

Chaoping Xing

List of Publications by Year in descending order

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126
papers

2,615
citations

236833

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41
g-index

128
all docs

128
docs citations

128
times ranked

720
citing authors

#	ARTICLE	IF	CITATIONS
1	Communication Efficient Secret Sharing With Small Share Size. IEEE Transactions on Information Theory, 2022, 68, 659-669.	1.5	5
2	Binary Sequences With a Low Correlation via Cyclotomic Function Fields. IEEE Transactions on Information Theory, 2022, 68, 3445-3454.	1.5	1
3	Optimal Rate List Decoding over Bounded Alphabets Using Algebraic-geometric Codes. Journal of the ACM, 2022, 69, 1-48.	1.8	2
4	Construction of Optimal (r, \hat{r}) -Locally Recoverable Codes and Connection With Graph Theory. IEEE Transactions on Information Theory, 2022, 68, 4320-4328.	1.5	4
5	Biometric key generation based on generated intervals and two-layer error correcting technique. Pattern Recognition, 2021, 111, 107733.	5.1	12
6	Lossless Dimension Expanders Via Linearized Polynomials and Subspace Designs. Combinatorica, 2021, 41, 545-579.	0.6	2
7	A New Construction of Nonlinear Codes via Rational Function Fields. IEEE Transactions on Information Theory, 2021, 67, 770-777.	1.5	3
8	Explicit Constructions of Two-Dimensional Reed-Solomon Codes in High Insertion and Deletion Noise Regime. IEEE Transactions on Information Theory, 2021, 67, 2808-2820.	1.5	10
9	Efficiently List-Decodable Insertion and Deletion Codes via Concatenation. IEEE Transactions on Information Theory, 2021, 67, 5778-5790.	1.5	6
10	Construction of Optimal Locally Repairable Codes via Automorphism Groups of Rational Function Fields. IEEE Transactions on Information Theory, 2020, 66, 210-221.	1.5	35
11	Asymptotic Gilbert-Varshamov Bound on Frequency Hopping Sequences. IEEE Transactions on Information Theory, 2020, 66, 1213-1218.	1.5	7
12	Constructive Asymptotic Bounds of Locally Repairable Codes via Function Fields. IEEE Transactions on Information Theory, 2020, 66, 5395-5403.	1.5	5
13	A Construction of Optimal Frequency Hopping Sequence Set via Combination of Multiplicative and Additive Groups of Finite Fields. IEEE Transactions on Information Theory, 2020, 66, 5310-5315.	1.5	17
14	On the Bounded Distance Decoding Problem for Lattices Constructed and Their Cryptographic Applications. IEEE Transactions on Information Theory, 2020, 66, 2588-2598.	1.5	4
15	Efficient Multi-Point Local Decoding of Reed-Muller Codes via Interleaved Codex. IEEE Transactions on Information Theory, 2020, 66, 263-272.	1.5	3
16	Constructions of Maximally Recoverable Local Reconstruction Codes via Function Fields. IEEE Transactions on Information Theory, 2020, 66, 6133-6143.	1.5	17
17	Optimal Locally Repairable Codes Via Elliptic Curves. IEEE Transactions on Information Theory, 2019, 65, 108-117.	1.5	65
18	Optimal Locally Repairable Codes of Distance 3 and 4 via Cyclic Codes. IEEE Transactions on Information Theory, 2019, 65, 1048-1053.	1.5	75

