Longjiang Qu

List of Publications by Year
in descending order

83	1,061	516710	477307
papers	citations	16	29
		h-index	g-index

84	84	84	257
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Constructing Differentially 4-Uniform Permutations Over <formula formulatype="inline"><tex Notation="TeX">${BBF}_{2^{2k}}$</tex> </formula> via the Switching Method. IEEE Transactions on Information Theory, 2013, 59, 4675-4686.	2.4	81
2	New classes of permutation binomials and permutation trinomials over finite fields. Finite Fields and Their Applications, 2017, 43, 69-85.	1.0	73
3	On the Construction of Boolean Functions With Optimal Algebraic Immunity. IEEE Transactions on Information Theory, 2008, 54, 1330-1334.	2.4	72
4	Constructing Symmetric Boolean Functions With Maximum Algebraic Immunity. IEEE Transactions on Information Theory, 2009, 55, 2406-2412.	2.4	71
5	Permutation Trinomials Over Finite Fields with Even Characteristic. SIAM Journal on Discrete Mathematics, 2015, 29, 79-92.	0.8	69
6	New Results About the Boomerang Uniformity of Permutation Polynomials. IEEE Transactions on Information Theory, 2019, 65, 7542-7553.	2.4	47
7	A Note on Symmetric Boolean Functions With Maximum Algebraic Immunity in Odd Number of Variables. IEEE Transactions on Information Theory, 2007, 53, 2908-2910.	2.4	44
8	A New Method to Compute the 2-Adic Complexity of Binary Sequences. IEEE Transactions on Information Theory, 2014, 60, 2399-2406.	2.4	40
9	Permutation polynomials of the form $cx + Tr_q^l$. Cryptography and Communications, 2018, 10, 531-554.	1.4	29
10	New Insights on AES-Like SPN Ciphers. Lecture Notes in Computer Science, 2016, , 605-624.	1.3	27
11	On the 2m-variable symmetric Boolean functions with maximum algebraic immunity. Science in China Series F: Information Sciences, 2008, 51, 120-127.	1.1	25
12	Three Classes of Minimal Linear Codes Over the Finite Fields of Odd Characteristic. IEEE Transactions on Information Theory, 2019, 65, 7067-7078.	2.4	24
13	New constructions of permutation polynomials of the form $$x^rhleft(x^{q-1}ight) $$ x r h x q. Designs, Codes, and Cryptography, 2018, 86, 2379-2405.	1.6	22
14	On Two-to-One Mappings Over Finite Fields. IEEE Transactions on Information Theory, 2019, 65, 7884-7895.	2.4	22
15	More constructions of differentially 4-uniform permutations on $${mathbb {F}}_{2^{2k}}$$ F 2 2 k. Designs, Codes, and Cryptography, 2016, 78, 391.	1.6	21
16	Compositional inverses of permutation polynomials of the form xrh(xs) over finite fields. Cryptography and Communications, 2019, 11, 279-298.	1.4	19
17	2-Adic complexity of binary sequences with interleaved structure. Finite Fields and Their Applications, 2015, 33, 14-28.	1.0	18
18	On a conjecture about a class of permutation quadrinomials. Finite Fields and Their Applications, 2020, 66, 101690.	1.0	18

