Vladimir D Tonchev

List of Publications by Year
in descending order

124 papers	1,432 citations	331670 21 h-index	501196 28 g-index
128 all docs	128 docs citations	128 times ranked	379 citing authors

#	ARTICLE	IF	CITATIONS
1	On Pless symmetry codes, ternary QR codes, and related Hadamard matrices and designs. Designs, Codes, and Cryptography, 2022, 90, 2753-2762.	1.6	5
2	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
3	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
4	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
5	Strongly regular graphs with parameters (81, 30, 9, 12) and a new partial geometry. Journal of Algebraic Combinatorics, 2021, 53, 253-261.	0.8	4
6	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
7	Ternary codes, biplanes, and the nonexistence of some quasisymmetric and quasi–3 designs. Journal of Combinatorial Designs, 2020, 28, 745-752.	0.6	0
8	Maximal Arcs, Codes, and New Links Between Projective Planes of Order 16. Electronic Journal of Combinatorics, 2020, 27, .	0.4	5
9	The classification of Steiner triple systems on 27 points with 3-rank 24. Designs, Codes, and Cryptography, 2019, 87, 831-839.	1.6	7
10	Maximal arcs and extended cyclic codes. Designs, Codes, and Cryptography, 2019, 87, 807-816.	1.6	4
11	Cyclotomic Trace Codes. Algorithms, 2019, 12, 168.	2.1	2
12	Maximal arcs in projective planes of order 16 and related designs. Advances in Geometry, 2019, 19, 345-351.	0.4	2
13	Bent Vectorial Functions, Codes and Designs. IEEE Transactions on Information Theory, 2019, 65, 7533-7541.	2.4	16
14	Counting Steiner triple systems with classical parameters and prescribed rank. Journal of Combinatorial Theory - Series A, 2019, 162, 10-33.	0.8	7
15	The classification of antipodal two-weight linear codes. Finite Fields and Their Applications, 2018, 50, 372-381.	1.0	5
16	Extension sets, affine designs, and Hamada's conjecture. Designs, Codes, and Cryptography, 2018, 86, 587-610.	1.6	0
17	On Bonisoli's theorem and the block codes of Steiner triple systems. Designs, Codes, and Cryptography, 2018, 86, 449-462.	1.6	12
18	All Binary Linear Codes That Are Invariant Under ${\mathrm{PSL}}_2(n)$. IEEE Transactions on Information Theory, 2018, 64, 5769-5775.	2.4	0

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19	Self‐Dual Codes and the Nonexistence of a Quasi‐Symmetric 2‐(37,9,8) Design with Intersection Numbers 1 and 3. Journal of Combinatorial Designs, 2017, 25, 469-476.	0.6	4
20	Quasi-symmetric 2-(64,24,46) designs derived from AG(3,4). Discrete Mathematics, 2017, 340, 2472-2478.	0.7	1
21	On resolvable Steiner 2-designs and maximal arcs in projective planes. Designs, Codes, and Cryptography, 2017, 84, 165-172.	1.6	4
22	Linearly embeddable designs. Designs, Codes, and Cryptography, 2017, 85, 233-247.	1.6	2
23	On Classifying Steiner Triple Systems by Their 3-Rank. Lecture Notes in Computer Science, 2017, , 295-305.	1.3	1
24	The weight distribution of the self-dual $[128,64]$ polarity design code. Advances in Mathematics of Communications, 2016, 10, 643-648.	0.7	1
25	Maximal arcs and quasi-symmetric designs. Designs, Codes, and Cryptography, 2015, 77, 365-374.	1.6	4
26	On Quasi-symmetric 2-(64, 24, 46) Designs Derived from Codes. CIM Series in Mathematical Sciences, 2015, , 327-333.	0.4	2
27	High-Rate Self-Synchronizing Codes. IEEE Transactions on Information Theory, 2013, 59, 2328-2335.	2.4	17
28	New invariants for incidence structures. Designs, Codes, and Cryptography, 2013, 68, 163-177.	1.6	5
29	A Characterization of Entanglement-Assisted Quantum Low-Density Parity-Check Codes. IEEE Transactions on Information Theory, 2013, 59, 3347-3353.	2.4	41
30	Algebraic techniques in designing quantum synchronizable codes. Physical Review A, 2013, 88, .	2.5	27
31	A new class of majority-logic decodable codes derived from polarity designs. Advances in Mathematics of Communications, 2013, 7, 175-186.	0.7	2
32	A Hamada type characterization of the classical geometric designs. Designs, Codes, and Cryptography, 2012, 65, 15-28.	1.6	5
33	Nonbinary quantum codes derived from finite geometries. Finite Fields and Their Applications, 2012, 18, 63-69.	1.0	2
34	Correction to: "Exponential bounds on the number of designs with affine parameters" Journal of Combinatorial Designs, 2011, 19, 156-166.	0.6	3
35	Affine geometry designs, polarities, and Hamada's conjecture. Journal of Combinatorial Theory - Series A, 2011, 118, 231-239.	0.8	11
36	Entanglement-assisted quantum low-density parity-check codes. Physical Review A, 2010, 82, .	2.5	58

