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	A Construction of Optimal Nonbinary Pure Quantum Stabilizer Codes. International Journal of Theoretical Physics, 2022, 61, 1.	1.2	0
2	Optimal Entanglement-Assisted Quantum Codes With Larger Minimum Distance. IEEE Communications Letters, 2021, 25, 45-48.	4.1	3
3	Triple Cyclic Codes Over ?q + u?q. International Journal of Foundations of Computer Science, 2021, 32, 115-135.	1.1	0
4	Four classes of new entanglement-assisted quantum optimal codes. Journal of Applied Mathematics and Computing, 2021, 67, 937-952.	2.5	3
5	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
6	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
7	A new family of EAQMDS codes constructed from constacyclic codes. Designs, Codes, and Cryptography, 2021, 89, 2179-2193.	1.6	15
8	General quantum secret sharing scheme based on two qudit. Quantum Information Processing, 2021, 20, 1.	2.2	18
9	Cyclic codes and some new entanglement-assisted quantum MDS codes. Designs, Codes, and Cryptography, 2021, 89, 2533-2551.	1.6	11
10	New Quantum BCH Codes of Length n = r(q2 â^'â€‰1). International Journal of Theoretical Physics, 2021, 60, 172-184.	1.2	1
11	Five families of the narrow-sense primitive BCH codes over finite fields. Designs, Codes, and Cryptography, 2021, 89, 2679-2696.	1.6	2
12	$mathbb {Z}_{p}mathbb {Z}_{p^{s}}$-additive cyclic codes are asymptotically good. Cryptography and Communications, 2020, 12, 253-264.	1.4	14
13	On the depth spectrum of repeated-root constacyclic codes over finite chain rings. Discrete Mathematics, 2020, 343, 111647.	0.7	1
14	A class of constacyclic BCH codes. Cryptography and Communications, 2020, 12, 265-284.	1.4	12
15	Some new bounds on LCD codes over finite fields. Cryptography and Communications, 2020, 12, 743-755.	1.4	10
16	Entanglement-assisted quantum MDS codes from cyclic codes. Quantum Information Processing, 2020, 19, 1.	2.2	15
17	Euclidean and Hermitian Hulls of MDS Codes and Their Applications to EAQECCs. IEEE Transactions on Information Theory, 2020, 66, 3527-3537.	2.4	60
18	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

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19	New EAQMDS codes constructed from negacyclic codes. Quantum Information Processing, 2020, 19, 1.	2.2	6
20	Some new entanglement-assisted quantum error-correcting MDS codes from generalized Reedâ€“Solomon codes. Quantum Information Processing, 2020, 19, 1.	2.2	7
21	New entanglement-assisted quantum MDS codes with larger minimum distance. Quantum Information Processing, 2020, 19, 1.	2.2	7
22	New entanglement-assisted quantum MDS codes with length $$n=rac{q^2+1}{5}$$. Quantum Information Processing, 2020, 19, 1.	2.2	6
23	The images of constacyclic codes and new quantum codes. Quantum Information Processing, 2020, 19, 1.	2.2	5
24	New Quantum Codes Derived from Cyclic Codes. International Journal of Theoretical Physics, 2020, 59, 1058-1068.	1.2	1
25	Nonbinary quantum codes from constacyclic codes over polynomial residue rings. Quantum Information Processing, 2020, 19, 1.	2.2	6
26	On Cyclic Codes with Length 2 p e over Finite Fields. Chinese Journal of Electronics, 2020, 29, 672-677.	1.5	0
27	Asymptotically Good Additive Cyclic Codes. Chinese Journal of Electronics, 2020, 29, 859-864.	1.5	1
28	A Class of Narrow-Sense BCH Codes. IEEE Transactions on Information Theory, 2019, 65, 4699-4714.	2.4	16
29	Three new classes of entanglement-assisted quantum MDS codes from generalized Reedâ€“Solomon codes. Quantum Information Processing, 2019, 18, 1.	2.2	6
30	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
31	Hermitian dual-containing narrow-sense constacyclic BCH codes and quantum codes. Quantum Information Processing, 2019, 18, 1.	2.2	12
32	A Class of Optimal Cyclic Codes With Two Zeros. IEEE Communications Letters, 2019, 23, 1293-1296.	4.1	10
33	Entanglement-assisted quantum MDS codes from generalized Reedâ€“Solomon codes. Quantum Information Processing, 2019, 18, 1.	2.2	20
34	Entanglement-Assisted Quantum Negacyclic BCH Codes. International Journal of Theoretical Physics, 2019, 58, 1509-1523.	1.2	4
35	Quantum Synchronizable Codes From the Cyclotomy of Order Four. IEEE Communications Letters, 2019, 23, 12-15.	4.1	11
36	Optimal constacyclic locally repairable codes. IEEE Communications Letters, 2019, 23, 206-209.	4.1	19