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19	New Extension Constructions of Optimal Frequency-Hopping Sequence Sets. IEEE Transactions on Information Theory, 2019, 65, 5846-5855.	1.5	12
20	Construction of Asymptotically Good Locally Repairable Codes via Automorphism Groups of Function Fields. IEEE Transactions on Information Theory, 2019, 65, 7087-7094.	1.5	8
21	The asymptotic behavior of automorphism groups of function fields over finite fields. Transactions of the American Mathematical Society, 2019, 372, 35-52.	0.5	2
22	On subfields of the Hermitian function field involving the involution automorphism. Journal of Number Theory, 2019, 198, 293-317.	0.2	7
23	List Decodability of Symbol-Pair Codes. IEEE Transactions on Information Theory, 2019, 65, 4815-4821.	1.5	8
24	How Long Can Optimal Locally Repairable Codes Be?. IEEE Transactions on Information Theory, 2019, 65, 3662-3670.	1.5	57
25	Repairing Algebraic Geometry Codes. IEEE Transactions on Information Theory, 2018, 64, 900-908.	1.5	6
26	A New Class of Rank-Metric Codes and Their List Decoding Beyond the Unique Decoding Radius. IEEE Transactions on Information Theory, 2018, 64, 3394-3402.	1.5	2
27	Subspace designs based on algebraic function fields. Transactions of the American Mathematical Society, 2018, 370, 8757-8775.	0.5	9
28	Algebraic Geometry Codes With Complementary Duals Exceed the Asymptotic Gilbert-Varshamov Bound. IEEE Transactions on Information Theory, 2018, 64, 6277-6282.	1.5	10
29	List Decoding of Cover Metric Codes Up to the Singleton Bound. IEEE Transactions on Information Theory, 2018, 64, 2410-2416.	1.5	5
30	List Decodability of Random Subcodes of Gabidulin Codes. IEEE Transactions on Information Theory, 2017, 63, 159-163.	1.5	5
31	Efficiently List-Decodable Punctured Reed-Muller Codes. IEEE Transactions on Information Theory, 2017, 63, 4317-4324.	1.5	4
32	Multipartite entangled states, symmetric matrices and error-correcting codes. IEEE Transactions on Information Theory, 2017, , 1-1.	1.5	7
33	New MDS Self-Dual Codes From Generalized Reed-Solomon Codes. IEEE Transactions on Information Theory, 2017, 63, 1434-1438.	1.5	62
34	Construction of Sequences With High Nonlinear Complexity From Function Fields. IEEE Transactions on Information Theory, 2017, 63, 7646-7650.	1.5	9
35	Explicit List-Decodable Rank-Metric and Subspace Codes via Subspace Designs. IEEE Transactions on Information Theory, 2016, 62, 2707-2718.	1.5	23
36	On automorphism groups of cyclotomic function fields over finite fields. Journal of Number Theory, 2016, 169, 406-419.	0.2	6

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37	On Secret Sharing with Nonlinear Product Reconstruction. SIAM Journal on Discrete Mathematics, 2015, 29, 1114-1131.	0.4	3
38	Optimal rate algebraic list decoding using narrow ray class fields. Journal of Combinatorial Theory - Series A, 2015, 129, 160-183.	0.5	7
39	A Construction of New Quantum MDS Codes. IEEE Transactions on Information Theory, 2014, 60, 2921-2925.	1.5	72
40	Natural Generalizations of Threshold Secret Sharing. IEEE Transactions on Information Theory, 2014, 60, 1652-1664.	1.5	20
41	Sequences With High Nonlinear Complexity. IEEE Transactions on Information Theory, 2014, 60, 6696-6701.	1.5	20
42	Erasure List-Decodable Codes From Random and Algebraic Geometry Codes. IEEE Transactions on Information Theory, 2014, 60, 3889-3894.	1.5	4
43	Torsion Limits and Riemann-Roch Systems for Function Fields and Applications. IEEE Transactions on Information Theory, 2014, 60, 3871-3888.	1.5	14
44	A relation between embedding degrees and class numbers of binary quadratic forms. Mathematics of Computation, 2014, 83, 3001-3004.	1.1	0
45	Bounds on the Threshold Gap in Secret Sharing and its Applications. IEEE Transactions on Information Theory, 2013, 59, 5600-5612.	1.5	20
46	New results on two hypercube coloring problems. Discrete Applied Mathematics, 2013, 161, 2937-2945.	0.5	3
47	Towards a characterization of subfields of the Deligne-Lusztig function fields. Journal of Combinatorial Theory - Series A, 2013, 120, 1351-1371.	0.5	17
48	An Upper Bound on the Complexity of Multiplication of Polynomials Modulo a Power of an Irreducible Polynomial. IEEE Transactions on Information Theory, 2013, 59, 6845-6850.	1.5	1
49	On the Representability of the Biuniform Matroid. SIAM Journal on Discrete Mathematics, 2013, 27, 1482-1491.	0.4	5
50	Good Linear Codes from Polynomial Evaluations. IEEE Transactions on Communications, 2012, 60, 357-363.	4.9	3
51	On Self-Dual Cyclic Codes Over Finite Fields. IEEE Transactions on Information Theory, 2011, 57, 2243-2251.	1.5	72
52	Asymptotically Good Nonlinear Codes From Algebraic Curves. IEEE Transactions on Information Theory, 2011, 57, 5991-5995.	1.5	4
53	A Gilbert-Varshamov-type bound for lattice packings. Journal of Combinatorial Theory - Series A, 2011, 118, 938-948.	0.5	0
54	Structure of functional codes defined on non-degenerate Hermitian varieties. Journal of Combinatorial Theory - Series A, 2011, 118, 2436-2444.	0.5	6

