Moshe Schwartz

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/3089082/publications.pdf

Version: 2024-02-01

114	1,902	361413	330143
papers	citations	20 h-index	37 g-index

115	115	115	565
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Construction of Maximally Recoverable Codes With Order-Optimal Field Size. IEEE Transactions on Information Theory, 2022, 68, 204-212.	2.4	17
2	Improved Coding Over Sets for DNA-Based Data Storage. IEEE Transactions on Information Theory, 2022, 68, 118-129.	2.4	4
3	On tilings of asymmetric limited-magnitude balls. European Journal of Combinatorics, 2022, 100, 103450.	0.8	4
4	Sequence Reconstruction for Limited-Magnitude Errors. IEEE Transactions on Information Theory, 2022, 68, 4422-4434.	2.4	1
5	On the Generalized Covering Radii of Reed-Muller Codes. IEEE Transactions on Information Theory, 2022, 68, 4378-4391.	2.4	3
6	Improved Rank-Modulation Codes for DNA Storage With Shotgun Sequencing. IEEE Transactions on Information Theory, 2022, 68, 3719-3730.	2.4	0
7	Optimal Locally Repairable Codes: An Improved Bound and Constructions. IEEE Transactions on Information Theory, 2022, 68, 5060-5074.	2.4	6
8	On the Reverse-Complement String-Duplication System. IEEE Transactions on Information Theory, 2022, 68, 7184-7197.	2.4	1
9	On Optimal Locally Repairable Codes and Generalized Sector-Disk Codes. IEEE Transactions on Information Theory, 2021, 67, 686-704.	2.4	17
10	On Tilings of Asymmetric Limited-Magnitude Balls. , 2021, , .		0
11	An Improved Bound for Optimal Locally Repairable Codes. , 2021, , .		1
12	Uncertainty of Reconstruction With List-Decoding From Uniform-Tandem-Duplication Noise. IEEE Transactions on Information Theory, 2021, 67, 4276-4287.	2.4	2
13	The Generalized Covering Radii of Linear Codes. , 2021, , .		1
14	On the Gap Between Scalar and Vector Solutions of Generalized Combination Networks. IEEE Transactions on Information Theory, 2021, 67, 5580-5591.	2.4	3
15	On Lattice Packings and Coverings of Asymmetric Limited-Magnitude Balls. IEEE Transactions on Information Theory, 2021, 67, 5104-5115.	2.4	7
16	The Generalized Covering Radii of Linear Codes. IEEE Transactions on Information Theory, 2021, 67, 8070-8085.	2.4	5
17	On Optimal Locally Repairable Codes With Multiple Disjoint Repair Sets. IEEE Transactions on Information Theory, 2020, 66, 2402-2416.	2.4	17
18	Reconstruction Codes for DNA Sequences With Uniform Tandem-Duplication Errors. IEEE Transactions on Information Theory, 2020, 66, 2658-2668.	2.4	18

#	Article	IF	Citations
19	On Optimal Locally Repairable Codes and Generalized Sector-Disk Codes. , 2020, , .		2
20	Single-Error Detection and Correction for Duplication and Substitution Channels. IEEE Transactions on Information Theory, 2020, 66, 6908-6919.	2.4	13
21	On the Gap between Scalar and Vector Solutions of Generalized Combination Networks. , 2020, , .		0
22	Coding for Optimized Writing Rate in DNA Storage. , 2020, , .		14
23	Uncertainty of Reconstructing Multiple Messages from Uniform-Tandem-Duplication Noise. , 2020, , .		7
24	Hierarchical erasure correction of linear codes. Finite Fields and Their Applications, 2020, 68, 101743.	1.0	1
25	On Optimal Locally Repairable Codes With Super-Linear Length. IEEE Transactions on Information Theory, 2020, 66, 4853-4868.	2.4	35
26	Evolution of k -Mer Frequencies and Entropy in Duplication and Substitution Mutation Systems. IEEE Transactions on Information Theory, 2020, 66, 3171-3186.	2.4	6
27	Network-Coding Solutions for Minimal Combination Networks and Their Sub-Networks. IEEE Transactions on Information Theory, 2020, 66, 6786-6798.	2.4	6
28	On Optimal Locally Repairable Codes with Super-Linear Length. , 2019, , .		2
29	Single-Error Detection and Correction for Duplication and Substitution Channels. , 2019, , .		6
30	Estimation of duplication history under a stochastic model for tandem repeats. BMC Bioinformatics, 2019, 20, 64.	2.6	11
31	The Entropy Rate of Some PÃ³lya String Models. IEEE Transactions on Information Theory, 2019, 65, 8180-8193.	2.4	1
32	On the Access Complexity of PIR Schemes. , 2019, , .		10
33	Network Coding Solutions for the Combination Network and its Subgraphs. , 2019, , .		5
34	Locality and Availability of Array Codes Constructed From Subspaces. IEEE Transactions on Information Theory, 2019, 65, 2648-2660.	2.4	21
35	An efficient shift rule for the prefer-max De Bruijn sequence. Discrete Mathematics, 2019, 342, 226-232.	0.7	6
36	Rank-Modulation Codes for DNA Storage With Shotgun Sequencing. IEEE Transactions on Information Theory, 2019, 65, 50-64.	2.4	9