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19	Cryptographically strong permutations from the butterfly structure. Designs, Codes, and Cryptography, 2021, 89, 737-761.	1.6	16
20	New permutation trinomials constructed from fractional polynomials. Acta Arithmetica, 2018, 183, 101-116.	0.4	16
21	Balanced $2p$-variable rotation symmetric Boolean functions with maximum algebraic immunity. Applied Mathematics Letters, 2011, 24, 2093-2096.	2.7	15
22	Minimal linear codes from Maiorana-McFarland functions. Finite Fields and Their Applications, 2020, 65, 101688.	1.0	15
23	Construction of Rotation Symmetric Boolean Functions with Maximum Algebraic Immunity. Lecture Notes in Computer Science, 2009, , 402-412.	1.3	15
24	New constructions of semi-bent functions in polynomial forms. Mathematical and Computer Modelling, 2013, 57, 1139-1147.	2.0	14
25	New constructions of involutions over finite fields. Cryptography and Communications, 2020, 12, 165-185.	1.4	14
26	On the Covering Structures of Two Classes of Linear Codes From Perfect Nonlinear Functions. IEEE Transactions on Information Theory, 2009, 55, 70-82.	2.4	13
27	Constructions of negabent functions over finite fields. Cryptography and Communications, 2017, 9, 165-180.	1.4	12
28	On the number of rotation symmetric Boolean functions. Science China Information Sciences, 2010, 53, 537-545.	4.3	11
29	Linear complexity of binary sequences with interleaved structure. IET Communications, 2013, 7, 1688-1696.	2.2	11
30	A note on linearized polynomials and the dimension of their kernels. Finite Fields and Their Applications, 2012, 18, 56-62.	1.0	10
31	Binary Linear Codes With Few Weights From Two-to-One Functions. IEEE Transactions on Information Theory, 2021, 67, 4263-4275.	2.4	10
32	Finding Compositional Inverses of Permutations From the AGW Criterion. IEEE Transactions on Information Theory, 2021, 67, 4975-4985.	2.4	10
33	New Cryptanalysis of Block Ciphers with Low Algebraic Degree. Lecture Notes in Computer Science, 2009, , 180-192.	1.3	9
34	Construction of odd-Variable Rotation Symmetric Boolean Functions with Maximum Algebraic Immunity. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2016, E99.A, 853-855.	0.3	9
35	Further Study of 2-to-1 Mappings Over F_{2^n}. IEEE Transactions on Information Theory, 2021, 67, 3486-3496.	2.4	9
36	Construction of even-variable rotation symmetric Boolean functions with maximum algebraic immunity. Science China Information Sciences, 2013, 56, 1-9.	4.3	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	New constructions of q-variable 1-resilient rotation symmetric functions over $\mathbb{F}_p$. Science China Information Sciences, 2016, 59, 1.	4.3	7
39	Differential and boomerang spectrums of some power permutations. Cryptography and Communications, 0, , 1.	1.4	7
40	Minimal linear codes from weakly regular bent functions. Cryptography and Communications, 2022, 14, 415-431.	1.4	7
41	SQUARE attack on block ciphers with low algebraic degree. Science China Information Sciences, 2010, 53, 1988-1995.	4.3	6
42	Construction of highly nonlinear resilient S-boxes with given degree. Designs, Codes, and Cryptography, 2012, 64, 241-253.	1.6	6
43	A New Approach to Constructing Quadratic Pseudo-Planar Functions Over $\mathbb{F}_{2^{n}}$. IEEE Transactions on Information Theory, 2016, 62, 6644-6658.	2.4	5
44	Construction of Odd-Variable Resilient Boolean Functions with Optimal Degree. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2011, E94-A, 265-267.	0.3	5
45	Autocorrelations of Vectorial Boolean Functions. Lecture Notes in Computer Science, 2021, , 233-253.	1.3	4
46	Two New Families of Quadratic APN Functions. IEEE Transactions on Information Theory, 2022, 68, 4761-4769.	2.4	4
47	A negative answer to Brackenâ€"Tanâ€"Tan's problem on differentially 4-uniform permutations overF2n. Finite Fields and Their Applications, 2013, 24, 55-65.	1.0	3
48	On the Fourier Spectra of New APN Functions. SIAM Journal on Discrete Mathematics, 2013, 27, 791-801.	0.8	3
49	Some results on the differential functions over finite fields. Applicable Algebra in Engineering, Communications and Computing, 2014, 25, 189-195.	0.5	3
50	A recursive construction of highly nonlinear resilient vectorial functions. Information Sciences, 2014, 269, 388-396.	6.9	3
51	An equivalent condition on the switching construction of differentially 4-uniform permutations on from the inverse function. International Journal of Computer Mathematics, 2017, 94, 1252-1267.	1.8	3
52	On equivalence between known polynomial APN functions and power APN functions. Finite Fields and Their Applications, 2021, 71, 101762.	1.0	3
53	A New Construction of Boolean Functions with Maximum Algebraic Immunity. Lecture Notes in Computer Science, 2009, , 177-185.	1.3	3
54	Enumeration of balanced symmetric functions over. Information Processing Letters, 2010, 110, 544-548.	0.6	2

