Zhengchun Zhou

List of Publications by Year
in descending order

124	2,379	236925 25	254184 43
papers	citations	h-index	g-index

124	124	124	749
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	HpGAN: Sequence Search With Generative Adversarial Networks. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 4944-4956.	11.3	2
2	A new family of polyphase sequences with low correlation. Cryptography and Communications, 2022, 14, 135-144.	1.4	3
3	Constructions of Non-Contiguous Complementary Sequence Sets and Their Applications. IEEE Transactions on Wireless Communications, 2022, 21, 4871-4882.	9.2	2
4	Asymptotically Optimal and Near-Optimal Aperiodic Quasi-Complementary Sequence Sets Based on Florentine Rectangles. IEEE Transactions on Communications, 2022, 70, 1475-1485.	7.8	8
5	New z-complementary/complementary sequence sets with non-power-of-two length and low PAPR. Cryptography and Communications, 2022, 14, 817-832.	1.4	4
6	Constructions of Optimal Uniform Wide-Gap Frequency-Hopping Sequences. IEEE Transactions on Information Theory, 2022, 68, 692-700.	2.4	11
7	A class of almost MDS codes. Finite Fields and Their Applications, 2022, 79, 101996.	1.0	8
8	Low Ambiguity Zone: Theoretical Bounds and Doppler-Resilient Sequence Design in Integrated Sensing and Communication Systems. IEEE Journal on Selected Areas in Communications, 2022, 40, 1809-1822.	14.0	11
9	Full Mean-Square Analysis of Affine Combination of Two Complex-Valued LMS Filters for Second-Order Non-Circular Inputs. IEEE Signal Processing Letters, 2022, 29, 1157-1161.	3.6	4
10	New Construction of Optimal Type-II Binary Z-Complementary Pairs. IEEE Transactions on Information Theory, 2021, 67, 3497-3508.	2.4	11
11	A Tighter Correlation Lower Bound for Quasi-Complementary Sequence Sets with Low Correlation Zone. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2021, E104.A, 392-398.	0.3	0
12	Sequences with Low Partial-Period Autocorrelation Sidelobes Constructed via Optimization Method. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2021, E104.A, 384-391.	0.3	0
13	Two Classes of Z-Complementary Code Sets With Good Cross-Correlation Subsets via Paraunitary Matrices. IEEE Transactions on Communications, 2021, 69, 2935-2947.	7.8	6
14	Full Characterization of Minimal Linear Codes as Cutting Blocking Sets. IEEE Transactions on Information Theory, 2021, 67, 3690-3700.	2.4	25
15	Cyclic LRCs with Availability from Linearized Polynomials. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2021, E104.A, 991-995.	0.3	0
16	Three-phase Z-complementary triads and almost complementary triads. Cryptography and Communications, 2021, 13, 763-773.	1.4	2
17	Quasi-Orthogonal Z-Complementary Pairs and Their Applications in Fully Polarimetric Radar Systems. IEEE Transactions on Information Theory, 2021, 67, 4876-4890.	2.4	9
18	A Generalized Construction of Mutually Orthogonal Complementary Sequence Sets With Non-Power-of-Two Lengths. IEEE Transactions on Communications, 2021, 69, 4247-4253.	7.8	7

