Alexander Lubotzky

List of Publications by Year in descending order

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147801 144013 4,373 113 31 57 citations h-index g-index papers 116 116 116 982 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Ramanujan graphs. Combinatorica, 1988, 8, 261-277.	1.2	1,013
2	Discrete Groups, Expanding Graphs and Invariant Measures. , 1994, , .		364
3	Powerful p-groups. I. Finite groups. Journal of Algebra, 1987, 105, 484-505.	0.7	181
4	Subgroup Growth., 2003,,.		161
5	Abelian and solvable subgroups of the mapping class groups. Duke Mathematical Journal, 1983, 50, 1107.	1.5	147
6	Expander graphs in pure and applied mathematics. Bulletin of the American Mathematical Society, 2012, 49, 113-162.	1.5	133
7	The probability of generating a finite classical group. Geometriae Dedicata, 1990, 36, 67.	0.3	126
8	Subgroup growth and congruence subgroups. Inventiones Mathematicae, 1995, 119, 267-295.	2.5	81
9	Ramanujan complexes of type $ ilde{A} f$ d. Israel Journal of Mathematics, 2005, 149, 267-299.	0.8	78
10	Group Presentation, p-Adic Analytic Groups and Lattices in SL 2 (C). Annals of Mathematics, $1983,118,115.$	4.2	77
11	Hecke operators and distributing points onS2. II. Communications on Pure and Applied Mathematics, 1987, 40, 401-420. Explicit constructions of Ramanujan complexes of type <mml:math <="" altimg="si5.gif" display="inline" td=""><td>3.1</td><td>70</td></mml:math>	3.1	70
12	overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.w3.org/1998/Math/MathML"	0.8	69
13	xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/co ymlns:sb="http://www.elsevier.com/xml/co Finitely generated groups of polynomial subgroup growth. Israel Journal of Mathematics, 1993, 82, 363-371.	0.8	60
14	Powerful p-groups. II. p-adic analytic groups. Journal of Algebra, 1987, 105, 506-515.	0.7	59
15	The word and Riemannian metrics on lattices of semisimple groups. Publications Mathematiques De L'Institut Des Hautes Etudes Scientifiques, 2000, 91, 5-53.	4.3	58
16	Free quotients and the first betti number of some hyperbolic manifolds. Transformation Groups, 1996, 1, 71-82.	0.7	56
17	Lattices in rank one Lie groups over local fields. Geometric and Functional Analysis, 1991, 1, 405-431.	1.8	55
18	On groups of polynomial subgroup growth. Inventiones Mathematicae, 1991, 104, 521-533.	2.5	51

#	Article	ΙF	Citations
19	Combinatorial group theory for pro-p groups. Journal of Pure and Applied Algebra, 1982, 25, 311-325.	0.6	49
20	The product replacement algorithm and Kazhdan's property (T). Journal of the American Mathematical Society, 2000, 14, 347-363.	3.9	48
21	Quantum error correcting codes and 4-dimensional arithmetic hyperbolic manifolds. Journal of Mathematical Physics, 2014, 55, .	1.1	48
22	On some Î-analytic pro-p groups. Israel Journal of Mathematics, 1994, 85, 307-337.	0.8	46
23	Normal automorphisms of free groups. Journal of Algebra, 1980, 63, 494-498.	0.7	43
24	A group theoretic characterization of linear groups. Journal of Algebra, 1988, 113, 207-214.	0.7	43
25	Subgroups of free profinite groups and large subfields of \$\$mathop Qlimits^ sim \$\$. Israel Journal of Mathematics, 1981, 39, 25-45.	0.8	42
26	Representation growth of linear groups. Journal of the European Mathematical Society, 2008, 10, 351-390.	1.4	42
27	Eigenvalues of the Laplacian, the First Betti Number and the Congruence Subgroup Problem. Annals of Mathematics, 1996, 144, 441.	4.2	39
28	Finite simple groups as expanders. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103 , 6116 - 6119 .	7.1	37
29	Variants of Kazhdan's property for subgroups of semisimple groups. Israel Journal of Mathematics, 1989, 66, 289-299.	0.8	36
30	Residually finite groups of finite rank. Mathematical Proceedings of the Cambridge Philosophical Society, 1989, 106, 385-388.	0.4	35
31	Linear Representations of the Automorphism Group of a Free Group. Geometric and Functional Analysis, 2009, 18, 1564-1608.	1.8	35
32	Pro-finite Presentations. Journal of Algebra, 2001, 242, 672-690.	0.7	33
33	Free quotients and the congruence kernel of SL2. Journal of Algebra, 1982, 77, 411-418.	0.7	32
34	Automorphisms of groups and of schemes of finite type. Israel Journal of Mathematics, 1983, 44, 1-22.	0.8	32
35	Polynomial representation growth and the congruence subgroup problem. Israel Journal of Mathematics, 2004, 144, 293-316.	0.8	32
36	Invariable generation and the Chebotarev invariant of a finite group. Journal of Algebra, 2011, 348, 302-314.	0.7	32