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55	Asymmetric Quantum Codes: Characterization and Constructions. IEEE Transactions on Information Theory, 2010, 56, 2938-2945.	1.5	63
56	Generalization of Steane's Enlargement Construction of Quantum Codes and Applications. IEEE Transactions on Information Theory, 2010, 56, 4080-4084.	1.5	49
57	Application of Classical Hermitian Self-Orthogonal MDS Codes to Quantum MDS Codes. IEEE Transactions on Information Theory, 2010, 56, 4735-4740.	1.5	108
58	Multisequences With Large Linear and k -Error Linear Complexity From Hermitian Function Fields. IEEE Transactions on Information Theory, 2009, 55, 3858-3863.	1.5	9
59	A constructive bound on kissing numbers. Proceedings of the American Mathematical Society, 2009, 137, 2953-2953.	0.4	0
60	Asymptotically Good Ideal Linear Secret Sharing with Strong Multiplication over Any Fixed Finite Field. Lecture Notes in Computer Science, 2009, , 466-486.	1.0	24
61	Function-field codes. Applicable Algebra in Engineering, Communications and Computing, 2008, 19, 201-211.	0.3	4
62	Dense packings from quadratic fields and codes. Journal of Combinatorial Theory - Series A, 2008, 115, 1021-1035.	0.5	2
63	Access Structures of Elliptic Secret Sharing Schemes. IEEE Transactions on Information Theory, 2008, 54, 850-852.	1.5	6
64	A 2×2 lattice space-time code of rank 5 . Proceedings of the American Mathematical Society, 2008, 136, 3415-3418.	0.4	3
65	A Gilbert-Varshamov type bound for Euclidean packings. Mathematics of Computation, 2008, 77, 2339-2344.	1.1	1
66	Zeta-functions of curves of genus 2 over finite fields. Journal of Algebra, 2007, 308, 734-741.	0.4	1
67	Algebraic curves with many points over the binary field. Journal of Algebra, 2007, 311, 775-780.	0.4	8
68	Diagonal Lattice Space-Time Codes From Number Fields and Asymptotic Bounds. IEEE Transactions on Information Theory, 2007, 53, 3921-3926.	1.5	13
69	New Linear Codes and Algebraic Function Fields Over Finite Fields. IEEE Transactions on Information Theory, 2007, 53, 4822-4825.	1.5	7
70	An explicit class of codes with good parameters and their duals. Discrete Applied Mathematics, 2006, 154, 346-356.	0.5	2
71	Asymptotic bounds on quantum codes from algebraic geometry codes. IEEE Transactions on Information Theory, 2006, 52, 986-991.	1.5	55
72	Goppa geometric codes achieving the Gilbert-Varshamov bound. IEEE Transactions on Information Theory, 2005, 51, 259-264.	1.5	7

