Vladimir D Tonchev

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/8045840/publications.pdf

Version: 2024-02-01



#	Article	IF	CITATIONS
1	Entanglement-assisted quantum low-density parity-check codes. Physical Review A, 2010, 82, .	2.5	58
2	A Characterization of Entanglement-Assisted Quantum Low-Density Parity-Check Codes. IEEE Transactions on Information Theory, 2013, 59, 3347-3353.	2.4	41
3	Quasi-symmetric 2-(31, 7, 7) designs and a revision of Hamada's conjecture. Journal of Combinatorial Theory - Series A, 1986, 42, 104-110.	0.8	39
4	Partitions of difference sets and code synchronization. Finite Fields and Their Applications, 2005, 11, 601-621.	1.0	37
5	Exponential number of quasi-symmetric SDP designs and codes meeting the Grey-Rankin bound. Designs, Codes, and Cryptography, 1991, 1, 247-253.	1.6	36
6	On Conflict-Avoiding Codes of Length \$n=4m\$ for Three Active Users. IEEE Transactions on Information Theory, 2007, 53, 2732-2742.	2.4	35
7	Quasi-symmetric designs, codes, quadrics, and hyperplane sections. Geometriae Dedicata, 1993, 48, 295-308.	0.3	34
8	Classification of affine resolvable 2-(27, 9, 4) designs. Journal of Statistical Planning and Inference, 1996, 56, 187-202.	0.6	34
9	On symmetric and quasi-symmetric designs with the symmetric difference property and their codes. Journal of Combinatorial Theory - Series A, 1992, 59, 40-50.	0.8	30
10	Hyperplane partitions and difference systems of sets. Journal of Combinatorial Theory - Series A, 2006, 113, 1689-1698.	0.8	30
11	Self-orthogonal designs and extremal doubly even codes. Journal of Combinatorial Theory - Series A, 1989, 52, 197-205.	0.8	27
12	Polarities, quasi-symmetric designs, and Hamada's conjecture. Designs, Codes, and Cryptography, 2009, 51, 131-140.	1.6	27
13	Algebraic techniques in designing quantum synchronizable codes. Physical Review A, 2013, 88, .	2.5	27
14	Spreads in strongly regular graphs. Designs, Codes, and Cryptography, 1996, 8, 145-157.	1.6	26
15	Symmetric (4,4)-Nets and Generalized Hadamard Matrices Over Groups of Order 4. Designs, Codes, and Cryptography, 2005, 34, 71-87.	1.6	26
16	Difference systems of sets and cyclotomy. Discrete Mathematics, 2008, 308, 2959-2969.	0.7	26
17	Quasi-symmetric Designs and Self-dual Codes. European Journal of Combinatorics, 1986, 7, 67-73.	0.8	25
18	Bounds on the Number of Affine, Symmetric, and Hadamard Designs and Matrices. Journal of Combinatorial Theory - Series A, 2000, 92, 186-196.	0.8	24

#	Article	IF	CITATIONS
19	A design and a code invariant under the simple group Co3. Journal of Combinatorial Theory - Series A, 1993, 62, 225-233.	0.8	23
20	Error-correcting codes from graphs. Discrete Mathematics, 2002, 257, 549-557.	0.7	22
21	Hadamard matrices of order 28 with automorphisms of order 13. Journal of Combinatorial Theory - Series A, 1983, 35, 43-57.	0.8	21
22	An algorithm for optimal difference systems of sets. Journal of Combinatorial Optimization, 2007, 14, 165-175.	1.3	21
23	Unitals and codes. Discrete Mathematics, 2003, 267, 23-33.	0.7	20
24	On symmetric nets and generalized Hadamard matrices from affine designs. Journal of Geometry, 2000, 67, 180-187.	0.4	19
25	Bush-type Hadamard matrices and symmetric designs. Journal of Combinatorial Designs, 2001, 9, 72-78.	0.6	19
26	Designs with the symmetric difference property on 64 points and their groups. Journal of Combinatorial Theory - Series A, 1994, 67, 23-43.	0.8	18
27	Title is missing!. Designs, Codes, and Cryptography, 2001, 24, 225-232.	1.6	18
28	Self-orthogonal codes from symmetric designs with fixed-point-free automorphisms. Discrete Mathematics, 2003, 264, 81-90.	0.7	18
29	Hadamard matrices of order 28 with automorphisms of order 7. Journal of Combinatorial Theory - Series A, 1985, 40, 62-81.	0.8	17
30	A characterization of designs related to the Witt systemS(5,8,24). Mathematische Zeitschrift, 1986, 191, 225-230.	0.9	17
31	The existence of extremal self-dual [50,25,10] codes and quasi-symmetric 2-(49,9,6) designs. Designs, Codes, and Cryptography, 1995, 6, 97-106.	1.6	17
32	High-Rate Self-Synchronizing Codes. IEEE Transactions on Information Theory, 2013, 59, 2328-2335.	2.4	17
33	Steiner triple systems of order 15 and their codes. Journal of Statistical Planning and Inference, 1997, 58, 207-216.	0.6	16
34	Linear Codes and the Existence of a Reversible Hadamard Difference Set inZ2×Z2×Z45. Journal of Combinatorial Theory - Series A, 1997, 79, 161-167.	0.8	16
35	Bent Vectorial Functions, Codes and Designs. IEEE Transactions on Information Theory, 2019, 65, 7533-7541.	2.4	16
36	Linear Perfect Codes and a Characterization of the Classical Designs. Designs, Codes, and Cryptography, 1999, 17, 121-128.	1.6	15