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37	On Selfâ€dual and LCD Double Circulant Codes over a Nonâ€chain Ring*. Chinese Journal of Electronics, 2019, 28, 1018-1024.	1.5	7
38	On LCD Negacyclic Codes over Finite Fields. Journal of Systems Science and Complexity, 2018, 31, 1065-1077.	2.8	17
39	Two Classes of New Optimal Asymmetric Quantum Codes. International Journal of Theoretical Physics, 2018, 57, 1829-1838.	1.2	8
40	New MDS Symbol-Pair Codes From Repeated-Root Codes. IEEE Communications Letters, 2018, 22, 462-465.	4.1	21
41	On LCD repeated-root cyclic codes over finite fields. Journal of Applied Mathematics and Computing, 2018, 56, 625-635.	2.5	7
42	A class of negacyclic BCH codes and its application to quantum codes. Designs, Codes, and Cryptography, 2018, 86, 2139-2165.	1.6	29
43	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
44	Construction of quantum negacyclic BCH codes. International Journal of Quantum Information, 2018, 16, 1850059.	1.1	10
45	Entanglement-assisted quantum MDS codes constructed from constacyclic codes. Quantum Information Processing, 2018, 17, 1.	2.2	43
46	The Weight Distributions of Two Classes of Nonbinary Cyclic Codes With Few Weights. IEEE Communications Letters, 2017, 21, 2336-2339.	4.1	4
47	On the construction of quantum constacyclic codes. Designs, Codes, and Cryptography, 2017, 85, 179-190.	1.6	17
48	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
49	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
50	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
51	New quantum codes from dual-containing cyclic codes over finite rings. Quantum Information Processing, 2016, 15, 4489-4500.	2.2	17
52	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
53	On Abelian codes over $${mathbb {Z}}_{m}$$ Z m. Journal of Applied Mathematics and Computing, 2016, 50, 259-273.	2.5	0
54	A class of constacyclic codes over ring R + vR. Journal of Systems Science and Complexity, 2016, 29, 805-813.	2.8	0

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55	New quantum MDS codes derived from constacyclic codes. Quantum Information Processing, 2015, 14, 881-889.	2.2	68
56	A Construction of New MDS Symbol-Pair Codes. IEEE Transactions on Information Theory, 2015, 61, 5828-5834.	2.4	66
57	New optimal quantum convolutional codes. International Journal of Quantum Information, 2015, 13, 1550019.	1.1	4
58	On the construction of optimal asymmetric quantum codes. International Journal of Quantum Information, 2014, 12, 1450017.	1.1	6
59	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
60	On non-binary quantum repeated-root cyclic codes. International Journal of Quantum Information, 2014, 12, 1450010.	1.1	4
61	Constacyclic Codes and Some New Quantum MDS Codes. IEEE Transactions on Information Theory, 2014, 60, 2080-2086.	2.4	157
62	(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
63	Constacyclic codes of arbitrary lengths over ring $$Z_{p^m } + vZ_{p^m }$$. Journal of Electronics, 2014, 31, 222-226.	0.2	1
64	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
65	New Quantum MDS Codes From Negacyclic Codes. IEEE Transactions on Information Theory, 2013, 59, 1193-1197.	2.4	141
66	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
67	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
68	Negacyclic codes over Galois rings of characteristic 2 a. Science China Mathematics, 2012, 55, 869-879.	1.7	1
69	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
70	Negacyclic self-dual codes over finite chain rings. Designs, Codes, and Cryptography, 2012, 62, 161-174.	1.6	8
71	Some Results on Cyclic Codes Over ${F}_{2}+v{F}_{2}$. IEEE Transactions on Information Theory, 2010, 56, 1680-1684.	2.4	70
72	Cryptanalysis of Harn-Ren's multi-signature scheme. , 2010, , .		0

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73	Negacyclic MDS codes over GR(2^a,m). , 2009, , .		0
74	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:mrow><mml:mi>r</mml:mi></mml:mrow></mml:msup></mml:mrow></mml:msub></mml:math>. Discrete Mathematics, 2009, 309, 2382-2391.	0.7	17
75	On cyclic self-dual codes. Applicable Algebra in Engineering, Communications and Computing, 2008, 19, 509-525.	0.5	22