

# Tuvi Etzion

## List of Publications by Year in descending order

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120  
papers

1,868  
citations

304602

22  
h-index

330025

37  
g-index

121  
all docs

121  
docs citations

121  
times ranked

603  
citing authors

#	ARTICLE	IF	CITATIONS
1	Error-Correcting Codes in Projective Space. IEEE Transactions on Information Theory, 2011, 57, 1165-1173.	1.5	163
2	Error-Correcting Codes in Projective Spaces Via Rank-Metric Codes and Ferrers Diagrams. IEEE Transactions on Information Theory, 2009, 55, 2909-2919.	1.5	143
3	Codes and Designs Related to Lifted MRD Codes. IEEE Transactions on Information Theory, 2013, 59, 1004-1017.	1.5	83
4	On Perfect Codes and Tilings: Problems and Solutions. SIAM Journal on Discrete Mathematics, 1998, 11, 205-223.	0.4	68
5	Codes and Anticodes in the Grassman Graph. Journal of Combinatorial Theory - Series A, 2002, 97, 27-42.	0.5	64
6	Optimal constant weight codes over $Z_k$ and generalized designs. Discrete Mathematics, 1997, 169, 55-82.	0.4	58
7	Optimal Fractional Repetition Codes Based on Graphs and Designs. IEEE Transactions on Information Theory, 2015, 61, 4164-4180.	1.5	52
8	Galois geometries and coding theory. Designs, Codes, and Cryptography, 2016, 78, 311-350.	1.0	49
9	EXISTENCE OF $t$ -ANALOGS OF STEINER SYSTEMS. Forum of Mathematics, Pi, 2016, 4, .	1.1	48
10	Subspace Polynomials and Cyclic Subspace Codes. IEEE Transactions on Information Theory, 2016, 62, 1157-1165.	1.5	41
11	Permutation Polynomials, de Bruijn Sequences, and Linear Complexity. Journal of Combinatorial Theory - Series A, 1996, 76, 55-82.	0.5	37
12	Binary Polarization Kernels From Code Decompositions. IEEE Transactions on Information Theory, 2015, 61, 2227-2239.	1.5	37
13	Error-Correcting Codes in Projective Space. , 2008, , .		32
14	Product Constructions for Perfect Lee Codes. IEEE Transactions on Information Theory, 2011, 57, 7473-7481.	1.5	32
15	Bounds on the Size of Permutation Codes With the Kendall $\tau$ Metric. IEEE Transactions on Information Theory, 2015, 61, 3241-3250.	1.5	31
16	Error-Correction of Multidimensional Bursts. IEEE Transactions on Information Theory, 2009, 55, 961-976.	1.5	30
17	Optimal Ferrers Diagram Rank-Metric Codes. IEEE Transactions on Information Theory, 2016, 62, 1616-1630.	1.5	29
18	Vector Network Coding Based on Subspace Codes Outperforms Scalar Linear Network Coding. IEEE Transactions on Information Theory, 2018, 64, 2460-2473.	1.5	29

