Xiwang Cao

List of Publications by Year
in descending order

96 papers	867 citations	687363 13 h-index	642732 23 g-index
96 all docs	96 docs citations	96 times ranked	249 citing authors

#	Article	IF	Citations
1	Infinite families of 2-designs from a class of affine-invariant codes. Advances in Mathematics of Communications, 2024, 18, 206-221.	0.7	0
2	Optimal p-ary cyclic codes with two zeros. Applicable Algebra in Engineering, Communications and Computing, 2023, 34, 129-138.	0.5	4
3	Character sums over a non-chain ring and their applications. Advances in Mathematics of Communications, 2023, 17, 381-403.	0.7	0
4	Two classes of new optimal ternary cyclic codes. Advances in Mathematics of Communications, 2023, 17, 979-993.	0.7	10
5	Generalized block inserting for constructing new constant dimension codes. Cryptography and Communications, 2023, 15, 1-15.	1.4	5
6	A class of affine-invariant codes and their support 2-designs. Cryptography and Communications, 2022, 14, 215-227.	1.4	1
7	A family of optimal ternary cyclic codes with minimum distance five and their duals. Cryptography and Communications, 2022, 14, 1-13.	1.4	4
8	Cayley graphs of dihedral groups having perfect edge state transfer. Linear and Multilinear Algebra, 2022, 70, 5957-5972.	1.0	3
9	Perfect quantum state transfer on Cayley graphs over semi-dihedral groups. Linear and Multilinear Algebra, 2022, 70, 6358-6374.	1.0	5
10	A new method for constructing linear codes with small hulls. Designs, Codes, and Cryptography, 2022, 90, 2663-2682.	1.6	6
11	Minimal linear codes constructed from functions. Cryptography and Communications, 2022, 14, 875-895.	1.4	2
12	Several classes of permutation polynomials of the form <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.svg"><mml:msup><mml:mrow><mml:mo		

#	Article	IF	Citations
19	Estimations on some hybrid exponential sums related to Kloosterman sums. Turkish Journal of Mathematics, 2021, 45, 797-819.	0.7	0
20	The parameters of minimal linear codes. Finite Fields and Their Applications, 2021, 71, 101799.	1.0	15
21	Infinite families of 2‑designs derived from affine‑invariant codes. Journal of Combinatorial Designs, 2021, 29, 683-702.	0.6	2
22	Constructing MDS Galois self-dual constacyclic codes over finite fields. Discrete Mathematics, 2021, 344, 112388.	0.7	7
23	Perfect State Transfer on Weighted Abelian Cayley Graphs. Chinese Annals of Mathematics Series B, 2021, 42, 625-642.	0.4	6
24	Constructions of Optimal Binary Locally Recoverable Codes via a General Construction of Linear Codes. IEEE Transactions on Communications, 2021, 69, 4987-4997.	7.8	11
25	Three New Constructions of Asymptotically Optimal Periodic Quasi-Complementary Sequence Sets With Small Alphabet Sizes. IEEE Transactions on Information Theory, 2021, 67, 5168-5177.	2.4	3
26	Perfect edge state transfer on cubelike graphs. Quantum Information Processing, 2021, 20, 1.	2.2	3
27	Further results on optimal ternary cyclic codes. Finite Fields and Their Applications, 2021, 75, 101898.	1.0	10
28	Linear codes with few weights from weakly regular plateaued functions. Discrete Mathematics, 2021, 344, 112597.	0.7	3
29	Three deterministic constructions of compressed sensing matrices with low coherence. Cryptography and Communications, 2020, 12, 547-558.	1.4	2
30	Pretty good state transfer on Cayley graphs over dihedral groups. Discrete Mathematics, 2020, 343, 111636.	0.7	7
31	On some conjectures about optimal ternary cyclic codes. Designs, Codes, and Cryptography, 2020, 88, 297-309.	1.6	13
32	Bounds and Optimal q -Ary Codes Derived From the $\mathbb{Z}_qR$ -Cyclic Codes. IEEE Transactions on Information Theory, 2020, 66, 923-935.	2.4	6
33	Two constructions of asymptotically optimal codebooks via the trace functions. Cryptography and Communications, 2020, 12, 1195-1211.	1.4	3
34	Some arithmetical properties of cyclotomic cosets and their applications. Discrete Mathematics, 2020, 343, 111971.	0.7	0
35	Minimal linear codes from Maiorana-McFarland functions. Finite Fields and Their Applications, 2020, 65, 101688.	1.0	15
36	Optimal Cyclic Codes With Hierarchical Locality. IEEE Transactions on Communications, 2020, 68, 3302-3310.	7.8	6