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37	The number of designs with geometric parameters grows exponentially. Designs, Codes, and Cryptography, 2010, 55, 131-140.	1.6	14
38	Mutually disjoint designs and new 5â€designs derived from groups and codes. Journal of Combinatorial Designs, 2010, 18, 305-317.	0.6	3
39	Exponential bounds on the number of designs with affine parameters. Journal of Combinatorial Designs, 2010, 18, 475-487.	0.6	1
40	An algorithm for optimal comma free codes with isomorphism rejection. , 2009, , .		0
41	Generalized weighing matrices and self-orthogonal codes. Discrete Mathematics, 2009, 309, 4697-4699.	0.7	8
42	Polarities, quasi-symmetric designs, and Hamadaâ€™s conjecture. Designs, Codes, and Cryptography, 2009, 51, 131-140.	1.6	27
43	Steiner systems for two-stage disjunctive testing. Journal of Combinatorial Optimization, 2008, 15, 1-6.	1.3	4
44	Cyclic quasi-symmetric designs and self-orthogonal codes of length 63. Journal of Statistical Planning and Inference, 2008, 138, 80-85.	0.6	0
45	On affine designs and Hadamard designs with line spreads. Discrete Mathematics, 2008, 308, 2742-2750.	0.7	10
46	Difference systems of sets and cyclotomy. Discrete Mathematics, 2008, 308, 2959-2969.	0.7	26
47	Quantum codes from caps. Discrete Mathematics, 2008, 308, 6368-6372.	0.7	14
48	A Class of 2-(3n7, 3nâˆ’17, (3nâˆ’17âˆ’1)/2) Designs. Journal of Combinatorial Designs, 2007, 15, 460-464.	0.6	2
49	On Conflict-Avoiding Codes of Length $n=4m$ for Three Active Users. IEEE Transactions on Information Theory, 2007, 53, 2732-2742.	2.4	35
50	An algorithm for optimal difference systems of sets. Journal of Combinatorial Optimization, 2007, 14, 165-175.	1.3	21
51	Hyperplane partitions and difference systems of sets. Journal of Combinatorial Theory - Series A, 2006, 113, 1689-1698.	0.8	30
52	Optimal Difference Systems of Sets with Multipliers. Lecture Notes in Computer Science, 2006, , 612-618.	1.3	7
53	Partitions of difference sets and code synchronization. Finite Fields and Their Applications, 2005, 11, 601-621.	1.0	37
54	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