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37	Counting arithmetic lattices and surfaces. Annals of Mathematics, 2010, 172, 2197-2221.	4.2	29
38	Ramanujan complexes and high dimensional expanders. Japanese Journal of Mathematics, 2014, 9, 137-169.	2.1	28
39	Isoperimetric Inequalities for Ramanujan Complexes and Topological Expanders. Geometric and Functional Analysis, 2016, 26, 250-287.	1.8	28
40	Functional equations and uniformity for local zeta functions of nilpotent groups. American Journal of Mathematics, 1996, 118, 39-90.	1.1	26
41	Finite groups and hyperbolic manifolds. Inventiones Mathematicae, 2005, 162, 459-472.	2.5	26
42	Arithmetic quotients of the mapping class group. Geometric and Functional Analysis, 2015, 25, 1493-1542.	1.8	25
43	Stability and invariant random subgroups. Duke Mathematical Journal, 2019, 168, .	1.5	25
44	Nonarithmetic Superrigid Groups: Counterexamples to Platonov's Conjecture. Annals of Mathematics, 2000, 151, 1151.	4.2	22
45	The expected number of random elements to generate a finite group. Journal of Algebra, 2002, 257, 452-459.	0.7	20
46	Enumerating Boundedly Generated Finite Groups. Journal of Algebra, 2001, 238, 194-199.	0.7	19
47	The Proalgebraic Completion of Rigid Groups. Geometriae Dedicata, 2002, 95, 19-58.	0.3	19
48	Locally testable codes with constant rate, distance, and locality. , 2022, , .		18
49	STABILITY, COHOMOLOGY VANISHING, AND NONAPPROXIMABLE GROUPS. Forum of Mathematics, Sigma, 2020, 8, .	0.7	17
50	Discrete groups of slow subgroup growth. Israel Journal of Mathematics, 1996, 96, 399-418.	0.8	16
51	Invariable generation of infinite groups. Journal of Algebra, 2015, 421, 296-310.	0.7	15
52	HIGH DIMENSIONAL EXPANDERS. , 2019, , .		15
53	On Finite Index Subgroups of Linear Groups. Bulletin of the London Mathematical Society, 1987, 19, 325-328.	0.8	14
54	A Moore bound for simplicial complexes. Bulletin of the London Mathematical Society, 2007, 39, 353-358.	0.8	14

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55	High dimensional expanders and property testing. , 2014, , .		14
56	IMAGES OF WORD MAPS IN FINITE SIMPLE GROUPS. Glasgow Mathematical Journal, 2014, 56, 465-469.	0.3	14
57	Embedding covers and the theory of frobenius fields. Israel Journal of Mathematics, 1982, 41, 181-202.	0.8	13
58	Counting congruence subgroups. Acta Mathematica, 2004, 193, 73-104.	3.9	13
59	Division algebras and noncommensurable isospectral manifolds. Duke Mathematical Journal, 2006, 135, 361.	1.5	13
60	Sieve methods in group theory I: Powers in linear groups. Journal of the American Mathematical Society, 2012, 25, 1119-1148.	3.9	13
61	Ramanujan Complexes and Bounded Degree Topological Expanders. , 2014, , .		13
62	Group stability and Property (T). Journal of Functional Analysis, 2020, 278, 108298.	1.4	13
63	Subgroup growth of lattices in semisimple Lie groups. Acta Mathematica, 2004, 193, 105-139.	3.9	12
64	Random Latin squares and 2-dimensional expanders. Advances in Mathematics, 2015, 272, 743-760.	1.1	12
65	Maximal abelian subgroups of free profinite groups. Mathematical Proceedings of the Cambridge Philosophical Society, 1985, 97, 51-55.	0.4	11
66	Not Every Uniform Tree Covers Ramanujan Graphs. Journal of Combinatorial Theory Series B, 1998, 74, 202-212.	1.0	11
67	Dimension expanders. Journal of Algebra, 2008, 319, 730-738.	0.7	11
68	Finite simple groups of Lie type as expanders. Journal of the European Mathematical Society, 2011, 13, 1331-1341.	1.4	11
69	First order rigidity of non-uniform higher rank arithmetic groups. Inventiones Mathematicae, 2019, 217, 219-240.	2.5	11
70	TORSION IN PROFINITE COMPLETIONS OF TORSION-FREE GROUPS. Quarterly Journal of Mathematics, 1993, 44, 327-332.	0.8	10
71	Rigidity of Group Actions on Locally Finite Trees. Proceedings of the London Mathematical Society, 1994, s3-69, 541-575.	1.3	10
72	BOUNDED GENERATION AND LINEAR GROUPS. International Journal of Algebra and Computation, 2003, 13, 401-413.	0.5	10