#	Article	IF	CITATIONS
37	Perfect Codes and Balanced Generalized Weighing Matrices. Finite Fields and Their Applications, 1999, 5, 294-300.	1.0	15
38	A Mass Formula for Steiner Triple Systems STS(2nâ~'1) of 2-Rank 2nâ~'n. Journal of Combinatorial Theory - Series A, 2001, 95, 197-208.	0.8	15
39	A formula for the number of Steiner quadruple systems on 2n points of 2-rank 2n?n. Journal of Combinatorial Designs, 2003, 11, 260-274.	0.6	15
40	Extremal self-dual codes from symmetric designs. Discrete Mathematics, 1992, 110, 265-268.	0.7	14
41	Perfect Codes and Balanced Generalized Weighing Matrices, II. Finite Fields and Their Applications, 2002, 8, 155-165.	1.0	14
42	Quantum codes from caps. Discrete Mathematics, 2008, 308, 6368-6372.	0.7	14
43	The number of designs with geometric parameters grows exponentially. Designs, Codes, and Cryptography, 2010, 55, 131-140.	1.6	14
44	Hadamard matrices of order 36 with automorphisms of order 17. Nagoya Mathematical Journal, 1986, 104, 163-174.	0.8	13
45	Unital designs in planes of order 16. Discrete Applied Mathematics, 2000, 102, 151-158.	0.9	13
46	A Characterization of Designs Related to an Extremal Doubly-Even Self-Dual Code of Length 48. Annals of Combinatorics, 2005, 9, 189-198.	0.6	13
47	A new quasi-symmetric 2-(56,16,6) design obtained from codes. Discrete Mathematics, 2004, 284, 231-234.	0.7	12
48	On Bonisoli's theorem and the block codes of Steiner triple systems. Designs, Codes, and Cryptography, 2018, 86, 449-462.	1.6	12
49	Cyclic 2-(91, 6, 1) designs with multiplier automorphisms. Discrete Mathematics, 1991, 97, 265-268.	0.7	11
50	On the binary codes of Steiner triple systems. Designs, Codes, and Cryptography, 1996, 8, 29-43.	1.6	11
51	Affine geometry designs, polarities, and Hamada's conjecture. Journal of Combinatorial Theory - Series A, 2011, 118, 231-239.	0.8	11
52	Decompositions of Difference Sets. Journal of Algebra, 1999, 217, 21-39.	0.7	10
53	Bounds on the number of Hadamard designs of even order. Journal of Combinatorial Designs, 2001, 9, 363-378.	0.6	10
54	On affine designs and Hadamard designs with line spreads. Discrete Mathematics, 2008, 308, 2742-2750.	0.7	10