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55	Affine designs and linear orthogonal arrays. Discrete Mathematics, 2005, 294, 219-222.	0.7	2
56	Symmetric (4,4)-Nets and Generalized Hadamard Matrices Over Groups of Order 4. Designs, Codes, and Cryptography, 2005, 34, 71-87.	1.6	26
57	A new quasi-symmetric 2-(56,16,6) design obtained from codes. Discrete Mathematics, 2004, 284, 231-234.	0.7	12
58	On generalized Hadamard matrices of minimum rank. Finite Fields and Their Applications, 2004, 10, 522-529.	1.0	5
59	A Note on MDS Codes, n-Arcs and Complete Designs. Designs, Codes, and Cryptography, 2003, 29, 247-250.	1.6	3
60	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
61	Unitals and codes. Discrete Mathematics, 2003, 267, 23-33.	0.7	20
62	Self-orthogonal codes from symmetric designs with fixed-point-free automorphisms. Discrete Mathematics, 2003, 264, 81-90.	0.7	18
63	Perfect Codes and Balanced Generalized Weighing Matrices, II. Finite Fields and Their Applications, 2002, 8, 155-165.	1.0	14
64	Error-correcting codes from graphs. Discrete Mathematics, 2002, 257, 549-557.	0.7	22
65	A New Bound on the Number of Designs with Classical Affine Parameters. Designs, Codes, and Cryptography, 2002, 27, 111-117.	1.6	7
66	Perfect Codes and Balanced Generalized Weighing Matrices, II. Electronic Notes in Discrete Mathematics, 2001, 6, 113-122.	0.4	0
67	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
68	A Mass Formula for Steiner Triple Systems STS(2n⌃1) of 2-Rank 2n⌃n. Journal of Combinatorial Theory - Series A, 2001, 95, 197-208.	0.8	15
69	Bounds on the number of Hadamard designs of even order. Journal of Combinatorial Designs, 2001, 9, 363-378.	0.6	10
70	Bush-type Hadamard matrices and symmetric designs. Journal of Combinatorial Designs, 2001, 9, 72-78.	0.6	19
71	Title is missing!. Designs, Codes, and Cryptography, 2001, 24, 225-232.	1.6	18
72	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

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73	Maximal arcs and disjoint maximal arcs in projective planes of order 16. Journal of Geometry, 2000, 67, 117-126.	0.4	9
74	On symmetric nets and generalized Hadamard matrices from affine designs. Journal of Geometry, 2000, 67, 180-187.	0.4	19
75	Unital designs in planes of order 16. Discrete Applied Mathematics, 2000, 102, 151-158.	0.9	13
76	Linear Perfect Codes and a Characterization of the Classical Designs. Designs, Codes, and Cryptography, 1999, 17, 121-128.	1.6	15
77	Decompositions of Difference Sets. Journal of Algebra, 1999, 217, 21-39.	0.7	10
78	Perfect Codes and Balanced Generalized Weighing Matrices. Finite Fields and Their Applications, 1999, 5, 294-300.	1.0	15
79	Computing Linear Codes and Unitals. Designs, Codes, and Cryptography, 1998, 14, 39-52.	1.6	5
80	Characterizing the Hermitian and Ree Unitals on 28 Points. Designs, Codes, and Cryptography, 1998, 13, 57-61.	1.6	7
81	New Designs with Block Size 7. Journal of Combinatorial Theory - Series A, 1998, 83, 152-157.	0.8	7
82	Quasi-symmetric 2-(28, 12, 11) designs with an automorphism of order 7. Journal of Combinatorial Designs, 1998, 6, 213-223.	0.6	9
83	Steiner triple systems of order 15 and their codes. Journal of Statistical Planning and Inference, 1997, 58, 207-216.	0.6	16
84	Linear Codes and the Existence of a Reversible Hadamard Difference Set inZ2Ã—Z2Ã—Z45. Journal of Combinatorial Theory - Series A, 1997, 79, 161-167.	0.8	16
85	On the binary codes of Steiner triple systems. Designs, Codes, and Cryptography, 1996, 8, 29-43.	1.6	11
86	Spreads in strongly regular graphs. Designs, Codes, and Cryptography, 1996, 8, 145-157.	1.6	26
87	A class of Steiner 4-wise balanced designs derived from preparata codes. Journal of Combinatorial Designs, 1996, 4, 203-204.	0.6	8
88	The uniformly packed binary [27,21,3] and [35,29,3] codes. Discrete Mathematics, 1996, 149, 283-288.	0.7	6
89	Classification of affine resolvable 2-(27, 9, 4) designs. Journal of Statistical Planning and Inference, 1996, 56, 187-202.	0.6	34
90	Spreads in Strongly Regular Graphs. , 1996, , 145-157.		0

