Shixin Zhu

List of Publications by Year in descending order

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75 papers	1,138 citations	516710 16 h-index	434195 31 g-index
76 all docs	76 docs citations	76 times ranked	263 citing authors

#	Article	IF	Citations
1	Constacyclic Codes and Some New Quantum MDS Codes. IEEE Transactions on Information Theory, 2014, 60, 2080-2086.	2.4	157
2	New Quantum MDS Codes From Negacyclic Codes. IEEE Transactions on Information Theory, 2013, 59, 1193-1197.	2.4	141
3	Some Results on Cyclic Codes Over ${F}_{2}+v{F}_{2}$. IEEE Transactions on Information Theory, 2010, 56, 1680-1684.	2.4	70
4	New quantum MDS codes derived from constacyclic codes. Quantum Information Processing, 2015, 14, 881-889.	2.2	68
5	A Construction of New MDS Symbol-Pair Codes. IEEE Transactions on Information Theory, 2015, 61, 5828-5834.	2.4	66
6	Euclidean and Hermitian Hulls of MDS Codes and Their Applications to EAQECCs. IEEE Transactions on Information Theory, 2020, 66, 3527-3537.	2.4	60
7	Entanglement-assisted quantum MDS codes constructed from constacyclic codes. Quantum Information Processing, 2018, 17, 1.	2.2	43
8	A class of negacyclic BCH codes and its application to quantum codes. Designs, Codes, and Cryptography, 2018, 86, 2139-2165.	1.6	29
9	On cyclic self-dual codes. Applicable Algebra in Engineering, Communications and Computing, 2008, 19, 509-525.	0.5	22
10	A family of constacyclic codes over F 2 + uF 2 + vF 2 + uvF 2. Journal of Systems Science and Complexity, 2012, 25, 1032-1040.	2.8	21
11	New MDS Symbol-Pair Codes From Repeated-Root Codes. IEEE Communications Letters, 2018, 22, 462-465.	4.1	21
12	Entanglement-assisted quantum MDS codes from generalized Reedâ€“Solomon codes. Quantum Information Processing, 2019, 18, 1.	2.2	20
13	Optimal constacyclic locally repairable codes. IEEE Communications Letters, 2019, 23, 206-209.	4.1	19
14	General quantum secret sharing scheme based on two qudit. Quantum Information Processing, 2021, 20, 1.	2.2	18
15	Dual and self-dual negacyclic codes of even length over <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" display="inline" overflow="scroll"><mml:msub><mml:mrow><mml:mi mathvariant="double-struck">Z</mml:mi></mml:mrow><mml:mrow><mml:msup><mml:mrow><mml:mn>2</mml:mn></mml:mrow><mml:mn> Discrete Mathematics, 2009, 309, 2382-2391.	0.7	17
16	New quantum codes from dual-containing cyclic codes over finite rings. Quantum Information Processing, 2016, 15, 4489-4500.	2.2	17
17	On the construction of quantum constacyclic codes. Designs, Codes, and Cryptography, 2017, 85, 179-190.	1.6	17
18	On LCD Negacyclic Codes over Finite Fields. Journal of Systems Science and Complexity, 2018, 31, 1065-1077.	2.8	17