#	Article	IF	Citations
37	Four Classes of Optimal Quinary Cyclic Codes. IEEE Communications Letters, 2020, 24, 1387-1390.	4.1	10
38	More permutation polynomials with Niho exponents which permute $\mathbb{F}_{q^{...}}$ Finite Fields and Their Applications, 2020, 62, 101626.	1.0	7
39	Six constructions of asymptotically optimal codebooks via the character sums. Designs, Codes, and Cryptography, 2020, 88, 1139-1158.	1.6	9
40	Perfect State Transfer on Cayley Graphs over Dihedral Groups: The Non-Normal Case. Electronic Journal of Combinatorics, 2020, 27, .	0.4	6
41	Several new classes of self-dual bent functions derived from involutions. Cryptography and Communications, 2019, 11, 1261-1273.	1.4	9
42	Two new families of entanglement-assisted quantum MDS codes from generalized Reed–Solomon codes. Quantum Information Processing, 2019, 18, 1.	2.2	35
43	Perfect state transfer on abelian Cayley graphs. Linear Algebra and Its Applications, 2019, 563, 331-352.	0.9	23
44	MDS Codes With Hulls of Arbitrary Dimensions and Their Quantum Error Correction. IEEE Transactions on Information Theory, 2019, 65, 2944-2952.	2.4	82
45	Two constructions of asymptotically optimal codebooks. Cryptography and Communications, 2019, 11, 825-838.	1.4	16
46	Two classes of optimal frequency-hopping sequences with new parameters. Applicable Algebra in Engineering, Communications and Computing, 2019, 30, 1-16.	0.5	5
47	A Note on the Zero-Difference Balanced Functions with New Parameters. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2019, E102.A, 1402-1405.	0.3	0
48	New constructions of approximately SIC-POVMs via difference sets. Annals of Physics, 2018, 391, 56-64.	2.8	3
49	A new class of optimal linear codes with flexible parameters. Discrete Applied Mathematics, 2018, 237, 126-131.	0.9	13
50	Two Constructions of Asymptotically Optimal Codebooks via the Hyper Eisenstein Sum. IEEE Transactions on Information Theory, 2018, 64, 6498-6505.	2.4	30
51	On the roots of certain Dickson polynomials. Journal of Number Theory, 2018, 188, 229-246.	0.4	3
52	Binary linear codes with two or three weights from niho exponents. Cryptography and Communications, 2018, 10, 301-318.	1.4	30
53	Two classes of near-optimal frequency-hopping sequence sets with prime-power period. Cryptography and Communications, 2018, 10, 437-454.	1.4	1
54	Complete weight enumerators of a class of linear codes with two weights. Discrete Mathematics, 2018, 341, 525-535.	0.7	3

#	Article	IF	Citations
55	Asymptotically good quasi-cyclic codes of fractional index. Discrete Mathematics, 2018, 341, 308-314.	0.7	14
56	Complete weight enumerators of three classes of linear codes. Cryptography and Communications, 2018, 10, 1091-1108.	1.4	4
57	Five classes of optimal two-weight linear codes. Cryptography and Communications, 2018, 10, 1119-1135.	1.4	14
58	Two Classes of Linear Codes with Two or Three Weights. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2018, E101.A, 2366-2373.	0.3	1
59	New Constructions of Codebooks Asymptotically Achieving the Welch Bound. , 2018, , .		11
60	Optimal FHSs and DSSs via near zero-difference balanced functions. Discrete Applied Mathematics, 2018, 247, 433-447.	0.9	1
61	A Kind of Disjoint Cyclic Perfect Mendelsohn Difference Family and Its Applications in Strictly Optimal FHSs. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2018, E101.A, 2338-2343.	0.3	2
62	Quantum codes from Hermitian dual-containing cyclic codes. International Journal of Computer Mathematics: Computer Systems Theory, 2017, 2, 97-109.	1.1	2
63	A construction of linear codes and strongly regular graphs from q-polynomials. Discrete Mathematics, 2017, 340, 2262-2274.	0.7	4
64	Several Classes of Quadratic Ternary Bent, Near-Bent and 2-Plateaued Functions. International Journal of Foundations of Computer Science, 2017, 28, 1-18.	1.1	5
65	Two constructions of approximately symmetric informationally complete positive operator-valued measures. Journal of Mathematical Physics, 2017, 58, .	1.1	10
66	Two new constructions of approximately SIC-POVMs from multiplicative characters. Quantum Information Processing, 2017, 16, 1.	2.2	2
67	Several classes of Boolean functions with few Walsh transform values. Applicable Algebra in Engineering, Communications and Computing, 2017, 28, 155-176.	0.5	18
68	Two classes of p-ary bent functions and linear codes with three or four weights. Cryptography and Communications, 2017, 9, 117-131.	1.4	12
69	A class of minimal cyclic codes over finite fields. Discrete Mathematics, 2017, 340, 3197-3206.	0.7	2
70	More constructions of near optimal codebooks associated with binary sequences. Advances in Mathematics of Communications, 2017, 11, 187-202.	0.7	11
71	Recursive construction of optimal frequency-hopping sequence sets. IET Communications, 2016, 10, 1080-1086.	2.2	8
72	On the number of solutions of certain diagonal equations over finite fields. Finite Fields and Their Applications, 2016, 42, 225-252.	1.0	9

