

Han Mao Kiah

List of Publications by Year in descending order

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468
citing authors

#	ARTICLE	IF	CITATIONS
1	Domination mappings into the hamming ball: Existence, constructions, and algorithms. <i>Advances in Mathematics of Communications</i> , 2023, 17, 1027-1059.	0.4	1
2	On the number of distinct k -decks: Enumeration and bounds. <i>Advances in Mathematics of Communications</i> , 2023, 17, 960-978.	0.4	1
3	Coding for Sequence Reconstruction for Single Edits. <i>IEEE Transactions on Information Theory</i> , 2022, 68, 66-79.	1.5	12
4	Correcting Deletions With Multiple Reads. <i>IEEE Transactions on Information Theory</i> , 2022, 68, 7141-7158.	1.5	7
5	Generalized Sphere-Packing Bound for Subblock-Constrained Codes. <i>IEEE Transactions on Information Theory</i> , 2021, 67, 187-199.	1.5	3
6	Lower Bounds for Total Storage of Multiset Combinatorial Batch Codes Using Linear Programming. <i>IEEE Transactions on Information Theory</i> , 2021, 67, 255-267.	1.5	1
7	Explicit Baranyai partitions for quadruples, Part I: Quadrupling constructions. <i>Journal of Combinatorial Designs</i> , 2021, 29, 447-481.	0.3	3
8	Correcting a Single Indel/Edit for DNA-Based Data Storage: Linear-Time Encoders and Order-Optimality. <i>IEEE Transactions on Information Theory</i> , 2021, 67, 3438-3451.	1.5	30
9	Regular Multiset Combinatorial Batch Codes over Vector Spaces. , 2021, , .		1
10	Correcting Two Deletions with More Reads. , 2021, , .		5
11	Coding for Segmented Edits with Local Weight Constraints. , 2021, , .		8
12	Capacity-Approaching Constrained Codes With Error Correction for DNA-Based Data Storage. <i>IEEE Transactions on Information Theory</i> , 2021, 67, 5602-5613.	1.5	36
13	Repairing Reed-Solomon Codes via Subspace Polynomials. <i>IEEE Transactions on Information Theory</i> , 2021, 67, 6395-6407.	1.5	6
14	Locally-Constrained de Bruijn Codes: Properties, Enumeration, Code Constructions, and Applications. <i>IEEE Transactions on Information Theory</i> , 2021, 67, 7857-7875.	1.5	6
15	Explicit and Efficient WOM Codes of Finite Length. <i>IEEE Transactions on Information Theory</i> , 2020, 66, 2669-2682.	1.5	5
16	Coding for Sequence Reconstruction for Single Edits. , 2020, , .		11
17	Recovery Sets for Subspaces from a Vector Space. , 2020, , .		1
18	Constrained Coding with Error Control for DNA-Based Data Storage. , 2020, , .		15

