Melvyn B Nathanson

List of Publications by Year
in descending order

54 papers	562 citations	1040056 9 h-index	642732 23 g-index
55 all docs	55 docs citations	55 times ranked	157 citing authors

#	Article	IF	Citations
1	106.03 Real-rooted polynomials and a generalised Hermite-Sylvester theorem. Mathematical Gazette, 2022, 106, 120-124.	0.0	0
2	Chromatic sumsets. Journal of Number Theory, 2021, 219, 93-108.	0.4	0
3	105.06 The Hermite-Sylvester criterion for real-rooted polynomials. Mathematical Gazette, 2021, 105, 122-125.	0.0	1
4	The Bose-Chowla argument for Sidon sets. Journal of Number Theory, 2021, , .	0.4	0
5	Sidon sets for linear forms. Journal of Number Theory, 2021, , .	0.4	2
6	Sinkhorn limits in finitely many steps. Linear Algebra and Its Applications, 2020, 589, 1-8.	0.9	0
7	Geometric progressions in syndetic sets. Archiv Der Mathematik, 2020, 115, 413-417.	0.5	2
8	Dimensions of Monomial Varieties. Springer Proceedings in Mathematics and Statistics, 2020, , 147-160.	0.2	0
9	Matrix scaling and explicit doubly stochastic limits. Linear Algebra and Its Applications, 2019, 578, 111-132.	0.9	3
10	Comparison estimates for linear forms in additive number theory. Journal of Number Theory, 2018, 184, 1-26.	0.4	1
11	Every finite subset of an abelian group is an asymptotic approximate group. Journal of Number Theory, 2018, 191, 175-193.	0.4	2
12	An Elementary Proof for the Krull Dimension of a Polynomial Ring. American Mathematical Monthly, 2018, 125, 623-637.	0.3	1
13	Forests of complex numbers. International Journal of Number Theory, 2017, 13, 15-25.	0.5	2
14	Subalgebras of a Polynomial Ring That Are Not Finitely Generated. American Mathematical Monthly, 2017, 124, 456.	0.3	0
15	Cantor Polynomials and the Fueter-Pólya Theorem. American Mathematical Monthly, 2016, 123, 1001.	0.3	5
16	A forest of linear fractional transformations. International Journal of Number Theory, 2015, 11, 1275-1299.	0.5	7
17	Pairs of Matrices in $GL_2(R_{\geq 0})$ That Freely Generate. American Mathematical Monthly, 2015, 122, 790.	0.3	6
18	A problem of Rankin on sets without geometric progressions. Acta Arithmetica, 2015, 170, 327-342.	0.4	4

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19	Additive Systems and a Theorem of de Bruijn. American Mathematical Monthly, 2014, 121, 5.	0.3	4
20	CANTOR POLYNOMIALS FOR SEMIGROUP SECTORS. Journal of Algebra and Its Applications, 2014, 13, 1350165.	0.4	3
21	Dense sets of integers with prescribed representation functions. European Journal of Combinatorics, 2013, 34, 1297-1306.	0.8	8
22	On the Fractional Parts of Roots of Positive Real Numbers. American Mathematical Monthly, 2013, 120, 409.	0.3	2
23	Thin bases in additive number theory. Discrete Mathematics, 2012, 312, 2069-2075.	0.7	1
24	One, Two, Many: Individuality and Collectivity in Mathematics. Mathematical Intelligencer, 2011, 33, 5-8.	0.2	2
25	Phase Transitions in Infinitely Generated Groups, and Related Problems in Additive Number Theory. Integers, 2011, 11, .	0.3	2
26	PROBLEMS IN ADDITIVE NUMBER THEORY, IV: NETS IN GROUPS AND SHORTEST LENGTH g-ADIC REPRESENTATIONS. International Journal of Number Theory, 2011, 07, 1999-2017.	0.5	15
27	SEMIDIRECT PRODUCTS AND FUNCTIONAL EQUATIONS FOR QUANTUM MULTIPLICATION. Journal of Algebra and Its Applications, 2011, 10, 827-834.	0.4	0
28	Addictive Number Theory. , 2010, , 1-8.		0
29	HEIGHTS ON THE FINITE PROJECTIVE LINE. International Journal of Number Theory, 2009, 05, 55-65.	0.5	4
30	SUMS OF PRODUCTS OF CONGRUENCE CLASSES AND OF ARITHMETIC PROGRESSIONS. International Journal of Number Theory, 2009, 05, 625-634.	0.5	2
31	Desperately Seeking Mathematical Proof. Mathematical Intelligencer, 2009, 31, 8-10.	0.2	7
32	Maximal Sidon sets and matroids. Discrete Mathematics, 2009, 309, 4489-4494.	0.7	2
33	Problems in additive number theory, II: Linear forms and complementing sets. Journal De Theorie Des Nombres De Bordeaux, 2009, 21, 343-355.	0.1	2
34	Perfect difference sets constructed from Sidon sets. Combinatorica, 2008, 28, 401-414.	1.2	15
35	Inverse Problems for Representation Functions in Additive Number Theory. Developments in Mathematics, 2008, , 1-29.	0.4	3
36	Representation functions of bases for binary linear forms. Functiones Et Approximatio, Commentarii Mathematici, 2007, 37, .	0.3	3

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37	Density of sets of natural numbers and the LÃ©vy group. Journal of Number Theory, 2007, 124, 151-158.	0.4	4
38	Binary linear forms over finite sets of integers. Acta Arithmetica, 2007, 129, 341-361.	0.4	11
39	Quadratic addition rules for quantum integers. Journal of Number Theory, 2006, 117, 1-13.	0.4	9
40	Representation functions of additive bases for abelian semigroups. International Journal of Mathematics and Mathematical Sciences, 2004, 2004, 1589-1597.	0.7	9
41	Quantum integers and cyclotomy. Journal of Number Theory, 2004, 109, 120-135.	0.4	15
42	Formal power series arising from multiplication of quantum integers. DIMACS Series in Discrete Mathematics and Theoretical Computer Science, 2004, , 145-167.	0.0	8
43	A functional equation arising from multiplication of quantum integers. Journal of Number Theory, 2003, 103, 214-233.	0.4	16
44	Polynomial growth of sumsets in abelian semigroups. Journal De Theorie Des Nombres De Bordeaux, 2002, 14, 553-560.	0.1	14
45	N-graphs, Modular Sidon and Sum-Free Sets, and Partition Identities. Ramanujan Journal, 2000, 4, 59-67.	0.7	1
46	Growth of Sumsets in Abelian Semigroups. Semigroup Forum, 2000, 61, 149-153.	0.6	12
47	Linear Forms in Finite Sets of Integers. Ramanujan Journal, 1998, 2, 271-281.	0.7	6
48	Additive Number Theory. Graduate Texts in Mathematics, 1996, , .	0.5	321
49	A simple construction of minimal asymptotic bases. Acta Arithmetica, 1989, 52, 95-101.	0.4	20
50	The Haightâ€"Ruzsa Method for Sets with More Differences than Multiple Sums. , 0, , 173-186.		0
51	Pick's Theorem and Sums of Lattice Points. , 0, , 278-282.		0
52	Convergent series of integers with missing digits. Ramanujan Journal, 0, , 1.	0.7	0
53	Linear quantum addition rules. , 0, , .		2
54	Sums of Finite Sets of Integers, II. American Mathematical Monthly, 0, , 1-9.	0.3	1