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91	On quasi-symmetric 2-(28,12,11) and 2-(36,16,12) designs. Designs, Codes, and Cryptography, 1995, 5, 43-55.	1.6	4
92	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
93	Linear codes and doubly transitive symmetric designs. Linear Algebra and Its Applications, 1995, 226-228, 237-246.	0.9	6
94	Singly-even self-dual codes and Hadamard matrices. Lecture Notes in Computer Science, 1995, , 279-284.	1.3	8
95	The preparata codes and a class of 4-designs. Journal of Combinatorial Designs, 1994, 2, 167-170.	0.6	8
96	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
97	A symmetric 2-(160, 54, 18) design. Journal of Combinatorial Designs, 1993, 1, 65-68.	0.6	5
98	On the extendability of steiner t-designs. Journal of Combinatorial Designs, 1993, 1, 239-247.	0.6	1
99	A design and a code invariant under the simple group Co3. Journal of Combinatorial Theory - Series A, 1993, 62, 225-233.	0.8	23
100	Quasi-symmetric designs, codes, quadrics, and hyperplane sections. Geometriae Dedicata, 1993, 48, 295-308.	0.3	34
101	Concerning multiplier automorphisms of cyclic Steiner triple systems. Designs, Codes, and Cryptography, 1992, 2, 237-251.	1.6	3
102	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
103	Some small non-embeddable designs. Discrete Mathematics, 1992, 106-107, 489-492.	0.7	7
104	On Kirkman triple systems of order 33. Discrete Mathematics, 1992, 106-107, 493-496.	0.7	6
105	Extremal self-dual codes from symmetric designs. Discrete Mathematics, 1992, 110, 265-268.	0.7	14
106	Self-dual codes and Hadamard matrices. Discrete Applied Mathematics, 1991, 33, 235-240.	0.9	1
107	Cyclic 2-(91, 6, 1) designs with multiplier automorphisms. Discrete Mathematics, 1991, 97, 265-268.	0.7	11
108	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

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109	Self-orthogonal designs and extremal doubly even codes. Journal of Combinatorial Theory - Series A, 1989, 52, 197-205.	0.8	27
110	Symmetric Designs without Ovals and Extremal Self-Dual Codes. Annals of Discrete Mathematics, 1988, 37, 451-457.	1.4	9
111	2-(25,10,6) Designs Invariant under the Dihedral Group of Order Ten. North-Holland Mathematics Studies, 1987, , 301-306.	0.2	0
112	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
113	Symmetric 2-(31,10,3) Designs with Automorphisms of Order Seven. North-Holland Mathematics Studies, 1987, 149, 461-464.	0.2	4
114	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
115	Quasi-symmetric Designs and Self-dual Codes. European Journal of Combinatorics, 1986, 7, 67-73.	0.8	25
116	Hadamard matrices of order 36 with automorphisms of order 17. Nagoya Mathematical Journal, 1986, 104, 163-174.	0.8	13
117	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
118	A characterization of designs related to the Witt systemS(5,8,24). Mathematische Zeitschrift, 1986, 191, 225-230.	0.9	17
119	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
120	Hadamard matrices of order 28 with automorphisms of order 7. Journal of Combinatorial Theory - Series A, 1985, 40, 62-81.	0.8	17
121	The isomorphism of the Cohen, Haemers-van Lint and De Clerck-Dye-Thas partial geometries. Discrete Mathematics, 1984, 49, 213-217.	0.7	7
122	Hadamard matrices of order 28 with automorphisms of order 13. Journal of Combinatorial Theory - Series A, 1983, 35, 43-57.	0.8	21
123	On partial geometries arising from maximal arcs. Journal of Algebraic Combinatorics, 0, , 1.	0.8	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