#	ARTICLE	IF	CITATIONS
55	Multi-objective memetic evolution of ART-based classifiers. , 2010, , .		2
56	NEW CONSTRUCTIONS OF VECTORIAL BOOLEAN FUNCTIONS WITH GOOD CRYPTOGRAPHIC PROPERTIES. International Journal of Foundations of Computer Science, 2012, 23, 749-760.	1.1	2
57	On the number of rotation symmetric functions over $GF(p)$... Mathematical and Computer Modelling, 2012, 55, 142-150.	2.0	2
58	On the differential uniformities of functions over finite fields. Science China Mathematics, 2013, 56, 1477-1484.	1.7	2
59	On the Walsh spectrum of a family of quadratic APN functions with five terms. Science China Information Sciences, 2014, 57, 1-7.	4.3	2
60	A better bound for implicit factorization problem with shared middle bits. Science China Information Sciences, 2018, 61, 1.	4.3	2
61	Further study of 2-to-1 mappings over F_2^n. , 2019, , .		2
62	A new algorithm on the minimal rational fraction representation of feedback with carry shift registers. Designs, Codes, and Cryptography, 2020, 88, 533-552.	1.6	2
63	A link between two classes of permutation polynomials. Finite Fields and Their Applications, 2020, 63, 101641.	1.0	2
64	New Constructions of Complete Permutations. IEEE Transactions on Information Theory, 2021, , 1-1.	2.4	2
65	A Complete Characterization of the APN Property of a Class of Quadrinomials. IEEE Transactions on Information Theory, 2021, 67, 7535-7549.	2.4	2
66	Generalized Construction of Boolean Function with Maximum Algebraic Immunity Using Univariate Polynomial Representation. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2013, E96.A, 360-362.	0.3	2
67	Weight Support Technique and the Symmetric Boolean Functions with Maximum Algebraic Immunity on Even Number of Variables. Lecture Notes in Computer Science, 2007, , 271-282.	1.3	2
68	A New Construction of Low-Correlation Zone Sequence Sets. , 2012, , .		1
69	New construction of perfect sequence set and low correlation zone sequence set. Science China Information Sciences, 2013, 56, 1-8.	4.3	1
70	New Results on the Boolean Functions That Can Be Expressed as the Sum of Two Bent Functions. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2016, E99.A, 1584-1590.	0.3	1
71	A new method to investigate the CCZ-equivalence between functions with low differential uniformity. Finite Fields and Their Applications, 2016, 42, 165-186.	1.0	1
72	Constructing infinite families of low differential uniformity (n,Âm)-functions with $$m>n/2$$ $m > n / 2$. Designs, Codes, and Cryptography, 2019, 87, 1577-1599.	1.6	1

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73	Further study of planar functions in characteristic two. Journal of Algebra, 2021, 573, 712-740.	0.7	1
74	Minimum Distance between Bent and Resilient Boolean Functions. Lecture Notes in Computer Science, 2009, , 219-232.	1.3	1
75	On the Balanced Elementary Symmetric Boolean Functions. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2013, E96.A, 663-665.	0.3	1
76	Impossible Differential Cryptanalysis of SNAKE-2. , 2009, , .		0
77	Vulnerable Public Keys in NTRU Cryptosystem. Chinese Annals of Mathematics Series B, 2020, 41, 657-664.	0.4	0
78	The number of affine equivalent classes and extended affine equivalent classes of vectorial Boolean functions. Discrete Applied Mathematics, 2021, 289, 477-491.	0.9	0
79	More permutations and involutions for constructing bent functions. Cryptography and Communications, 2021, 13, 459-473.	1.4	0
80	Construction of Odd-Variable Boolean Function with Maximum Algebraic Immunity. Lecture Notes in Computer Science, 2009, , 109-117.	1.3	0
81	A Comment on Algebraic Immunity of the Sum of Two Boolean Functions. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2012, E95.A, 1187-1188.	0.3	0
82	A New Construction of (m+k,m)-Functions with Low Differential Uniformity. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2020, E103.A, 850-855.	0.3	0
83	On two conjectures about the intersection distribution. Journal of Algebraic Combinatorics, 0, , 1.	0.8	0