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19	A Class of Narrow-Sense BCH Codes. IEEE Transactions on Information Theory, 2019, 65, 4699-4714.	2.4	16
20	The symbol-pair distance distribution of a class of repeated-root cyclic codes over F p m. Cryptography and Communications, 2018, 10, 643-653.	1.4	15
21	Entanglement-assisted quantum MDS codes from cyclic codes. Quantum Information Processing, 2020, 19, 1.	2.2	15
22	A new family of EAQMDS codes constructed from constacyclic codes. Designs, Codes, and Cryptography, 2021, 89, 2179-2193.	1.6	15
23	Cyclic DNA codes over $$mathbb {F}_2+umathbb {F}_2+vmathbb {F}_2+uvmathbb {F}_2$$ F 2 + u F 2. Journal of Applied Mathematics and Computing, 2017, 55, 479-493.	2.5	14
24	$mathbb {Z}_{p}mathbb {Z}_{p^{s}}$-additive cyclic codes are asymptotically good. Cryptography and Communications, 2020, 12, 253-264.	1.4	14
25	(1 â^' uv)-constacyclic codes over $mathbb{F}_p + umathbb{F}_p + vmathbb{F}_p + uvmathbb{F}_p $. Journal of Systems Science and Complexity, 2014, 27, 811-816.	2.8	12
26	Hermitian dual-containing narrow-sense constacyclic BCH codes and quantum codes. Quantum Information Processing, 2019, 18, 1.	2.2	12
27	A class of constacyclic BCH codes. Cryptography and Communications, 2020, 12, 265-284.	1.4	12
28	Quantum Synchronizable Codes From the Cyclotomy of Order Four. IEEE Communications Letters, 2019, 23, 12-15.	4.1	11
29	Cyclic codes and some new entanglement-assisted quantum MDS codes. Designs, Codes, and Cryptography, 2021, 89, 2533-2551.	1.6	11
30	Construction of quantum negacyclic BCH codes. International Journal of Quantum Information, 2018, 16, 1850059.	1.1	10
31	A Class of Optimal Cyclic Codes With Two Zeros. IEEE Communications Letters, 2019, 23, 1293-1296.	4.1	10
32	Some new bounds on LCD codes over finite fields. Cryptography and Communications, 2020, 12, 743-755.	1.4	10
33	Some results on linear codes over the ring $$mathbb {Z}_4+umathbb {Z}_4+vmathbb {Z}_4+uvmathbb {Z}_4$$ Z 4 + u Z 4. Journal of Applied Mathematics and Computing, 2017, 54, 307-324.	2.5	9
34	Negacyclic self-dual codes over finite chain rings. Designs, Codes, and Cryptography, 2012, 62, 161-174.	1.6	8
35	Two Classes of New Optimal Asymmetric Quantum Codes. International Journal of Theoretical Physics, 2018, 57, 1829-1838.	1.2	8
36	Quantum codes from Hermitian dual-containing constacyclic codes over $${mathbb {F}}_{q^{2}}+{v}{mathbb {F}}_{q^{2}}$$. Quantum Information Processing, 2021, 20, 1.	2.2	8

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37	On LCD repeated-root cyclic codes over finite fields. Journal of Applied Mathematics and Computing, 2018, 56, 625-635.	2.5	7
38	Some new entanglement-assisted quantum error-correcting MDS codes from generalized Reedâ€“Solomon codes. Quantum Information Processing, 2020, 19, 1.	2.2	7
39	New entanglement-assisted quantum MDS codes with larger minimum distance. Quantum Information Processing, 2020, 19, 1.	2.2	7
40	On Selfâ€dual and LCD Double Circulant Codes over a Nonâ€chain Ring*. Chinese Journal of Electronics, 2019, 28, 1018-1024.	1.5	7
41	On the construction of optimal asymmetric quantum codes. International Journal of Quantum Information, 2014, 12, 1450017.	1.1	6
42	Three new classes of entanglement-assisted quantum MDS codes from generalized Reedâ€“Solomon codes. Quantum Information Processing, 2019, 18, 1.	2.2	6
43	New EAQMDS codes constructed from negacyclic codes. Quantum Information Processing, 2020, 19, 1.	2.2	6
44	New entanglement-assisted quantum MDS codes with length $$n=rac{q^2+1}{5}$$. Quantum Information Processing, 2020, 19, 1.	2.2	6
45	Nonbinary quantum codes from constacyclic codes over polynomial residue rings. Quantum Information Processing, 2020, 19, 1.	2.2	6
46	The depth spectrum of negacyclic codes over <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="mml1" display="inline" overflow="scroll" altimg="si1.gif"><mml:msub><mml:mrow><mml:mi mathvariant="double-struck">Z</mml:mi></mml:mrow><mml:mrow><mml:mn>4</mml:mn></mml:mrow></mml:msub></mml:math>. Discrete Mathematics, 2017, 340, 345-350.	0.7	5
47	The images of constacyclic codes and new quantum codes. Quantum Information Processing, 2020, 19, 1.	2.2	5
48	On non-binary quantum repeated-root cyclic codes. International Journal of Quantum Information, 2014, 12, 1450010.	1.1	4
49	New optimal quantum convolutional codes. International Journal of Quantum Information, 2015, 13, 1550019.	1.1	4
50	The Weight Distributions of Two Classes of Nonbinary Cyclic Codes With Few Weights. IEEE Communications Letters, 2017, 21, 2336-2339.	4.1	4
51	Entanglement-Assisted Quantum Negacyclic BCH Codes. International Journal of Theoretical Physics, 2019, 58, 1509-1523.	1.2	4
52	Optimal Entanglement-Assisted Quantum Codes With Larger Minimum Distance. IEEE Communications Letters, 2021, 25, 45-48.	4.1	3
53	Four classes of new entanglement-assisted quantum optimal codes. Journal of Applied Mathematics and Computing, 2021, 67, 937-952.	2.5	3
54	A note on negacyclic self-dual codes over <mml:math altimg="si1.gif" display="inline" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/co	0.7	2

