

Alexander Lubotzky

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1091785/publications.pdf>

Version: 2024-02-01

113
papers

4,373
citations

147801

31
h-index

144013

57
g-index

116
all docs

116
docs citations

116
times ranked

982
citing authors

#	ARTICLE	IF	CITATIONS
1	Infinitely presented permutation stable groups and invariant random subgroups of metabelian groups. Ergodic Theory and Dynamical Systems, 2022, 42, 2028-2063.	0.6	3
2	Testability of relations between permutations. , 2022, , .		1
3	Locally testable codes with constant rate, distance, and locality. , 2022, , .		18
4	Constructing highly regular expanders from hyperbolic Coxeter groups. Transactions of the American Mathematical Society, 2021, 375, 325-350.	0.9	2
5	On representations of $\text{Gal}(\mathbb{Q}^{\frac{3}{4}}/\mathbb{Q})$, $\text{GT}\ddagger$ and $\text{Aut}(\mathbb{F}\ddagger^2)$. Journal of Algebra, 2021, , .	0.7	0
6	The congruence subgroup problem for finitely generated nilpotent groups. Journal of Group Theory, 2021, .	0.2	0
7	From Ramanujan graphs to Ramanujan complexes. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20180445.	3.4	2
8	Group stability and Property (T). Journal of Functional Analysis, 2020, 278, 108298.	1.4	13
9	Random walks on Ramanujan complexes and digraphs. Journal of the European Mathematical Society, 2020, 22, 3441-3466.	1.4	7
10	Non p-norm approximated Groups. Journal D'Analyse Mathematique, 2020, 141, 305-321.	0.8	4
11	STABILITY, COHOMOLOGY VANISHING, AND NONAPPROXIMABLE GROUPS. Forum of Mathematics, Sigma, 2020, 8, .	0.7	17
12	Counting non-uniform lattices. Israel Journal of Mathematics, 2019, 232, 201-229.	0.8	1
13	Stability and invariant random subgroups. Duke Mathematical Journal, 2019, 168, .	1.5	25
14	Generalized triangle groups, expanders, and a problem of Agol and Wise. Commentarii Mathematici Helvetici, 2019, 94, 53-66.	0.7	5
15	First order rigidity of non-uniform higher rank arithmetic groups. Inventiones Mathematicae, 2019, 217, 219-240.	2.5	11
16	Linear representations of random groups. Bulletin of Mathematical Sciences, 2019, 09, 1950016.	0.7	1
17	Random Steiner systems and bounded degree coboundary expanders of every dimension. Discrete and Computational Geometry, 2019, 62, 813-831.	0.6	5
18	HIGH DIMENSIONAL EXPANDERS. , 2019, , .		15

#	ARTICLE	IF	CITATIONS
19	WHAT IS...a Thin Group?. Notices of the American Mathematical Society, 2019, 66, 1.	0.2	5
20	The congruence topology, Grothendieck duality and thin groups. Algebra and Number Theory, 2019, 13, 1281-1298.	0.6	1
21	Good cyclic codes and the uncertainty principle. L'Enseignement Mathematique, 2018, 63, 305-332.	0.1	3
22	A trichotomy theorem for transformation groups of locally symmetric manifolds and topological rigidity. Advances in Mathematics, 2018, 327, 25-46.	1.1	0
23	On groups and simplicial complexes. European Journal of Combinatorics, 2018, 70, 408-444.	0.8	2
24	The congruence subgroup problem for low rank free and free metabelian groups. Journal of Algebra, 2018, 500, 171-192.	0.7	4
25	Isoperimetric Inequalities for Ramanujan Complexes and Topological Expanders. Geometric and Functional Analysis, 2016, 26, 250-287.	1.8	28
26	Sliceable groups and towers of fields. Journal of Group Theory, 2016, 19, 365-390.	0.2	1
27	Random methods in 3-manifold theory. Proceedings of the Steklov Institute of Mathematics, 2016, 292, 118-142.	0.3	8
28	Expansion of building-like complexes. Groups, Geometry, and Dynamics, 2016, 10, 155-175.	0.5	9
29	Arithmetic quotients of the mapping class group. Geometric and Functional Analysis, 2015, 25, 1493-1542.	1.8	25
30	Mixing Properties and the Chromatic Number of Ramanujan Complexes. International Mathematics Research Notices, 2015, , .	1.0	5
31	Random Latin squares and 2-dimensional expanders. Advances in Mathematics, 2015, 272, 743-760.	1.1	12
32	Invariable generation of infinite groups. Journal of Algebra, 2015, 421, 296-310.	0.7	15
33	Ramanujan complexes and high dimensional expanders. Japanese Journal of Mathematics, 2014, 9, 137-169.	2.1	28
34	High dimensional expanders and property testing. , 2014, , .		14
35	Ramanujan Complexes and Bounded Degree Topological Expanders. , 2014, , .		13
36	Quantum error correcting codes and 4-dimensional arithmetic hyperbolic manifolds. Journal of Mathematical Physics, 2014, 55, .	1.1	48