#	Article	IF	Citations
37	Reconstruction Codes for DNA Sequences with Uniform Tandem-Duplication Errors. , 2018, , .		8
38	Erasure Correction of Scalar Codes in the Presence of Stragglers. , 2018, , .		5
39	On Independence and Capacity of Multidimensional Semiconstrained Systems. IEEE Transactions on Information Theory, 2018, 64, 6461-6483.	2.4	3
40	On Encoding Semiconstrained Systems. IEEE Transactions on Information Theory, 2018, 64, 2474-2484.	2.4	3
41	Infinity-Norm Permutation Covering Codes From Cyclic Groups. IEEE Transactions on Information Theory, 2018, 64, 5219-5230.	2.4	3
42	Evolution of N-Gram Frequencies Under Duplication and Substitution Mutations. , 2018, , .		6
43	Improved Lower Bounds on the Size of Balls Over Permutations With the Infinity Metric. IEEE Transactions on Information Theory, 2017, 63, 6227-6239.	2.4	10
44	Duplication-Correcting Codes for Data Storage in the DNA of Living Organisms. IEEE Transactions on Information Theory, 2017, 63, 4996-5010.	2.4	70
45	Non-linear cyclic codes that attain the Gilbert-Varshamov bound. , 2017, , .		4
46	Multidimensional semiconstrained systems. , 2017, , .		1
47	Noise and uncertainty in string-duplication systems. , 2017, , .		13
48	File Updates Under Random/Arbitrary Insertions and Deletions. IEEE Transactions on Information Theory, 2017, 63, 6487-6513.	2.4	5
49	Coding for the $oldsymbol ell _infty $ -Limited Permutation Channel. IEEE Transactions on Information Theory, 2017, 63, 7676-7686.	2.4	9
50	Limited-Magnitude Error-Correcting Gray Codes for Rank Modulation. IEEE Transactions on Information Theory, 2017, , 1-1.	2.4	8
51	Locality and availability of array codes constructed from subspaces. , 2017, , .		5
52	Rank modulation codes for DNA storage. , 2017, , .		4
53	Limited-magnitude error-correcting Gray codes for rank modulation. , 2016, , .		4
54	Construction of Partial MDS and Sector-Disk Codes With Two Global Parity Symbols. IEEE Transactions on Information Theory, 2016, 62, 2673-2681.	2.4	44

#	Article	IF	Citations
55	Encoding semiconstrained systems. , 2016, , .		4
56	Duplication-correcting codes for data storage in the DNA of living organisms. , 2016, , .		14
57	The capacity of some PÃ³lya string models. , 2016, , .		3
58	Bounds for Permutation Rate-Distortion. IEEE Transactions on Information Theory, 2016, 62, 703-712.	2.4	7
59	The Capacity of String-Duplication Systems. IEEE Transactions on Information Theory, 2016, 62, 811-824.	2.4	29
60	Semiconstrained Systems. IEEE Transactions on Information Theory, 2016, 62, 1688-1702.	2.4	33
61	Coding for the ℓ<inf>∞</inf>-limited permutation channel. , 2015, , .		1
62	A stochastic model for genomic interspersed duplication. , 2015, , .		15
63	Bounds on the size of balls over permutations with the infinity metric. , 2015, , .		3
64	Semiconstrained systems. , 2015, , .		3
65	File updates under random/arbitrary insertions and deletions. , 2015, , .		10
66	Systematic Error-Correcting Codes for Rank Modulation. IEEE Transactions on Information Theory, 2015, 61, 17-32.	2.4	40
67	The capacity of string-duplication systems. , 2014, , .		6
68	Partial MDS (PMDS) and Sector-Disk (SD) codes that tolerate the erasure of two random sectors. , 2014, , .		12
69	Bounds for permutation rate-distortion. , 2014, , .		4
70	Quasi-linear network coding. , 2014, , .		3
71	On the non-existence of lattice tilings by quasi-crosses. European Journal of Combinatorics, 2014, 36, 130-142.	0.8	19
72	Linear covering codes and error-correcting codes for limited-magnitude errors. Designs, Codes, and Cryptography, 2014, 73, 329-354.	1.6	7