#	ARTICLE	IF	CITATIONS
19	Towards a Large Set of Steiner Quadruple Systems. SIAM Journal on Discrete Mathematics, 1991, 4, 182-195.	0.4	27
20	Constructions of High-Rate Minimum Storage Regenerating Codes Over Small Fields. IEEE Transactions on Information Theory, 2017, 63, 2015-2038.	1.5	27
21	Tilings With $n$ -Dimensional Chairs and Their Applications to Asymmetric Codes. IEEE Transactions on Information Theory, 2013, 59, 1573-1582.	1.5	25
22	PIR array codes with optimal PIR rates. , 2017, , .		25
23	Enumerative Coding for Grassmannian Space. IEEE Transactions on Information Theory, 2011, 57, 365-374.	1.5	23
24	On $q$ -analogs of Steiner systems and covering designs. Advances in Mathematics of Communications, 2011, 5, 161-176.	0.4	23
25	An algorithm for constructing $m$ -ary de Bruijn sequences. Journal of Algorithms, 1986, 7, 331-340.	0.9	21
26	Bounds on the sizes of constant weight covering codes. Designs, Codes, and Cryptography, 1995, 5, 217-239.	1.0	21
27	Equidistant codes in the Grassmannian. Discrete Applied Mathematics, 2015, 186, 87-97.	0.5	21
28	Locality and Availability of Array Codes Constructed From Subspaces. IEEE Transactions on Information Theory, 2019, 65, 2648-2660.	1.5	21
29	On the Nonexistence of Perfect Codes in the Johnson Scheme. SIAM Journal on Discrete Mathematics, 1996, 9, 201-209.	0.4	20
30	A bound on the size of separating hash families. Journal of Combinatorial Theory - Series A, 2008, 115, 1246-1256.	0.5	20
31	Properties of the Error Linear Complexity Spectrum. IEEE Transactions on Information Theory, 2009, 55, 4681-4686.	1.5	20
32	The last packing number of quadruples, and cyclic SQS. Designs, Codes, and Cryptography, 1993, 3, 283-313.	1.0	19
33	On the chromatic number, colorings, and codes of the Johnson graph. Discrete Applied Mathematics, 1996, 70, 163-175.	0.5	19
34	Simple and Robust Binary Self-Location Patterns. IEEE Transactions on Information Theory, 2012, 58, 4884-4889.	1.5	19
35	Some new distance-4 constant weight codes. Advances in Mathematics of Communications, 2011, 5, 417-424.	0.4	17
36	Error-correcting codes for multipermutations. , 2013, , .		16

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37	Constructions of Snake-in-the-Box Codes for Rank Modulation. IEEE Transactions on Information Theory, 2014, 60, 7016-7025.	1.5	16
38	Traceability codes. Journal of Combinatorial Theory - Series A, 2010, 117, 1049-1057.	0.5	14
39	Linearity and complements in projective space. Linear Algebra and Its Applications, 2013, 438, 57-70.	0.4	14
40	Distinct Difference Configurations: Multihop Paths and Key Predistribution in Sensor Networks. IEEE Transactions on Information Theory, 2010, 56, 3961-3972.	1.5	13
41	Optimal doubly constant weight codes. Journal of Combinatorial Designs, 2008, 16, 137-151.	0.3	12
42	Coding for the Lee and Manhattan Metrics With Weighing Matrices. IEEE Transactions on Information Theory, 2013, 59, 6712-6723.	1.5	12
43	PIR Array Codes With Optimal Virtual Server Rate. IEEE Transactions on Information Theory, 2019, 65, 6136-6145.	1.5	12
44	Nonequivalent q-Ary Perfect Codes. SIAM Journal on Discrete Mathematics, 1996, 9, 413-423.	0.4	11
45	Two-Dimensional Patterns With Distinct Differences—Constructions, Bounds, and Maximal Anticodes. IEEE Transactions on Information Theory, 2010, 56, 1216-1229.	1.5	11
46	Codes and designs related to lifted MRD codes. , 2011, , .		11
47	Vector network coding based on subspace codes outperforms scalar linear network coding. , 2016, , .		11
48	Self-dual sequences. Journal of Combinatorial Theory - Series A, 1987, 44, 288-298.	0.5	10
49	Combinatorial designs with Costas arrays properties. Discrete Mathematics, 1991, 93, 143-154.	0.4	10
50	Partitions of triples into optimal packings. Journal of Combinatorial Theory - Series A, 1992, 59, 269-284.	0.5	10
51	Intersection of Isomorphic Linear Codes. Journal of Combinatorial Theory - Series A, 1997, 80, 247-256.	0.5	10
52	Grassmannian Codes With New Distance Measures for Network Coding. IEEE Transactions on Information Theory, 2019, 65, 4131-4142.	1.5	10
53	On the Access Complexity of PIR Schemes. , 2019, , .		10
54	Optimal partitions for triples. Journal of Combinatorial Theory - Series A, 1992, 59, 161-176.	0.5	9