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73	Quantum Codes From Concatenated Algebraic-Geometric Codes. IEEE Transactions on Information Theory, 2005, 51, 2915-2920.	1.5	54
74	A Construction of Binary Constant-Weight Codes From Algebraic Curves Over Finite Fields. IEEE Transactions on Information Theory, 2005, 51, 3674-3678.	1.5	8
75	Excellent Nonlinear Codes From Algebraic Function Fields. IEEE Transactions on Information Theory, 2005, 51, 4044-4046.	1.5	20
76	On the variance of average distance of subsets in the Hamming space. Discrete Applied Mathematics, 2005, 145, 465-478.	0.5	0
77	Polyadic Codes Revisited. IEEE Transactions on Information Theory, 2004, 50, 200-207.	1.5	11
78	Linear Codes From Narrow Ray Class Groups of Algebraic Curves. IEEE Transactions on Information Theory, 2004, 50, 541-543.	1.5	4
79	Disjoint Linear Codes From Algebraic Function Fields. IEEE Transactions on Information Theory, 2004, 50, 2174-2177.	1.5	4
80	A short biography of Harald Niederreiter. Journal of Complexity, 2004, 20, 134-136.	0.7	0
81	Special issue on cryptography and coding theory. Journal of Complexity, 2004, 20, 133.	0.7	0
82	Linear authentication codes: bounds and constructions. IEEE Transactions on Information Theory, 2003, 49, 866-872.	1.5	76
83	Low-correlation, large linear span sequences from function fields. IEEE Transactions on Information Theory, 2003, 49, 1439-1446.	1.5	14
84	Nonlinear codes from algebraic curves improving the Tsfasman-Vladut-Zink bound. IEEE Transactions on Information Theory, 2003, 49, 1653-1657.	1.5	31
85	New lower bounds and constructions for binary codes correcting asymmetric errors. IEEE Transactions on Information Theory, 2003, 49, 3294-3299.	1.5	15
86	Several classes of $(2m+1, w, 2)$ optical orthogonal codes. Discrete Applied Mathematics, 2003, 128, 103-120.	0.5	15
87	The minimum distance of the duals of binary irreducible cyclic codes. IEEE Transactions on Information Theory, 2002, 48, 2679-2689.	1.5	9
88	Constructions of codes from residue rings of polynomials. IEEE Transactions on Information Theory, 2002, 48, 2995-2997.	1.5	13
89	Asymptotic bounds on frameproof codes. IEEE Transactions on Information Theory, 2002, 48, 2991-2995.	1.5	23
90	New binary linear codes from algebraic curves. IEEE Transactions on Information Theory, 2002, 48, 285-287.	1.5	8

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91	Improvements on parameters of one-point AG codes from Hermitian curves. IEEE Transactions on Information Theory, 2002, 48, 535-537.	1.5	28
92	Constructions of digital nets. Acta Arithmetica, 2002, 102, 189-197.	0.2	14
93	Symmetric Polynomials and Some Good Codes. Finite Fields and Their Applications, 2001, 7, 142-148.	0.6	10
94	Explicit Constructions of Perfect Hash Families from Algebraic Curves over Finite Fields. Journal of Combinatorial Theory - Series A, 2001, 93, 112-124.	0.5	30
95	Algebraic-geometry codes with asymptotic parameters better than the Gilbert-Varshamov and the Tsfasman-Vladut-Zink bounds. IEEE Transactions on Information Theory, 2001, 47, 347-352.	1.5	22
96	Asymptotically good quantum codes exceeding the Ashikhmin-Litsyn-Tsfasman bound. IEEE Transactions on Information Theory, 2001, 47, 2055-2058.	1.5	38
97	Multi-sequences with Almost Perfect Linear Complexity Profile and Function Fields over Finite Fields. Journal of Complexity, 2000, 16, 661-675.	0.7	28
98	Constructions of authentication codes from algebraic curves over finite fields. IEEE Transactions on Information Theory, 2000, 46, 886-892.	1.5	20
99	A class of linear codes with good parameters from algebraic curves. IEEE Transactions on Information Theory, 2000, 46, 1527-1532.	1.5	20
100	Some new codes from algebraic curves. IEEE Transactions on Information Theory, 2000, 46, 2638-2642.	1.5	24
101	A Propagation Rule for Linear Codes. Applicable Algebra in Engineering, Communications and Computing, 2000, 10, 425-432.	0.3	10
102	Construction and Enumeration of All Binary Duadic Codes of Length pm . Fundamenta Informaticae, 1999, 38, 149-161.	0.3	9
103	Some Computational Problems of Cryptographic Significance Concerning Elliptic Curves over Rings. Information and Computation, 1999, 151, 92-99.	0.5	0
104	Constructions of algebraic-geometry codes. IEEE Transactions on Information Theory, 1999, 45, 1186-1193.	1.5	20
105	Drinfeld Modules of Rank 1 and Algebraic Curves with Many Rational Points. Monatshefte Fur Mathematik, 1999, 127, 219-241.	0.5	14
106	Sequences with almost perfect linear complexity profiles and curves over finite fields. IEEE Transactions on Information Theory, 1999, 45, 1267-1270.	1.5	26
107	A generalization of algebraic-geometry codes. IEEE Transactions on Information Theory, 1999, 45, 2498-2501.	1.5	39
108	Constructions of Sequences with Almost Perfect Linear Complexity Profile from Curves over Finite Fields. Finite Fields and Their Applications, 1999, 5, 301-313.	0.6	11

