Xiwang Cao

List of Publications by Year
in descending order

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96	867	687363 13	642732 23
papers	citations	h-index	g-index

96	96	96	249
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The weight distribution of a class of p-ary cyclic codes. Finite Fields and Their Applications, 2010, 16, 56-73.	1.0	101
2	MDS Codes With Hulls of Arbitrary Dimensions and Their Quantum Error Correction. IEEE Transactions on Information Theory, 2019, 65, 2944-2952.	2.4	82
3	Two new families of entanglement-assisted quantum MDS codes from generalized Reedâ€“Solomon codes. Quantum Information Processing, 2019, 18, 1.	2.2	35
4	Two Constructions of Asymptotically Optimal Codebooks via the Hyper Eisenstein Sum. IEEE Transactions on Information Theory, 2018, 64, 6498-6505.	2.4	30
5	Binary linear codes with two or three weights from niho exponents. Cryptography and Communications, 2018, 10, 301-318.	1.4	30
6	Optimal p-ary cyclic codes with minimum distance four from monomials. Cryptography and Communications, 2016, 8, 541-554.	1.4	26
7	Perfect state transfer on abelian Cayley graphs. Linear Algebra and Its Applications, 2019, 563, 331-352.	0.9	23
8	New methods for generating permutation polynomials over finite fields. Finite Fields and Their Applications, 2011, 17, 493-503.	1.0	21
9	Several classes of Boolean functions with few Walsh transform values. Applicable Algebra in Engineering, Communications and Computing, 2017, 28, 155-176.	0.5	18
10	Perfect state transfer on Cayley graphs over dihedral groups. Linear and Multilinear Algebra, 2021, 69, 343-360.	1.0	17
11	Two constructions of asymptotically optimal codebooks. Cryptography and Communications, 2019, 11, 825-838.	1.4	16
12	Constructing permutation polynomials from piecewise permutations. Finite Fields and Their Applications, 2014, 26, 162-174.	1.0	15
13	Minimal linear codes from Maiorana-McFarland functions. Finite Fields and Their Applications, 2020, 65, 101688.	1.0	15
14	The parameters of minimal linear codes. Finite Fields and Their Applications, 2021, 71, 101799.	1.0	15
15	Asymptotically good quasi-cyclic codes of fractional index. Discrete Mathematics, 2018, 341, 308-314.	0.7	14
16	Five classes of optimal two-weight linear codes. Cryptography and Communications, 2018, 10, 1119-1135.	1.4	14
17	A new class of optimal linear codes with flexible parameters. Discrete Applied Mathematics, 2018, 237, 126-131.	0.9	13
18	On some conjectures about optimal ternary cyclic codes. Designs, Codes, and Cryptography, 2020, 88, 297-309.	1.6	13

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19	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
20	Linear codes with one-dimensional hull associated with Gaussian sums. Cryptography and Communications, 2021, 13, 225-243.	1.4	12
21	Linearized Wenger graphs. Discrete Mathematics, 2015, 338, 1595-1602.	0.7	11
22	New Constructions of Codebooks Asymptotically Achieving the Welch Bound. , 2018, , .		11
23	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
24	More constructions of near optimal codebooks associated with binary sequences. Advances in Mathematics of Communications, 2017, 11, 187-202.	0.7	11
25	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
26	Two constructions of approximately symmetric informationally complete positive operator-valued measures. Journal of Mathematical Physics, 2017, 58, .	1.1	10
27	Four Classes of Optimal Quinary Cyclic Codes. IEEE Communications Letters, 2020, 24, 1387-1390.	4.1	10
28	Further results on optimal ternary cyclic codes. Finite Fields and Their Applications, 2021, 75, 101898.	1.0	10
29	Two classes of new optimal ternary cyclic codes. Advances in Mathematics of Communications, 2023, 17, 979-993.	0.7	10
30	On the number of solutions of certain diagonal equations over finite fields. Finite Fields and Their Applications, 2016, 42, 225-252.	1.0	9
31	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
32	Several new classes of self-dual bent functions derived from involutions. Cryptography and Communications, 2019, 11, 1261-1273.	1.4	9
33	Six constructions of asymptotically optimal codebooks via the character sums. Designs, Codes, and Cryptography, 2020, 88, 1139-1158.	1.6	9
34	Recursive construction of optimal frequencyâ€hopping sequence sets. IET Communications, 2016, 10, 1080-1086.	2.2	8
35	Optimal Frequency-Hopping Sequence Sets Based on Cyclotomy. International Journal of Foundations of Computer Science, 2016, 27, 443-462.	1.1	8
36	Further constructions of cyclic subspace codes. Cryptography and Communications, 2021, 13, 245-262.	1.4	8

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37	Infinite Families of 3-Designs and 2-Designs From Almost MDS Codes. IEEE Transactions on Information Theory, 2022, 68, 4344-4353.	2.4	8
38	Pretty good state transfer on Cayley graphs over dihedral groups. Discrete Mathematics, 2020, 343, 111636.	0.7	7
39	More permutation polynomials with Niho exponents which permute <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.svg"><mml:msub><mml:mrow><mml:mi mathvariant="double-struck">F</mml:mi></mml:mrow><mml:mrow><mml:msup><mml:mrow><mml:mi>q</mml:mi></mml:mrow><mml:mi>m</mml:mi> Finite Fields and Their Applications, 2020, 62, 101626.	1.0	7
40	Constructing MDS Galois self-dual constacyclic codes over finite fields. Discrete Mathematics, 2021, 344, 112388.	0.7	7
41	Primitive elements with prescribed trace. Applicable Algebra in Engineering, Communications and Computing, 2014, 25, 339-345.	0.5	6
42	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
43	Optimal Cyclic Codes With Hierarchical Locality. IEEE Transactions on Communications, 2020, 68, 3302-3310.	7.8	6
44	Perfect State Transfer on Weighted Abelian Cayley Graphs. Chinese Annals of Mathematics Series B, 2021, 42, 625-642.	0.4	6
45	Perfect State Transfer on Cayley Graphs over Dihedral Groups: The Non-Normal Case. Electronic Journal of Combinatorics, 2020, 27, .	0.4	6
46	A new method for constructing linear codes with small hulls. Designs, Codes, and Cryptography, 2022, 90, 2663-2682.	1.6	6
47	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		