#	Article	IF	Citations
73	Gray Codes and Enumerative Coding for Vector Spaces. IEEE Transactions on Information Theory, 2014, 60, 271-281.	2.4	3
74	On the non-existence of lattice tilings by quasi-crosses. , 2013, , .		4
75	Generalized Gray Codes for Local Rank Modulation. IEEE Transactions on Information Theory, 2013, 59, 6664-6673.	2.4	10
76	Trajectory Codes for Flash Memory. IEEE Transactions on Information Theory, 2013, 59, 4530-4541.	2.4	10
77	Sequence reconstruction for Grassmann graphs and permutations. , 2013, , .		21
78	Snake-in-the-box codes for rank modulation. , 2012, , .		4
79	On the Labeling Problem of Permutation Group Codes Under the Infinity Metric. IEEE Transactions on Information Theory, 2012, 58, 6595-6604.	2.4	22
80	Quasi-Cross Lattice Tilings With Applications to Flash Memory. IEEE Transactions on Information Theory, 2012, 58, 2397-2405.	2.4	46
81	Snake-in-the-Box Codes for Rank Modulation. IEEE Transactions on Information Theory, 2012, 58, 5471-5483.	2.4	37
82	New Bounds on the Capacity of Multidimensional Run-Length Constraints. IEEE Transactions on Information Theory, 2011, 57, 4373-4382.	2.4	12
83	Constant-Weight Gray Codes for Local Rank Modulation. IEEE Transactions on Information Theory, 2011, 57, 7431-7442.	2.4	26
84	Optimal permutation anticodes with the infinity norm via permanents of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:mo stretchy="false">(</mml:mo><mml:mn>0</mml:mn><mml:mo>,</mml:mo><mml:mn>1</mml:mn><mml:mo) Tj ETQq0 0 0 rgBT /Overlo 118, 1761-1774.		
85	On the labeling problem of permutation group codes under the infinity metric. , 2011, , .		1
86	Quasi-cross lattice tilings with applications to flash memory. , 2011, , .		4
87	On optimal anticodes over permutations with the infinity norm. , 2011, , .		1
88	Generalized Gray codes for local rank modulation. , 2011, , .		4
89	On the Capacity of the Precision-Resolution System. IEEE Transactions on Information Theory, 2010, 56, 1028-1037.	2.4	7
90	Codes for Asymmetric Limited-Magnitude Errors With Application to Multilevel Flash Memories. IEEE Transactions on Information Theory, 2010, 56, 1582-1595.	2.4	117

#	Article	IF	Citations
91	Correcting Charge-Constrained Errors in the Rank-Modulation Scheme. IEEE Transactions on Information Theory, 2010, 56, 2112-2120.	2.4	91
92	Correcting Limited-Magnitude Errors in the Rank-Modulation Scheme. IEEE Transactions on Information Theory, 2010, 56, 2551-2560.	2.4	72
93	Constant-weight Gray codes for local rank modulation. , 2010, , .		9
94	On a construction for constant-weight Gray codes for local rank modulation. , 2010, , .		6
95	Correcting limited-magnitude errors in the rank-modulation scheme. , 2010, , .		5
96	Rank Modulation for Flash Memories. IEEE Transactions on Information Theory, 2009, 55, 2659-2673.	2.4	210
97	Efficiently computing the permanent and Hafnian of some banded Toeplitz matrices. Linear Algebra and Its Applications, 2009, 430, 1364-1374.	0.9	30
98	Universal rewriting in constrained memories. , 2009, , .		28
99	Constrained Codes as Networks of Relations. IEEE Transactions on Information Theory, 2008, 54, 2179-2195.	2.4	24
100	Rank modulation for flash memories. , 2008, , .		16
101	Error-correcting codes for rank modulation. , 2008, , .		44
102	Distributed broadcasting and mapping protocols in directed anonymous networks. , 2007, , .		2
103	Constrained Codes as Networks of Relations. , 2007, , .		3
104	Codes for Multi-Level Flash Memories: Correcting Asymmetric Limited-Magnitude Errors. , 2007, , .		30
105	Optimal tristance anticodes in certain graphs. Journal of Combinatorial Theory - Series A, 2006, 113, 189-224.	0.8	8
106	On the stopping distance and the stopping redundancy of codes. IEEE Transactions on Information Theory, 2006, 52, 922-932.	2.4	125
107	On the Capacity of Precision-Resolution Constrained Systems. , 2006, , .		1
108	New Bounds on the Capacity of Multi-dimensional RLL-Constrained Systems. Lecture Notes in Computer Science, 2006, , 225-234.	1.3	3

#	Article	IF	Citations
109	Two-Dimensional Cluster-Correcting Codes. IEEE Transactions on Information Theory, 2005, 51, 2121-2132.	2.4	23
110	On the asymptotic performance of iterative decoders for product codes. , 2005, , .		16
111	Perfect Constant-Weight Codes. IEEE Transactions on Information Theory, 2004, 50, 2156-2165.	2.4	19
112	Optimal 2-Dimensional 3-Dispersion Lattices. Lecture Notes in Computer Science, 2003, , 216-225.	1.3	10
113	Codes and Anticodes in the Grassman Graph. Journal of Combinatorial Theory - Series A, 2002, 97, 27-42.	0.8	64
114	The structure of single-track Gray codes. IEEE Transactions on Information Theory, 1999, 45, 2383-2396.	2.4	32