#	Article	IF	CITATIONS
55	Symmetric Designs without Ovals and Extremal Self-Dual Codes. Annals of Discrete Mathematics, 1988, 37, 451-457.	1.4	9
56	Quasi-symmetric 2-(28, 12, 11) designs with an automorphism of order 7. Journal of Combinatorial Designs, 1998, 6, 213-223.	0.6	9
57	Maximal arcs and disjoint maximal arcs in projective planes of order 16. Journal of Geometry, 2000, 67, 117-126.	0.4	9
58	The preparata codes and a class of 4-designs. Journal of Combinatorial Designs, 1994, 2, 167-170.	0.6	8
59	A class of Steiner 4-wise balanced designs derived from preparata codes. Journal of Combinatorial Designs, 1996, 4, 203-204.	0.6	8
60	The [52, 26, 10] Binary Self-Dual Codes with an Automorphism of Order 7. Finite Fields and Their Applications, 2001, 7, 341-349.	1.0	8
61	Generalized weighing matrices and self-orthogonal codes. Discrete Mathematics, 2009, 309, 4697-4699.	0.7	8
62	Linear codes of 2-designs associated with subcodes of the ternary generalized Reed–Muller codes. Designs, Codes, and Cryptography, 2020, 88, 625-641.	1.6	8
63	Singly-even self-dual codes and Hadamard matrices. Lecture Notes in Computer Science, 1995, , 279-284.	1.3	8
64	The isomorphism of the Cohen, Haemers-van Lint and De Clerck-Dye-Thas partial geometries. Discrete Mathematics, 1984, 49, 213-217.	0.7	7
65	Embedding of the Witt-Mathieu system S(3, 6, 22) in a symmetric 2-(78, 22, 6) design. Geometriae Dedicata, 1987, 22, 49.	0.3	7
66	Some small non-embeddable designs. Discrete Mathematics, 1992, 106-107, 489-492.	0.7	7
67	Characterizing the Hermitian and Ree Unitals on 28 Points. Designs, Codes, and Cryptography, 1998, 13, 57-61.	1.6	7
68	New Designs with Block Size 7. Journal of Combinatorial Theory - Series A, 1998, 83, 152-157.	0.8	7
69	A New Bound on the Number of Designs with Classical Affine Parameters. Designs, Codes, and Cryptography, 2002, 27, 111-117.	1.6	7
70	The classification of Steiner triple systems on 27 points with 3-rank 24. Designs, Codes, and Cryptography, 2019, 87, 831-839.	1.6	7
71	Counting Steiner triple systems with classical parameters and prescribed rank. Journal of Combinatorial Theory - Series A, 2019, 162, 10-33.	0.8	7
72	The projective general linear group \$\${mathrm {PGL}}(2,2^m)\$\$ and linear codes of length \$\$2^m+1\$\$. Designs, Codes, and Cryptography, 2021, 89, 1713-1734.	1.6	7

#	Article	IF	CITATIONS
73	Optimal Difference Systems of Sets with Multipliers. Lecture Notes in Computer Science, 2006, , 612-618.	1.3	7
74	On Infinite Families of Narrow-Sense Antiprimitive BCH Codes Admitting 3-Transitive Automorphism Groups and Their Consequences. IEEE Transactions on Information Theory, 2022, 68, 3096-3107.	2.4	7
75	On Kirkman triple systems of order 33. Discrete Mathematics, 1992, 106-107, 493-496.	0.7	6
76	Linear codes and doubly transitive symmetric designs. Linear Algebra and Its Applications, 1995, 226-228, 237-246.	0.9	6
77	The uniformly packed binary [27,21,3] and [35,29,3] codes. Discrete Mathematics, 1996, 149, 283-288.	0.7	6
78	On the Steiner Systems S(2,4,25) invariant under a group of order 9. North-Holland Mathematics Studies, 1987, , 307-314.	0.2	5
79	A symmetric 2-(160, 54, 18) design. Journal of Combinatorial Designs, 1993, 1, 65-68.	0.6	5
80	Computing Linear Codes and Unitals. Designs, Codes, and Cryptography, 1998, 14, 39-52.	1.6	5
81	On generalized Hadamard matrices of minimum rank. Finite Fields and Their Applications, 2004, 10, 522-529.	1.0	5
82	A Hamada type characterization of the classical geometric designs. Designs, Codes, and Cryptography, 2012, 65, 15-28.	1.6	5
83	New invariants for incidence structures. Designs, Codes, and Cryptography, 2013, 68, 163-177.	1.6	5
84	The classification of antipodal two-weight linear codes. Finite Fields and Their Applications, 2018, 50, 372-381.	1.0	5
85	Maximal Arcs, Codes, and New Links Between Projective Planes of Order 16. Electronic Journal of Combinatorics, 2020, 27, .	0.4	5
86	On Pless symmetry codes, ternary QR codes, and related Hadamard matrices and designs. Designs, Codes, and Cryptography, 2022, 90, 2753-2762.	1.6	5
87	Symmetric 2-(31,10,3) Designs with Automorphisms of Order Seven. North-Holland Mathematics Studies, 1987, 149, 461-464.	0.2	4
88	On quasi-symmetric 2-(28,12,11) and 2-(36,16,12) designs. Designs, Codes, and Cryptography, 1995, 5, 43-55.	1.6	4
89	Steiner systems for two-stage disjunctive testing. Journal of Combinatorial Optimization, 2008, 15, 1-6.	1.3	4
90	Maximal arcs and quasi-symmetric designs. Designs, Codes, and Cryptography, 2015, 77, 365-374.	1.6	4