#	ARTICLE	IF	CITATIONS
55	Distributed storage systems based on intersecting subspace codes. , 2015, , .		9
56	Metrics Based on Finite Directed Graphs and Coding Invariants. IEEE Transactions on Information Theory, 2018, 64, 2398-2409.	1.5	9
57	Bounds on the Length of Functional PIR and Batch Codes. IEEE Transactions on Information Theory, 2020, 66, 4917-4934.	1.5	9
58	Large sets of coverings. Journal of Combinatorial Designs, 1994, 2, 359-374.	0.3	8
59	On threshold schemes from large sets. Journal of Combinatorial Designs, 1996, 4, 323-338.	0.3	8
60	Optimal tristance anticodes in certain graphs. Journal of Combinatorial Theory - Series A, 2006, 113, 189-224.	0.5	8
61	On Row-by-Row Coding for 2-D Constraints. IEEE Transactions on Information Theory, 2009, 55, 3565-3576.	1.5	8
62	The Asymptotic Behavior of Grassmannian Codes. IEEE Transactions on Information Theory, 2012, 58, 6605-6609.	1.5	8
63	Cooling Codes: Thermal-Management Coding for High-Performance Interconnects. IEEE Transactions on Information Theory, 2018, 64, 3062-3085.	1.5	8
64	On the distribution of de bruijn sequences of low complexity. Journal of Combinatorial Theory - Series A, 1985, 38, 241-253.	0.5	7
65	Configuration distribution and designs of codes in the Johnson scheme. Journal of Combinatorial Designs, 2007, 15, 15-34.	0.3	7
66	Sequence Folding, Lattice Tiling, and Multidimensional Coding. IEEE Transactions on Information Theory, 2011, 57, 4383-4400.	1.5	7
67	Covering of subspaces by subspaces. Designs, Codes, and Cryptography, 2014, 72, 405-421.	1.0	7
68	Systematic Error-Correcting Codes for Permutations and Multi-Permutations. IEEE Transactions on Information Theory, 2016, 62, 3113-3124.	1.5	7
69	New upper bounds on codes via association schemes and linear programming. Advances in Mathematics of Communications, 2007, 1, 173-195.	0.4	7
70	Dense error-correcting codes in the Lee metric. , 2010, , .		6
71	Bounds on the Length of Functional PIR and Batch Codes. , 2019, , .		6
72	Subspace packings: constructions and bounds. Designs, Codes, and Cryptography, 2020, 88, 1781-1810.	1.0	6

#	ARTICLE	IF	CITATIONS
73	Locally-Constrained de Bruijn Codes: Properties, Enumeration, Code Constructions, and Applications. IEEE Transactions on Information Theory, 2021, 67, 7857-7875.	1.5	6
74	Network-Coding Solutions for Minimal Combination Networks and Their Sub-Networks. IEEE Transactions on Information Theory, 2020, 66, 6786-6798.	1.5	6
75	High dimensional error-correcting codes. , 2010, , .		5
76	Perfect permutation codes with the Kendall's $\tau$ -metric. , 2014, , .		5
77	Partial $\epsilon$ -Parallelisms in Finite Projective Spaces. Journal of Combinatorial Designs, 2015, 23, 101-114.	0.3	5
78	Constructions of high-rate minimum storage regenerating codes over small fields. , 2016, , .		5
79	Locality and availability of array codes constructed from subspaces. , 2017, , .		5
80	Constrained de Bruijn Codes and their Applications. , 2019, , .		5
81	Network Coding Solutions for the Combination Network and its Subgraphs. , 2019, , .		5
82	PIR Schemes With Small Download Complexity and Low Storage Requirements. IEEE Transactions on Information Theory, 2020, 66, 557-571.	1.5	5
83	Low-Power Cooling Codes With Efficient Encoding and Decoding. IEEE Transactions on Information Theory, 2020, 66, 4804-4818.	1.5	5
84	Systematic codes for rank modulation. , 2014, , .		4
85	Optimal fractional repetition codes for distributed storage systems. , 2014, , .		4
86	Cooling codes: Thermal-management coding for high-performance interconnects. , 2017, , .		4
87	On perfect codes in the Johnson scheme. DIMACS Series in Discrete Mathematics and Theoretical Computer Science, 2001, , 125-130.	0.0	4
88	On the Optimality of Coloring with a Lattice. SIAM Journal on Discrete Mathematics, 2005, 18, 844-878.	0.4	3
89	Tilings by $(0.5, n)$ -Crosses and Perfect Codes. SIAM Journal on Discrete Mathematics, 2013, 27, 1067-1081.	0.4	3
90	Metrics based on finite directed graphs. , 2016, , .		3