#	ARTICLE	IF	CITATIONS
37	IMAGES OF WORD MAPS IN FINITE SIMPLE GROUPS. Glasgow Mathematical Journal, 2014, 56, 465-469.	0.3	14
38	The Galois group of random elements of linear groups. American Journal of Mathematics, 2014, 136, 1347-1383.	1.1	3
39	Finiteness properties and profinite completions. Bulletin of the London Mathematical Society, 2014, 46, 103-110.	0.8	6
40	Deformation theory and finite simple quotients of triangle groups II. Groups, Geometry, and Dynamics, 2014, 8, 811-836.	0.5	6
41	On conjugacy growth of linear groups. Mathematical Proceedings of the Cambridge Philosophical Society, 2013, 154, 261-277.	0.4	7
42	Representation Varieties of Fuchsian Groups. Developments in Mathematics, 2013, , 375-397.	0.4	3
43	Expander graphs in pure and applied mathematics. Bulletin of the American Mathematical Society, 2012, 49, 113-162.	1.5	133
44	Beauville surfaces and finite simple groups. Journal Fur Die Reine Und Angewandte Mathematik, 2012, ,	0.9	6
45	Edge transitive ramanujan graphs and symmetric LDPC good codes. , 2012, , .		6
46	SIEVE METHODS IN GROUP THEORY III: $\text{Aut}(F_{n})$. International Journal of Algebra and Computation, 2012, 22, 1250062.	0.5	1
47	Sieve methods in group theory I: Powers in linear groups. Journal of the American Mathematical Society, 2012, 25, 1119-1148.	3.9	13
48	Sieve methods in group theory II: the mapping class group. Geometriae Dedicata, 2012, 159, 327-336.	0.3	8
49	Manifolds counting and class field towers. Advances in Mathematics, 2012, 229, 3123-3146.	1.1	6
50	Lattices with and lattices without spectral gap. Groups, Geometry, and Dynamics, 2011, 5, 251-264.	0.5	6
51	Invariable generation and the Chebotarev invariant of a finite group. Journal of Algebra, 2011, 348, 302-314.	0.7	32
52	Finite simple groups of Lie type as expanders. Journal of the European Mathematical Society, 2011, 13, 1331-1341.	1.4	11
53	Counting arithmetic lattices and surfaces. Annals of Mathematics, 2010, 172, 2197-2221.	4.2	29
54	Linear Representations of the Automorphism Group of a Free Group. Geometric and Functional Analysis, 2009, 18, 1564-1608.	1.8	35