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19	Construction of Golay-ZCZ Sequences with New Lengths. , 2021, , .		4
20	Orthogonal Least Squares Detector for Generalized Spatial Modulation. IEEE Transactions on Wireless Communications, 2021, 20, 5071-5082.	9.2	3
21	A hybrid algorithm for the search of long binary sequences with low aperiodic autocorrelations. Soft Computing, 2021, 25, 12725-12744.	3.6	2
22	Investigations on c-(Almost) Perfect Nonlinear Functions. IEEE Transactions on Information Theory, 2021, 67, 6916-6925.	2.4	25
23	Signal Design with Low/Zero Ambiguity Zone Characteristics for Joint Radar-Communication Systems. , 2021, , .		0
24	Constructions of Binary Signature Sets With Optimal Odd Total Squared Correlation and Their Application to Device Activity Detection. IEEE Transactions on Intelligent Transportation Systems, 2021, , 1-13.	8.0	2
25	A new lower bound on the second-order nonlinearity of a class of monomial bent functions. Cryptography and Communications, 2020, 12, 77-83.	1.4	8
26	Two constructions for 16-QAM complementary sequence sets with non-power-of-two length. Cryptography and Communications, 2020, 12, 349-362.	1.4	1
27	Pilot Design for BEM-Based Channel Estimation in Doubly Selective Channel. IEEE Transactions on Vehicular Technology, 2020, 69, 1679-1694.	6.3	9
28	New Complementary Sets With Low PAPR Property Under Spectral Null Constraints. IEEE Transactions on Information Theory, 2020, 66, 7022-7032.	2.4	7
29	Constructions of Cross Z-Complementary Pairs With New Lengths. IEEE Transactions on Signal Processing, 2020, 68, 4700-4712.	5.3	13
30	BEM-PSP for Single-Carrier and SC-FDMA Communication Over a Doubly Selective Fading Channel. IEEE Transactions on Wireless Communications, 2020, 19, 3924-3937.	9.2	12
31	A Generalized Construction of Multiple Complete Complementary Codes and Asymptotically Optimal Aperiodic Quasi-Complementary Sequence Sets. IEEE Transactions on Communications, 2020, 68, 3564-3571.	7.8	15
32	Editorial: Special issue on sequences and their applications 2018. Cryptography and Communications, 2020, 12, 321-323.	1.4	0
33	A Construction of Binary Golay Complementary Sets Based on Even-Shift Complementary Pairs. IEEE Access, 2020, 8, 29882-29890.	4.2	10
34	Two classes of optimal LRCs with information (r,Ât)-locality. Designs, Codes, and Cryptography, 2020, 88, 1741-1757.	1.6	4
35	Low-PMEPR Preamble Sequence Design for Dynamic Spectrum Allocation in OFDMA Systems. IEEE Transactions on Communications, 2020, 68, 2922-2933.	7.8	5
36	Generalized Constructions of Complementary Sets of Sequences of Lengths Non-Power-of-Two. IEEE Signal Processing Letters, 2020, 27, 136-140.	3.6	12

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37	Binary LCD Codes and Self-Orthogonal Codes From a Generic Construction. IEEE Transactions on Information Theory, 2019, 65, 16-27.	2.4	38
38	Strong No-Hit-Zone Sequences for Improved Quasi-Orthogonal FHMA Systems: Sequence Design and Performance Analysis. IEEE Transactions on Communications, 2019, 67, 5336-5345.	7.8	13
39	Sparse Signal Recovery With Minimization of 1-Norm Minus 2-Norm. IEEE Transactions on Vehicular Technology, 2019, 68, 6847-6854.	6.3	40
40	Unimodular Sequence Design with Good Local Auto- and Cross-Ambiguity Function for MSPSR System. , 2019, , .		4
41	Differential Spectrum of Kasami Power Permutations Over Odd Characteristic Finite Fields. IEEE Transactions on Information Theory, 2019, 65, 6819-6826.	2.4	15
42	Deterministic Compressed Sensing Matrices From Sequences With Optimal Correlation. IEEE Access, 2019, 7, 16704-16710.	4.2	10
43	Optimization Method for Designing Sequences With Low Partial-period Autocorrelation Sidelobes. , 2019, , .		1
44	New Sets of Even-Length Binary Z-Complementary Pairs. , 2019, , .		6
45	4q-QAM Complementary Sequence Sets with Non-Power-of-Two Length*. , 2019, , .		1
46	Large Zero Correlation Zones of Golay Complementary Sets. , 2019, , .		1
47	New Constructions of Binary (Near) Complementary Sets. , 2019, , .		1
48	New Optimal Binary Z-Complementary Pairs of Odd Length 2^m+3. IEEE Signal Processing Letters, 2019, 26, 1931-1934.	3.6	21
49	Optimal Cyclic Locally Repairable Codes via Cyclotomic Polynomials. IEEE Communications Letters, 2019, 23, 202-205.	4.1	20
50	Sharp sufficient conditions for stable recovery of block sparse signals by block orthogonal matching pursuit. Applied and Computational Harmonic Analysis, 2019, 47, 948-974.	2.2	44
51	Three-weight ternary linear codes from a family of cyclic difference sets. Designs, Codes, and Cryptography, 2018, 86, 2513-2523.	1.6	13
52	A Family of Polyphase Sequences With Asymptotically Optimal Correlation. IEEE Transactions on Information Theory, 2018, 64, 2896-2900.	2.4	14
53	New quaternary sequences of even length with optimal auto-correlation. Science China Information Sciences, 2018, 61, 1.	4.3	16
54	Minimal Binary Linear Codes. IEEE Transactions on Information Theory, 2018, 64, 6536-6545.	2.4	55