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19	Efficient and Explicit Balanced Primer Codes. IEEE Transactions on Information Theory, 2020, 66, 5344-5357.	1.5	13
20	Robust Positioning Patterns with Low Redundancy. SIAM Journal on Computing, 2020, 49, 284-317.	0.8	5
21	Efficient Constrained Encoders Correcting a Single Nucleotide Edit in DNA Storage. , 2020, , .		2
22	Low-Power Cooling Codes With Efficient Encoding and Decoding. IEEE Transactions on Information Theory, 2020, 66, 4804-4818.	1.5	5
23	Efficient Encoding/Decoding of GC-Balanced Codes Correcting Tandem Duplications. IEEE Transactions on Information Theory, 2020, 66, 4892-4903.	1.5	9
24	Efficient and Explicit Balanced Primer Codes. , 2019, , .		7
25	Decompositions of Edge-Colored Digraphs: A New Technique in the Construction of Constant-Weight Codes and Related Families. SIAM Journal on Discrete Mathematics, 2019, 33, 209-229.	0.4	3
26	Constrained de Bruijn Codes and their Applications. , 2019, , .		5
27	On the Number of Distinct k-Decks: Enumeration and Bounds. , 2019, , .		5
28	Generalized Sphere-Packing Bound for Subblock-Constrained Codes. , 2019, , .		3
29	Lower Bounds for Total Storage of Multiset Combinatorial Batch Codes using Linear Programming. , 2019, , .		0
30	Linear-Time Encoders for Codes Correcting a Single Edit for DNA-Based Data Storage. , 2019, , .		6
31	A Generalization of the Blackburn-Etzion Construction for Private Information Retrieval Array Codes. , 2019, , .		3
32	Capacity-Achieving Codes That Mitigate Intercell Interference and Charge Leakage in Flash Memories. IEEE Transactions on Information Theory, 2019, 65, 3702-3712.	1.5	8
33	Deciding the Confusability of Words under Tandem Repeats in Linear Time. ACM Transactions on Algorithms, 2019, 15, 1-22.	0.9	10
34	Geometric Orthogonal Codes of Size Larger Than Optical Orthogonal Codes. IEEE Transactions on Information Theory, 2018, 64, 2883-2895.	1.5	5
35	Mutually Uncorrelated Primers for DNA-Based Data Storage. IEEE Transactions on Information Theory, 2018, 64, 6283-6296.	1.5	38
36	Coding for Racetrack Memories. IEEE Transactions on Information Theory, 2018, 64, 7094-7112.	1.5	56

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37	Bounds on the Size and Asymptotic Rate of Subblock-Constrained Codes. IEEE Transactions on Information Theory, 2018, 64, 6604-6619.	1.5	16
38	Efficient Encoding/Decoding of Irreducible Words for Codes Correcting Tandem Duplications. , 2018, , .		3
39	Codes Correcting Limited-Shift Errors in Racetrack Memories. , 2018, , .		14
40	Low-Power Cooling Codes with Efficient Encoding and Decoding. , 2018, , .		1
41	Reducing the Average Delay in Gradient Coding. , 2018, , .		0
42	Repairing Reed-Solomon Codes With Multiple Erasures. IEEE Transactions on Information Theory, 2018, 64, 6567-6582.	1.5	43
43	Cooling Codes: Thermal-Management Coding for High-Performance Interconnects. IEEE Transactions on Information Theory, 2018, 64, 3062-3085.	1.5	8
44	Improved Asymptotic Sphere-Packing Bounds for Subblock-Constrained Codes. , 2018, , .		4
45	Switch Codes: Codes for Fully Parallel Reconstruction. IEEE Transactions on Information Theory, 2017, 63, 2061-2075.	1.5	13
46	Constructions of Optimal and Near-Optimal Multiply Constant-Weight Codes. IEEE Transactions on Information Theory, 2017, 63, 3621-3629.	1.5	12
47	Asymmetric Lee Distance Codes for DNA-Based Storage. IEEE Transactions on Information Theory, 2017, 63, 4982-4995.	1.5	35
48	Bounds on the asymptotic rate of binary constant subblock-composition codes. , 2017, , .		5
49	Explicit constructions of finite-length WOM codes. , 2017, , .		5
50	Geometric orthogonal codes better than optical orthogonal codes. , 2017, , .		1
51	Rates of DNA Sequence Profiles for Practical Values of Read Lengths. IEEE Transactions on Information Theory, 2017, 63, 7166-7177.	1.5	22
52	Repairing reed-solomon codes with two erasures. , 2017, , .		15
53	Coding for racetrack memories. , 2017, , .		10
54	Binary subblock energy-constrained codes: Bounds on code size and asymptotic rate. , 2017, , .		10