#	Article	IF	Citations
73	Optimal Frequency-Hopping Sequence Sets Based on Cyclotomy. International Journal of Foundations of Computer Science, 2016, 27, 443-462.	1.1	8
74	MORE CONSTRUCTIONS OF APPROXIMATELY MUTUALLY UNBIASED BASES. Bulletin of the Australian Mathematical Society, 2016, 93, 211-222.	0.5	1
75	Optimal p-ary cyclic codes with minimum distance four from monomials. Cryptography and Communications, 2016, 8, 541-554.	1.4	26
76	Several classes of polynomials with low differential uniformity over finite fields of odd characteristic. Applicable Algebra in Engineering, Communications and Computing, 2016, 27, 91-103.	0.5	3
77	Constructing new APN functions and bent functions over finite fields of odd characteristic via the switching method. Cryptography and Communications, 2016, 8, 155-171.	1.4	9
78	A NOTE ON SOME CHARACTER SUMS OVER FINITEÂFIELDS. Bulletin of the Australian Mathematical Society, 2015, 92, 32-43.	0.5	0
79	Two Boolean Functions with Five-Valued Walsh Spectra and High Nonlinearity. International Journal of Foundations of Computer Science, 2015, 26, 537-556.	1.1	10
80	Linearized Wenger graphs. Discrete Mathematics, 2015, 338, 1595-1602.	0.7	11
81	Constructing New Piecewise Differentially 4-Uniform Permutations from Known APN Functions. International Journal of Foundations of Computer Science, 2015, 26, 599-609.	1.1	2
82	Primitive elements with prescribed trace. Applicable Algebra in Engineering, Communications and Computing, 2014, 25, 339-345.	0.5	6
83	Constructing permutation polynomials from piecewise permutations. Finite Fields and Their Applications, 2014, 26, 162-174.	1.0	15
84	Some semi-bent functions with polynomial trace form. Journal of Systems Science and Complexity, 2014, 27, 777-784.	2.8	5
85	On the reducibility of some composite polynomials over finite fields. Designs, Codes, and Cryptography, 2012, 64, 229-239.	1.6	2
86	New methods for generating permutation polynomials over finite fields. Finite Fields and Their Applications, 2011, 17, 493-503.	1.0	21
87	A construction of hyperbent functions with polynomial trace form. Science China Mathematics, 2011, 54, 2229-2234.	1.7	3
88	A note on the reducibility of binary affine polynomials. Designs, Codes, and Cryptography, 2010, 57, 83-90.	1.6	3
89	The weight distribution of a class of p-ary cyclic codes. Finite Fields and Their Applications, 2010, 16, 56-73.	1.0	101
90	A note on the moments of Kloosterman sums. Applicable Algebra in Engineering, Communications and Computing, 2009, 20, 447-457.	0.5	3

#	Article	IF	Citations
91	Some Results on Generalized Difference Sets. Journal of Systems Science and Complexity, 2008, 21, 76-84.	2.8	0
92	Some nonexistence results on generalized difference sets. Applied Mathematics Letters, 2008, 21, 797-802.	2.7	3
93	New Kloosterman sum identities and equalities over finite fields. Finite Fields and Their Applications, 2008, 14, 823-833.	1.0	5
94	A Note on Perfect Arrays. IEEE Signal Processing Letters, 2004, 11, 435-438.	3.6	5
95	Gaussian sums, hyper Eisenstein sums and Jacobi sums over a local ring and their applications. Applicable Algebra in Engineering, Communications and Computing, 0, , 1.	0.5	3
96	Pretty good state transfer on Cayley graphs over semi-dihedral groups. Linear and Multilinear Algebra, 0, , 1-16.	1.0	0