#	Article	IF	CITATIONS
91	Selfâ€Dual Codes and the Nonexistence of a Quasiâ€Symmetric 2â€(37,9,8) Design with Intersection Numbers 1 and 3. Journal of Combinatorial Designs, 2017, 25, 469-476.	0.6	4
92	On resolvable Steiner 2-designs and maximal arcs in projective planes. Designs, Codes, and Cryptography, 2017, 84, 165-172.	1.6	4
93	Maximal arcs and extended cyclic codes. Designs, Codes, and Cryptography, 2019, 87, 807-816.	1.6	4
94	Strongly regular graphs with parameters (81,Â30,Â9,Â12) and a new partial geometry. Journal of Algebraic Combinatorics, 2021, 53, 253-261.	0.8	4
95	Concerning multiplier automorphisms of cyclic Steiner triple systems. Designs, Codes, and Cryptography, 1992, 2, 237-251.	1.6	3
96	A Note on MDS Codes, n-Arcs and Complete Designs. Designs, Codes, and Cryptography, 2003, 29, 247-250.	1.6	3
97	Mutually disjoint designs and new 5â€designs derived from groups and codes. Journal of Combinatorial Designs, 2010, 18, 305-317.	0.6	3
98	Correction to: "Exponential bounds on the number of designs with affine parameters― Journal of Combinatorial Designs, 2011, 19, 156-166.	0.6	3
99	Affine designs and linear orthogonal arrays. Discrete Mathematics, 2005, 294, 219-222.	0.7	2
100	A Class of 2-(3n7, 3nâ^'17, (3nâ^'17â^'1)/2) Designs. Journal of Combinatorial Designs, 2007, 15, 460-464.	0.6	2
101	Nonbinary quantum codes derived from finite geometries. Finite Fields and Their Applications, 2012, 18, 63-69.	1.0	2
102	Linearly embeddable designs. Designs, Codes, and Cryptography, 2017, 85, 233-247.	1.6	2
103	Cyclotomic Trace Codes. Algorithms, 2019, 12, 168.	2.1	2
104	Maximal arcs in projective planes of order 16 and related designs. Advances in Geometry, 2019, 19, 345-351.	0.4	2
105	On Quasi-symmetric 2-(64, 24, 46) Designs Derived from Codes. CIM Series in Mathematical Sciences, 2015, , 327-333.	0.4	2
106	A new class of majority-logic decodable codes derived from polarity designs. Advances in Mathematics of Communications, 2013, 7, 175-186.	0.7	2
107	A characterization of designs related to dodecads in the witt system S(5, 8, 24). Journal of Combinatorial Theory - Series A, 1986, 43, 219-227.	0.8	1
108	Self-dual codes and Hadamard matrices. Discrete Applied Mathematics, 1991, 33, 235-240.	0.9	1

#	Article	IF	CITATIONS
109	On the extendability of steiner t-designs. Journal of Combinatorial Designs, 1993, 1, 239-247.	0.6	1
110	Exponential bounds on the number of designs with affine parameters. Journal of Combinatorial Designs, 2010, 18, 475-487.	0.6	1
111	Quasi-symmetric 2-(64,24,46) designs derived from AG(3,4). Discrete Mathematics, 2017, 340, 2472-2478.	0.7	1
112	On Classifying Steiner Triple Systems by Their 3-Rank. Lecture Notes in Computer Science, 2017, , 295-305.	1.3	1
113	The weight distribution of the self-dual \$[128,64]\$ polarity design code. Advances in Mathematics of Communications, 2016, 10, 643-648.	0.7	1
114	On the classification of unitals on 28 points of low rank. Applicable Algebra in Engineering, Communications and Computing, 2022, 33, 903-913.	0.5	1
115	2-(25,10,6) Designs Invariant under the Dihedral Group of Order Ten. North-Holland Mathematics Studies, 1987, , 301-306.	0.2	Ο
116	Perfect Codes and Balanced Generalized Weighing Matrices, II. Electronic Notes in Discrete Mathematics, 2001, 6, 113-122.	0.4	0
117	Cyclic quasi-symmetric designs and self-orthogonal codes of length 63. Journal of Statistical Planning and Inference, 2008, 138, 80-85.	0.6	0
118	An algorithm for optimal comma free codes with isomorphism rejection. , 2009, , .		0
119	Extension sets, affine designs, and Hamada's conjecture. Designs, Codes, and Cryptography, 2018, 86, 587-610.	1.6	0
120	All Binary Linear Codes That Are Invariant Under <inline-formula> <tex-math notation="LaTeX">\${mathrm{PSL}}_2(n)\$ </tex-math </inline-formula> . IEEE Transactions on Information Theory, 2018, 64, 5769-5775.	2.4	0
121	Ternary codes, biplanes, and the nonexistence of some quasisymmetric and quasiâ€3 designs. Journal of Combinatorial Designs, 2020, 28, 745-752.	0.6	Ο
122	On partial geometries arising from maximal arcs. Journal of Algebraic Combinatorics, 0, , 1.	0.8	0
123	Spreads in Strongly Regular Graphs. , 1996, , 145-157.		0
124	Quasi-symmetric 2-(41,Â9,Â9) designs and doubly even self-dual codes of length 40. Applicable Algebra in Engineering, Communications and Computing, 0, , 1.	0.5	0