#	ARTICLE	IF	CITATIONS
55	Cooling codes: Thermal-management coding for high-performance interconnects. , 2017, , .		4
56	Codes correcting position errors in racetrack memories. , 2017, , .		13
57	On the number of DNA sequence profiles for practical values of read lengths. , 2016, , .		1
58	Codes for DNA Sequence Profiles. IEEE Transactions on Information Theory, 2016, 62, 3125-3146.	1.5	77
59	String concatenation construction for Chebyshev permutation channel codes. , 2016, , .		1
60	Rates of constant-composition codes that mitigate intercell interference. , 2016, , .		7
61	Efficient encoding/decoding of capacity-achieving constant-composition ICI-free codes. , 2016, , .		9
62	Weakly mutually uncorrelated codes. , 2016, , .		6
63	Synchronization and Deduplication in Coded Distributed Storage Networks. IEEE/ACM Transactions on Networking, 2016, 24, 3056-3069.	2.6	6
64	Asymmetric Lee distance codes for DNA-based storage. , 2015, , .		11
65	Product Construction of Affine Codes. SIAM Journal on Discrete Mathematics, 2015, 29, 1540-1552.	0.4	0
66	Locally Encodable and Decodable Codes for Distributed Storage Systems. , 2015, , .		0
67	Generalized Balanced Tournament Packings and Optimal Equitable Symbol Weight Codes for Power Line Communications. Journal of Combinatorial Designs, 2015, 23, 151-182.	0.3	2
68	Local codes with addition based repair. , 2015, , .		3
69	Optimal binary switch codes with small query size. , 2015, , .		20
70	DNA-Based Storage: Trends and Methods. IEEE Transactions on Molecular, Biological, and Multi-Scale Communications, 2015, 1, 230-248.	1.4	157
71	Codes for DNA sequence profiles. , 2015, , .		12
72	Optimal Codes in the Enomoto-Katona Space. Combinatorics Probability and Computing, 2015, 24, 382-406.	0.8	1

#	ARTICLE	IF	CITATIONS
73	Codes for DNA storage channels. , 2015, , .		11
74	Asymmetric Lee distance codes: New bounds and constructions. , 2015, , .		10
75	Synchronizing edits in distributed storage networks. , 2015, , .		4
76	Product construction of affine codes. , 2014, , .		1
77	Rewritable coset coding for flash memories. , 2014, , .		1
78	Decompositions of edge-colored digraphs: A new technique in the construction of constant-weight codes and related families. , 2014, , .		3
79	Multiply Constant-Weight Codes and the Reliability of Loop Physically Unclonable Functions. IEEE Transactions on Information Theory, 2014, 60, 7026-7034.	1.5	23
80	Locally Encodable and Decodable Codes for Distributed Storage Systems. , 2014, , .		0
81	Matrix codes and multitone frequency shift keying for power line communications. , 2013, , .		16
82	Optimal codes in the Enomoto-Katona space. , 2013, , .		1
83	Importance of Symbol Equity in Coded Modulation for Power Line Communications. IEEE Transactions on Communications, 2013, 61, 4381-4390.	4.9	6
84	Cross-Bifix-Free Codes Within a Constant Factor of Optimality. IEEE Transactions on Information Theory, 2013, 59, 4668-4674.	1.5	32
85	PURE ASYMMETRIC QUANTUM MDS CODES FROM CSS CONSTRUCTION: A COMPLETE CHARACTERIZATION. International Journal of Quantum Information, 2013, 11, 1350027.	0.6	29
86	Maximum Distance Separable Codes for Symbol-Pair Read Channels. IEEE Transactions on Information Theory, 2013, 59, 7259-7267.	1.5	58
87	Estimates on the Size of Symbol Weight Codes. IEEE Transactions on Information Theory, 2013, 59, 301-314.	1.5	4
88	Generalized Balanced Tournament Designs with Block Size Four. Electronic Journal of Combinatorics, 2013, 20, .	0.2	1
89	Maximum distance separable symbol-pair codes. , 2012, , .		24
90	Importance of symbol equity in coded modulation for power line communications. , 2012, , .		6

#	ARTICLE	IF	CITATIONS
91	Optimal equitable symbol weight codes for power line communications. , 2012, , .		5
92	A note on cyclic codes over $GR(p^2, m)$ of length p^k . Designs, Codes, and Cryptography, 2012, 63, 105-112. Cyclic codes over $GR(p^2, m)$ of length p^k .	1.0	24
93	Fin	0.6	44