectra of Codes with Known Dual Distance. Designs, Codes, and Cryptography, 1998, 13, 285-297.	1.0	10