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55	On the Gray images of some constacyclic codes over F p + u F p + u 2 F p. Journal of Systems Science and Complexity, 2016, 29, 842-849.	2.8	2
56	Five families of the narrow-sense primitive BCH codes over finite fields. Designs, Codes, and Cryptography, 2021, 89, 2679-2696.	1.6	2
57	Negacyclic codes over Galois rings of characteristic 2 a. Science China Mathematics, 2012, 55, 869-879.	1.7	1
58	On the error linear complexity spectrum of $$p^{n}$$ p n -periodic binary sequences. Applicable Algebra in Engineering, Communications and Computing, 2013, 24, 497-505.	0.5	1
59	Constacyclic codes of arbitrary lengths over ring $$Z_{p^m } + vZ_{p^m }$$. Journal of Electronics, 2014, 31, 222-226.	0.2	1
60	On the depth spectrum of repeated-root constacyclic codes over finite chain rings. Discrete Mathematics, 2020, 343, 111647.	0.7	1
61	A Family of Constacyclic Codes over ? 2 m + u ? 2 m and Its Application to Quantum Codes. Chinese Journal of Electronics, 2020, 29, 114-121.	1.5	1
62	New Quantum Codes Derived from Cyclic Codes. International Journal of Theoretical Physics, 2020, 59, 1058-1068.	1.2	1
63	Some New Entanglement-Assisted Quantum Error-Correcting MDS Codes with Length $rac {q^{2}+1}{13}$. International Journal of Theoretical Physics, 2021, 60, 1843-1857.	1.2	1
64	New Quantum BCH Codes of Length n = r(q2 â^'â€‰1). International Journal of Theoretical Physics, 2021, 60, 172-184.	1.2	1
65	Asymptotically Good Additive Cyclic Codes. Chinese Journal of Electronics, 2020, 29, 859-864.	1.5	1
66	Negacyclic MDS codes over GR(2^a,m). , 2009, , .		0
67	Cryptanalysis of Harn-Ren's multi-signature scheme. , 2010, , .		0
68	A MacWilliams type identity on Lee weight for linear codes over $$mathbb{F}_2 + umathbb{F}_2^*$$. Journal of Systems Science and Complexity, 2012, 25, 186-194.	2.8	0
69	Period distribution of cyclic codes over F q + uF q + â‹¯ + u mâ^'1 F q. Journal of Electronics, 2014, 31, 547-551.	0.2	0
70	On Abelian codes over $${mathbb {Z}}_{m}$$ Z m. Journal of Applied Mathematics and Computing, 2016, 50, 259-273.	2.5	0
71	A class of constacyclic codes over ring R + vR. Journal of Systems Science and Complexity, 2016, 29, 805-813.	2.8	0
72	On the Depth Distribution of Constacyclic Codes over â„¤ 4 of Length 2 e. Chinese Journal of Electronics, 2019, 28, 462-469.	1.5	0

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73	Triple Cyclic Codes Over ?q + u?q. International Journal of Foundations of Computer Science, 2021, 32, 115-135.	1.1	0
74	On Cyclic Codes with Length 2 p e over Finite Fields. Chinese Journal of Electronics, 2020, 29, 672-677.	1.5	0
75	A Construction of Optimal Nonbinary Pure Quantum Stabilizer Codes. International Journal of Theoretical Physics, 2022, 61, 1.	1.2	0