#	ARTICLE	IF	CITATIONS
55	Dimension expanders. <i>Journal of Algebra</i> , 2008, 319, 730-738.	0.7	11
56	Elementary equivalence of profinite groups. <i>Bulletin of the London Mathematical Society</i> , 2008, 40, 887-896.	0.8	9
57	Representation growth of linear groups. <i>Journal of the European Mathematical Society</i> , 2008, 10, 351-390.	1.4	42
58	A Moore bound for simplicial complexes. <i>Bulletin of the London Mathematical Society</i> , 2007, 39, 353-358.	0.8	14
59	Division algebras and noncommensurable isospectral manifolds. <i>Duke Mathematical Journal</i> , 2006, 135, 361.	1.5	13
60	Isospectral Cayley graphs of some finite simple groups. <i>Duke Mathematical Journal</i> , 2006, 135, 381.	1.5	6
61	Finite simple groups as expanders. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 6116-6119.	7.1	37
62	Explicit constructions of Ramanujan complexes of type $\langle \text{si5.gif} \rangle$. <i>Explicit constructions of Ramanujan complexes of type $\langle \text{si5.gif} \rangle$</i> . http://www.elsevier.com/xml/xocs/dtd http://www.w3.org/2001/XMLSchema	0.8	69
63	Finite groups and hyperbolic manifolds. <i>Inventiones Mathematicae</i> , 2005, 162, 459-472.	2.5	26
64	Ramanujan complexes of type \tilde{A}_d . <i>Israel Journal of Mathematics</i> , 2005, 149, 267-299.	0.8	78
65	The Finitary Andrews-Curtis Conjecture. , 2005, , 15-30.		3
66	Counting primes, groups, and manifolds. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 13428-13430.	7.1	7
67	Counting congruence subgroups. <i>Acta Mathematica</i> , 2004, 193, 73-104.	3.9	13
68	Subgroup growth of lattices in semisimple Lie groups. <i>Acta Mathematica</i> , 2004, 193, 105-139.	3.9	12
69	Polynomial representation growth and the congruence subgroup problem. <i>Israel Journal of Mathematics</i> , 2004, 144, 293-316.	0.8	32
70	BOUNDED GENERATION AND LINEAR GROUPS. <i>International Journal of Algebra and Computation</i> , 2003, 13, 401-413.	0.5	10
71	Subgroup Growth. , 2003, , .		161
72	The expected number of random elements to generate a finite group. <i>Journal of Algebra</i> , 2002, 257, 452-459.	0.7	20

#	ARTICLE	IF	CITATIONS
73	The Proalgebraic Completion of Rigid Groups. <i>Geometriae Dedicata</i> , 2002, 95, 19-58.	0.3	19
74	Arithmetic structure of fundamental groups and actions of semisimple Lie groups. <i>Topology</i> , 2001, 40, 851-869.	0.3	8
75	Enumerating Boundedly Generated Finite Groups. <i>Journal of Algebra</i> , 2001, 238, 194-199.	0.7	19
76	Pro-finite Presentations. <i>Journal of Algebra</i> , 2001, 242, 672-690.	0.7	33
77	The product replacement algorithm and Kazhdan's property (T). <i>Journal of the American Mathematical Society</i> , 2000, 14, 347-363.	3.9	48
78	The word and Riemannian metrics on lattices of semisimple groups. <i>Publications Mathematiques De L'Institut Des Hautes Etudes Scientifiques</i> , 2000, 91, 5-53.	4.3	58
79	Nonarithmetic Superrigid Groups: Counterexamples to Platonov's Conjecture. <i>Annals of Mathematics</i> , 2000, 151, 1151.	4.2	22
80	Not Every Uniform Tree Covers Ramanujan Graphs. <i>Journal of Combinatorial Theory Series B</i> , 1998, 74, 202-212.	1.0	11
81	Functional equations and uniformity for local zeta functions of nilpotent groups. <i>American Journal of Mathematics</i> , 1996, 118, 39-90.	1.1	26
82	Free quotients and the first betti number of some hyperbolic manifolds. <i>Transformation Groups</i> , 1996, 1, 71-82.	0.7	56
83	Discrete groups of slow subgroup growth. <i>Israel Journal of Mathematics</i> , 1996, 96, 399-418.	0.8	16
84	Eigenvalues of the Laplacian, the First Betti Number and the Congruence Subgroup Problem. <i>Annals of Mathematics</i> , 1996, 144, 441.	4.2	39
85	Subgroup growth and congruence subgroups. <i>Inventiones Mathematicae</i> , 1995, 119, 267-295.	2.5	81
86	Rigidity of Group Actions on Locally Finite Trees. <i>Proceedings of the London Mathematical Society</i> , 1994, s3-69, 541-575.	1.3	10
87	On some $\hat{\mathbb{Z}}$ -analytic pro-p groups. <i>Israel Journal of Mathematics</i> , 1994, 85, 307-337.	0.8	46
88	Discrete Groups, Expanding Graphs and Invariant Measures. , 1994, , .		364
89	Finitely generated groups of polynomial subgroup growth. <i>Israel Journal of Mathematics</i> , 1993, 82, 363-371.	0.8	60
90	TORSION IN PROFINITE COMPLETIONS OF TORSION-FREE GROUPS. <i>Quarterly Journal of Mathematics</i> , 1993, 44, 327-332.	0.8	10