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91	An improved recursive construction for disjoint Steiner quadruple systems. <i>Journal of Combinatorial Designs</i> , 2020, 28, 551-567.	0.3	3
92	Explicit Baranyai partitions for quadruples, Part I: Quadrupling constructions. <i>Journal of Combinatorial Designs</i> , 2021, 29, 447-481.	0.3	3
93	A New Approach for Examining $q$ -Steiner Systems. <i>Electronic Journal of Combinatorics</i> , 2018, 25, .	0.2	3
94	On perfect constant weight codes. <i>DIMACS Series in Discrete Mathematics and Theoretical Computer Science</i> , 2001, , 131-134.	0.0	3
95	Error-Correction of Multidimensional Bursts. , 2007, , .		2
96	Construction of error-correcting codes for random network coding. , 2008, , .		2
97	Subspace polynomials and cyclic subspace codes. , 2015, , .		2
98	Block-avoiding point sequencings. <i>Journal of Combinatorial Designs</i> , 2021, 29, 339-366.	0.3	2
99	Residual $q$ -Fano Planes and Related Structures. <i>Electronic Journal of Combinatorics</i> , 2018, 25, .	0.2	2
100	Hamiltonian decomposition of $K_n$ , patterns with distinct differences, and Tuscan squares. <i>Discrete Mathematics</i> , 1991, 91, 259-276.	0.4	1
101	The Positive Capacity Region of Two-Dimensional Run Length Constrained Channels. , 2006, , .		1
102	On the error linear complexity profiles of binary sequences of period $2^n$ . , 2008, , .		1
103	Coding for the Lee and Manhattan metrics with weighing matrices. , 2013, , .		1
104	Low-Power Cooling Codes with Efficient Encoding and Decoding. , 2018, , .		1
105	Local Rank Modulation for Flash Memories. <i>IEEE Transactions on Information Theory</i> , 2019, 65, 1705-1713.	1.5	1
106	Private Proximity Retrieval. , 2019, , .		1
107	Recovery Sets for Subspaces from a Vector Space. , 2020, , .		1
108	Private Proximity Retrieval Codes. <i>IEEE Transactions on Information Theory</i> , 2021, , 1-1.	1.5	1

#	ARTICLE	IF	CITATIONS
109	Domination mappings into the hamming ball: Existence, constructions, and algorithms. <i>Advances in Mathematics of Communications</i> , 2023, 17, 1027-1059.	0.4	1
110	Large sets with multiplicity. <i>Designs, Codes, and Cryptography</i> , 2021, 89, 1661-1690.	1.0	1
111	Regular Multiset Combinatorial Batch Codes over Vector Spaces. , 2021, , .		1
112	Non-Binary Diameter Perfect Constant-Weight Codes. <i>IEEE Transactions on Information Theory</i> , 2022, 68, 891-904.	1.5	1
113	An explicit construction of Euler circuits in shuffle nets and related networks. <i>Networks</i> , 1992, 22, 523-529.	1.6	0
114	Prolific Codes with the Identifiable Parent Property. <i>SIAM Journal on Discrete Mathematics</i> , 2008, 22, 1393-1410.	0.4	0
115	Folding, tiling, and multidimensional coding. , 2009, , .		0
116	Sidon sequences and doubly periodic two-dimensional synchronization patterns. , 2011, , .		0
117	Errata to "Codes and Designs Related to Lifted MRD Codes" [Feb 13 1004-1017]. <i>IEEE Transactions on Information Theory</i> , 2013, 59, 4730-4730.	1.5	0
118	Theq-analog of the middle levels problem. <i>Discrete Mathematics</i> , 2014, 331, 109-116.	0.4	0
119	Efficient Algorithm for the Linear Complexity of Sequences and Some Related Consequences. , 2020, , .		0
120	Regular graphs with forbidden subgraphs of $K_{\leq k}$ with $k$ edges. <i>International Journal of Information and Coding Theory</i> , 2017, 4, 145.	0.3	0