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55	A construction of linear codes and strongly regular graphs from <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="mml65" display="inline" overflow="scroll" altimg="si65.gif"><mml:mi>q</mml:mi></mml:math>-polynomials. Discrete Mathematics, 2017, 340, 2262-2274.	0.7	4
56	Complete weight enumerators of three classes of linear codes. Cryptography and Communications, 2018, 10, 1091-1108.	1.4	4
57	Optimal p-ary cyclic codes with two zeros. Applicable Algebra in Engineering, Communications and Computing, 2023, 34, 129-138.	0.5	4
58	A family of optimal ternary cyclic codes with minimum distance five and their duals. Cryptography and Communications, 2022, 14, 1-13.	1.4	4
59	Some nonexistence results on generalized difference sets. Applied Mathematics Letters, 2008, 21, 797-802.	2.7	3
60	A note on the moments of Kloosterman sums. Applicable Algebra in Engineering, Communications and Computing, 2009, 20, 447-457.	0.5	3
61	A note on the reducibility of binary affine polynomials. Designs, Codes, and Cryptography, 2010, 57, 83-90.	1.6	3
62	A construction of hyperbent functions with polynomial trace form. Science China Mathematics, 2011, 54, 2229-2234.	1.7	3
63	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
64	New constructions of approximately SIC-POVMs via difference sets. Annals of Physics, 2018, 391, 56-64.	2.8	3
65	On the roots of certain Dickson polynomials. Journal of Number Theory, 2018, 188, 229-246.	0.4	3
66	Complete weight enumerators of a class of linear codes with two weights. Discrete Mathematics, 2018, 341, 525-535.	0.7	3
67	Two constructions of asymptotically optimal codebooks via the trace functions. Cryptography and Communications, 2020, 12, 1195-1211.	1.4	3
68	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
69	Cayley graphs of dihedral groups having perfect edge state transfer. Linear and Multilinear Algebra, 2022, 70, 5957-5972.	1.0	3
70	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
71	Perfect edge state transfer on cubelike graphs. Quantum Information Processing, 2021, 20, 1.	2.2	3
72	Linear codes with few weights from weakly regular plateaued functions. Discrete Mathematics, 2021, 344, 112597.	0.7	3

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73	On the reducibility of some composite polynomials over finite fields. Designs, Codes, and Cryptography, 2012, 64, 229-239.	1.6	2
74	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
75	Quantum codes from Hermitian dual-containing cyclic codes. International Journal of Computer Mathematics: Computer Systems Theory, 2017, 2, 97-109.	1.1	2
76	Two new constructions of approximately SIC-POVMs from multiplicative characters. Quantum Information Processing, 2017, 16, 1.	2.2	2
77	A class of minimal cyclic codes over finite fields. Discrete Mathematics, 2017, 340, 3197-3206.	0.7	2
78	Three deterministic constructions of compressed sensing matrices with low coherence. Cryptography and Communications, 2020, 12, 547-558.	1.4	2
79	A new construction of approximately SIC-POVMs derived from Jacobi sums over finite fields. Quantum Information Processing, 2021, 20, 1.	2.2	2
80	Infinite families of 2â€designs derived from affineâ€invariant codes. Journal of Combinatorial Designs, 2021, 29, 683-702.	0.6	2
81	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
82	Minimal linear codes constructed from functions. Cryptography and Communications, 2022, 14, 875-895.	1.4	2
83	Constructions of Sidon spaces and cyclic subspace codes. Frontiers of Mathematics in China, 2022, 17, 275-288.	0.7	2
84	MORE CONSTRUCTIONS OF APPROXIMATELY MUTUALLY UNBIASED BASES. Bulletin of the Australian Mathematical Society, 2016, 93, 211-222.	0.5	1
85	Two classes of near-optimal frequency-hopping sequence sets with prime-power period. Cryptography and Communications, 2018, 10, 437-454.	1.4	1
86	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
87	Optimal FHSs and DSSs via near zero-difference balanced functions. Discrete Applied Mathematics, 2018, 247, 433-447.	0.9	1
88	A class of affine-invariant codes and their support 2-designs. Cryptography and Communications, 2022, 14, 215-227.	1.4	1
89	Some Results on Generalized Difference Sets. Journal of Systems Science and Complexity, 2008, 21, 76-84.	2.8	0
90	A NOTE ON SOME CHARACTER SUMS OVER FINITEÂFIELDS. Bulletin of the Australian Mathematical Society, 2015, 92, 32-43.	0.5	0

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91	Some arithmetical properties of cyclotomic cosets and their applications. Discrete Mathematics, 2020, 343, 111971.	0.7	0
92	Character sums over a non-chain ring and their applications. Advances in Mathematics of Communications, 2023, 17, 381-403.	0.7	0
93	Estimations on some hybrid exponential sums related to Kloosterman sums. Turkish Journal of Mathematics, 2021, 45, 797-819.	0.7	0
94	Pretty good state transfer on Cayley graphs over semi-dihedral groups. Linear and Multilinear Algebra, 0, , 1-16.	1.0	0
95	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
96	Infinite families of 2-designs from a class of affine-invariant codes. Advances in Mathematics of Communications, 2024, 18, 206-221.	0.7	0