#	ARTICLE	IF	CITATIONS
91	Hilbertian Fields and Free Profinite Groups. Journal of the London Mathematical Society, 1992, s2-46, 205-227.	1.0	7
92	Lattices in rank one Lie groups over local fields. Geometric and Functional Analysis, 1991, 1, 405-431.	1.8	55
93	On groups of polynomial subgroup growth. Inventiones Mathematicae, 1991, 104, 521-533.	2.5	51
94	The probability of generating a finite classical group. Geometriae Dedicata, 1990, 36, 67.	0.3	126
95	Locally Symmetric Graphs of Prescribed Girth and Coxeter Groups. SIAM Journal on Discrete Mathematics, 1990, 3, 277-280.	0.8	3
96	Variants of Kazhdan's property for subgroups of semisimple groups. Israel Journal of Mathematics, 1989, 66, 289-299.	0.8	36
97	Residually finite groups of finite rank. Mathematical Proceedings of the Cambridge Philosophical Society, 1989, 106, 385-388.	0.4	35
98	Ramanujan graphs. Combinatorica, 1988, 8, 261-277.	1.2	1,013
99	A group theoretic characterization of linear groups. Journal of Algebra, 1988, 113, 207-214.	0.7	43
100	On Finite Index Subgroups of Linear Groups. Bulletin of the London Mathematical Society, 1987, 19, 325-328.	0.8	14
101	Hecke operators and distributing points on S^2 . II. Communications on Pure and Applied Mathematics, 1987, 40, 401-420.	3.1	70
102	Powerful p -groups. I. Finite groups. Journal of Algebra, 1987, 105, 484-505.	0.7	181
103	Powerful p -groups. II. p -adic analytic groups. Journal of Algebra, 1987, 105, 506-515.	0.7	59
104	Maximal abelian subgroups of free profinite groups. Mathematical Proceedings of the Cambridge Philosophical Society, 1985, 97, 51-55.	0.4	11
105	Automorphisms of groups and of schemes of finite type. Israel Journal of Mathematics, 1983, 44, 1-22.	0.8	32
106	Group Presentation, p -Adic Analytic Groups and Lattices in $SL_2(\mathbb{C})$. Annals of Mathematics, 1983, 118, 115.	4.2	77
107	Abelian and solvable subgroups of the mapping class groups. Duke Mathematical Journal, 1983, 50, 1107.	1.5	147
108	Embedding covers and the theory of Frobenius fields. Israel Journal of Mathematics, 1982, 41, 181-202.	0.8	13

#	ARTICLE	IF	CITATIONS
109	Free quotients and the congruence kernel of SL_2 . <i>Journal of Algebra</i> , 1982, 77, 411-418.	0.7	32
110	Combinatorial group theory for pro-p groups. <i>Journal of Pure and Applied Algebra</i> , 1982, 25, 311-325.	0.6	49
111	Subgroups of free profinite groups and large subfields of $\mathbb{Q}^{\text{limits}^{\sim}}$. <i>Israel Journal of Mathematics</i> , 1981, 39, 25-45.	0.8	42
112	Normal automorphisms of free groups. <i>Journal of Algebra</i> , 1980, 63, 494-498.	0.7	43
113	Tannaka Duality for Discrete Groups. <i>American Journal of Mathematics</i> , 1980, 102, 663.	1.1	9