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109	A Counterexample to Perret's Conjecture on Infinite Class Field Towers for Global Function Fields. Finite Fields and Their Applications, 1999, 5, 240-245.	0.6	2
110	A New Construction of Algebraic Geometry Codes. Applicable Algebra in Engineering, Communications and Computing, 1999, 9, 373-381.	0.3	25
111	Towers of Global Function Fields with Asymptotically Many Rational Places and an Improvement on the Gilbert & Varshamov Bound. Mathematische Nachrichten, 1998, 195, 171-186.	0.4	38
112	Global function fields with many rational places over the ternary field. Acta Arithmetica, 1998, 83, 65-86.	0.2	10
113	Global function fields with many rational places over the quinary field. II. Acta Arithmetica, 1998, 86, 277-288.	0.2	3
114	GLOBAL FUNCTION FIELDS WITH MANY RATIONAL PLACES OVER THE QUINARY FIELD. Demonstratio Mathematica, 1997, 30, 919-930.	0.6	6
115	Cyclotomic function fields, Hilbert class fields, and global function fields with many rational places. Acta Arithmetica, 1997, 79, 59-76.	0.2	27
116	Drinfeld modules of rank 1 and algebraic curves with many rational points. II. Acta Arithmetica, 1997, 81, 81-100.	0.2	19
117	Low-Discrepancy Sequences and Global Function Fields with Many Rational Places. Finite Fields and Their Applications, 1996, 2, 241-273.	0.6	139
118	On Supersingular Abelian Varieties of Dimension Two over Finite Fields. Finite Fields and Their Applications, 1996, 2, 407-421.	0.6	20
119	Explicit global function fields over the binary field with many rational places. Acta Arithmetica, 1996, 75, 383-396.	0.2	21
120	The genus of maximal function fields over finite fields. Manuscripta Mathematica, 1995, 86, 217-224.	0.3	38
121	On the structure of the divisor class group of a class of curves over finite fields. Archiv Der Mathematik, 1995, 65, 141-150.	0.3	13
122	Automorphism group of elliptic codes. Communications in Algebra, 1995, 23, 4061-4072.	0.3	3
123	On automorphism groups of the Hermitian codes. IEEE Transactions on Information Theory, 1995, 41, 1629-1635.	1.5	18
124	Low-discrepancy sequences obtained from algebraic function fields over finite fields. Acta Arithmetica, 1995, 72, 281-298.	0.2	30
125	A construction of low-discrepancy sequences using global function fields. Acta Arithmetica, 1995, 73, 87-102.	0.2	59
126	The structure of the rational point groups of simple abelian varieties of dimension two over finite fields. Archiv Der Mathematik, 1994, 63, 427-430.	0.3	9