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55	The weight distribution of a class of two-weight linear codes derived from Kloosterman sums. Cryptography and Communications, 2018, 10, 291-299.	1.4	12
56	Two infinite classes of rotation symmetric bent functions with simple representation. Applicable Algebra in Engineering, Communications and Computing, 2018, 29, 197-208.	0.5	1
57	Two Constructions of Quaternary Periodic Complementary Pairs. IEEE Communications Letters, 2018, 22, 2507-2510.	4.1	8
58	An Optimal Condition for the Block Orthogonal Matching Pursuit Algorithm. IEEE Access, 2018, 6, 38179-38185.	4.2	21
59	A Construction of Multiple Optimal ZCZ Sequence Sets With Good Cross Correlation. IEEE Transactions on Information Theory, 2018, 64, 1340-1346.	2.4	34
60	A family of optimal ternary cyclic codes from the Niho-type exponent. Finite Fields and Their Applications, 2018, 54, 101-112.	1.0	26
61	Minimal linear codes over finite fields. Finite Fields and Their Applications, 2018, 54, 176-196.	1.0	74
62	Improved Sufficient Conditions for Support Recovery of Sparse Signals Via Orthogonal Matching Pursuit. IEEE Access, 2018, 6, 30437-30443.	4.2	7
63	The dimension and minimum distance of two classes of primitive BCH codes. Finite Fields and Their Applications, 2017, 45, 237-263.	1.0	59
64	Zero-Difference Balanced Functions With New Parameters and Their Applications. IEEE Transactions on Information Theory, 2017, 63, 4379-4387.	2.4	15
65	A Novel Sufficient Condition for Generalized Orthogonal Matching Pursuit. IEEE Communications Letters, 2017, 21, 805-808.	4.1	36
66	Parameters of 2-Designs from Some BCH Codes. Lecture Notes in Computer Science, 2017, , 110-127.	1.3	8
67	A Sharp Condition for Exact Support Recovery With Orthogonal Matching Pursuit. IEEE Transactions on Signal Processing, 2017, 65, 1370-1382.	5.3	143
68	Generic Construction of Bent Functions and Bent Idempotents With Any Possible Algebraic Degrees. IEEE Transactions on Information Theory, 2017, 63, 6149-6157.	2.4	25
69	Binary linear codes from vectorial boolean functions and their weight distribution. Discrete Mathematics, 2017, 340, 3055-3072.	0.7	13
70	Autocorrelation of the Modified Binary Two-Prime Sidelnikov Sequence. International Journal of Foundations of Computer Science, 2017, 28, 391-409.	1.1	1
71	Construction of Highly Nonlinear 1-Resilient Boolean Functions with Optimal Algebraic Immunity and Provably High Fast Algebraic Immunity. IEEE Transactions on Information Theory, 2017, , 1-1.	2.4	14
72	Preface: Special functions and codes. Cryptography and Communications, 2017, 9, 1-2.	1.4	2

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73	A sharp condition for exact support recovery of sparse signals with orthogonal matching pursuit. , 2016, , .		19
74	A Construction of Codebooks Nearly Achieving the Levenstein Bound. IEEE Signal Processing Letters, 2016, 23, 1306-1309.	3.6	15
75	Two classes of zero difference balanced functions and their optimal constant composition codes. , 2016, , .		3
76	Weight distribution of cyclic codes with arbitrary number of generalized Niho type zeroes. Designs, Codes, and Cryptography, 2016, 78, 713-730.	1.6	9
77	Linear codes with two or three weights from quadratic Bent functions. Designs, Codes, and Cryptography, 2016, 81, 283-295.	1.6	104
78	Linear Codes With Two or Three Weights From Weakly Regular Bent Functions. IEEE Transactions on Information Theory, 2016, 62, 1166-1176.	2.4	115
79	Strictly Optimal Frequency-Hopping Sequence Sets With Optimal Family Sizes. IEEE Transactions on Information Theory, 2016, 62, 1087-1093.	2.4	24
80	A class of optimal ternary cyclic codes and their duals. Finite Fields and Their Applications, 2016, 37, 193-202.	1.0	27
81	Three-weight cyclic codes and their weight distributions. Discrete Mathematics, 2016, 339, 415-427.	0.7	81
82	On a conjecture about a class of optimal ternary cyclic codes. , 2015, , .		18
83	Binary signature set with optimal odd periodic total squared correlation. , 2015, , .		0
84	A Generic Construction of Z-Periodic Complementary Sequence Sets with Flexible Flock Size and Zero Correlation Zone Length. IEEE Signal Processing Letters, 2015, 22, 1462-1466.	3.6	28
85	The Bose and Minimum Distance of a Class of BCH Codes. IEEE Transactions on Information Theory, 2015, 61, 2351-2356.	2.4	60
86	Binary sequences with optimal odd periodic autocorrelation. , 2015, , .		5
87	The Autocorrelation Magnitude of Balanced Binary Sequence Pairs of Prime Period		

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91	New sets of frequency-hopping sequences with optimal Hamming correlation. Designs, Codes, and Cryptography, 2014, 72, 423-434.	1.6	20
92	A class of three-weight cyclic codes. Finite Fields and Their Applications, 2014, 25, 79-93.	1.0	123
93	New Classes of Optimal Low Hit Zone Frequency Hopping Sequences with New Parameters. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2014, E97.A, 2567-2571.	0.3	3
94	A new frequency-hopping sequence set based upon generalized cyclotomy. Designs, Codes, and Cryptography, 2013, 69, 247-259.	1.6	15
95	Seven Classes of Three-Weight Cyclic Codes. IEEE Transactions on Communications, 2013, 61, 4120-4126.	7.8	56
96	Optimal frequency hopping sequence sets from MDS codes. , 2013, , .		1
97	A Family of Five-Weight Cyclic Codes and Their Weight Enumerators. IEEE Transactions on Information Theory, 2013, 59, 6674-6682.	2.4	64
98	New classes of optimal frequency hopping sequences with low hit zone. Advances in Mathematics of Communications, 2013, 7, 293-310.	0.7	16
99	Five Families of Three-Weight Ternary Cyclic Codes and Their Duals. IEEE Transactions on Information Theory, 2013, 59, 7940-7946.	2.4	23
100	The Weight Enumerator of Three Families of Cyclic Codes. IEEE Transactions on Information Theory, 2013, 59, 6002-6009.	2.4	11
101	On The Average Partial Hamming Correlation of Frequency-Hopping Sequences. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2013, E96.A, 1010-1013.	0.3	7
102	New constructions of optimal frequency hopping sequences with new parameters. Advances in Mathematics of Communications, 2013, 7, 91-101.	0.7	9
103	Perfect Gaussian Integer Sequences of Odd Prime Length. IEEE Signal Processing Letters, 2012, 19, 615-618.	3.6	37
104	Frequency/time hopping sequence sets with optimal partial Hamming correlation properties. Science China Information Sciences, 2012, 55, 2207-2215.	4.3	17
105	A Hybrid Incomplete Exponential Sum With Application to Aperiodic Hamming Correlation of Some Frequency-Hopping Sequences. IEEE Transactions on Information Theory, 2012, 58, 6610-6615.	2.4	10
106	New Classes of Frequency-Hopping Sequences With Optimal Partial Correlation. IEEE Transactions on Information Theory, 2012, 58, 453-458.	2.4	62
107	Some New Classes of Zero-Difference Balanced Functions. IEEE Transactions on Information Theory, 2012, 58, 139-145.	2.4	32
108	On the Aperiodic Hamming Correlation of Frequency-Hopping Sequences from Norm Functions. Lecture Notes in Computer Science, 2012, , 148-158.	1.3	1

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109	On the optimality of ZCZ sequence sets. , 2011, , .		4
110	New classes of optimal frequency hopping sequences with low hit zone with new parameters. , 2011, , .		3
111	New Constructions for Optimal Sets of Frequency-Hopping Sequences. IEEE Transactions on Information Theory, 2011, 57, 3831-3840.	2.4	62
112	Generalized modified Gold sequences. Designs, Codes, and Cryptography, 2011, 60, 241-253.	1.6	8
113	New p-ary sequence family with low correlation and large linear span. Applicable Algebra in Engineering, Communications and Computing, 2011, 22, 301-309.	0.5	3
114	New nearly optimal codebooks from relative difference sets. Advances in Mathematics of Communications, 2011, 5, 521-527.	0.7	34
115	Optimal and perfect difference systems of sets from q-ary sequences with difference-balanced property. Designs, Codes, and Cryptography, 2010, 57, 215-223.	1.6	7
116	A Large Class of p-Ary Cyclic Codes and Sequence Families. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2010, E93-A, 2272-2277.	0.3	0
117	New Optimal Quadriphase Zero Correlation Zone Sequence Sets With Mismatched Filtering. IEEE Signal Processing Letters, 2009, 16, 636-639.	3.6	4
118	Classification of optimal quaternary low correlation zone sequence sets. , 2009, , .		1
119	A new construction of optimal frequency hopping sequence sets. , 2009, , .		2
120	New Families of Binary Sequences with Low Correlation and Large Size. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2009, E92-A, 291-297.	0.3	2
121	A New Class of Sequences With Zero or Low Correlation Zone Based on Interleaving Technique. IEEE Transactions on Information Theory, 2008, 54, 4267-4273.	2.4	93
122	A new family of optimal zero correlation zone sequences from Perfect Sequences Based on Interleaved Technique. , 2007, , .		4
123	A New Class of Sequences with Zero Correlation Zone Based on Interleaved Perfect Sequences. , 2006, , .		3
124	A New Class of Sequences with Zero Correlation Zone Based on Interleaved Perfect Sequences. , 2006, , .		3