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73	Tannaka Duality for Discrete Groups. American Journal of Mathematics, 1980, 102, 663.	1.1	9
74	Elementary equivalence of profinite groups. Bulletin of the London Mathematical Society, 2008, 40, 887-896.	0.8	9
75	Expansion of building-like complexes. Groups, Geometry, and Dynamics, 2016, 10, 155-175.	0.5	9
76	Arithmetic structure of fundamental groups and actions of semisimple Lie groups. Topology, 2001, 40, 851-869.	0.3	8
77	Sieve methods in group theory II: the mapping class group. Geometriae Dedicata, 2012, 159, 327-336.	0.3	8
78	Random methods in 3-manifold theory. Proceedings of the Steklov Institute of Mathematics, 2016, 292, 118-142.	0.3	8
79	Hilbertian Fields and Free Profinite Groups. Journal of the London Mathematical Society, 1992, s2-46, 205-227.	1.0	7
80	Counting primes, groups, and manifolds. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 13428-13430.	7.1	7
81	On conjugacy growth of linear groups. Mathematical Proceedings of the Cambridge Philosophical Society, 2013, 154, 261-277.	0.4	7
82	Random walks on Ramanujan complexes and digraphs. Journal of the European Mathematical Society, 2020, 22, 3441-3466.	1.4	7
83	Isospectral Cayley graphs of some finite simple groups. Duke Mathematical Journal, 2006, 135, 381.	1.5	6
84	Lattices with and lattices without spectral gap. Groups, Geometry, and Dynamics, 2011, 5, 251-264.	0.5	6
85	Beauville surfaces and finite simple groups. Journal Fur Die Reine Und Angewandte Mathematik, 2012, 2012, .	0.9	6
86	Edge transitive ramanujan graphs and symmetric LDPC good codes. , 2012, , .		6
87	Manifolds counting and class field towers. Advances in Mathematics, 2012, 229, 3123-3146.	1.1	6
88	Finiteness properties and profinite completions. Bulletin of the London Mathematical Society, 2014, 46, 103-110.	0.8	6
89	Deformation theory and finite simple quotients of triangle groups II. Groups, Geometry, and Dynamics, 2014, 8, 811-836.	0.5	6
90	Mixing Properties and the Chromatic Number of Ramanujan Complexes. International Mathematics Research Notices, 2015, , .	1.0	5

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91	Generalized triangle groups, expanders, and a problem of Agol and Wise. Commentarii Mathematici Helvetici, 2019, 94, 53-66.	0.7	5
92	Random Steiner systems and bounded degree coboundary expanders of every dimension. Discrete and Computational Geometry, 2019, 62, 813-831.	0.6	5
93	WHAT ISa Thin Group?. Notices of the American Mathematical Society, 2019, 66, 1.	0.2	5
94	The congruence subgroup problem for low rank free and free metabelian groups. Journal of Algebra, 2018, 500, 171-192.	0.7	4
95	Non p-norm approximated Groups. Journal D'Analyse Mathematique, 2020, 141, 305-321.	0.8	4
96	Locally Symmetric Graphs of Prescribed Girth and Coxeter Groups. SIAM Journal on Discrete Mathematics, 1990, 3, 277-280.	0.8	3
97	The Galois group of random elements of linear groups. American Journal of Mathematics, 2014, 136, 1347-1383.	1.1	3
98	Good cyclic codes and the uncertainty principle. L'Enseignement Mathematique, 2018, 63, 305-332.	0.1	3
99	Infinitely presented permutation stable groups and invariant random subgroups of metabelian groups. Ergodic Theory and Dynamical Systems, 2022, 42, 2028-2063.	0.6	3
100	The Finitary Andrews-Curtis Conjecture. , 2005, , 15-30.		3
100	The Finitary Andrews-Curtis Conjecture. , 2005, , 15-30. Representation Varieties of Fuchsian Groups. Developments in Mathematics, 2013, , 375-397.	0.4	3
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101	Representation Varieties of Fuchsian Groups. Developments in Mathematics, 2013, , 375-397.		3
101	Representation Varieties of Fuchsian Groups. Developments in Mathematics, 2013, , 375-397. On groups and simplicial complexes. European Journal of Combinatorics, 2018, 70, 408-444. From Ramanujan graphs to Ramanujan complexes. Philosophical Transactions Series A, Mathematical,	0.8	2
101	Representation Varieties of Fuchsian Groups. Developments in Mathematics, 2013, , 375-397. On groups and simplicial complexes. European Journal of Combinatorics, 2018, 70, 408-444. From Ramanujan graphs to Ramanujan complexes. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20180445. Constructing highly regular expanders from hyperbolic Coxeter groups. Transactions of the	0.8	2
101 102 103	Representation Varieties of Fuchsian Groups. Developments in Mathematics, 2013, , 375-397. On groups and simplicial complexes. European Journal of Combinatorics, 2018, 70, 408-444. From Ramanujan graphs to Ramanujan complexes. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20180445. Constructing highly regular expanders from hyperbolic Coxeter groups. Transactions of the American Mathematical Society, 2021, 375, 325-350. SIEVE METHODS IN GROUP THEORY III: Aut (F _n). International Journal of	0.8 3.4 0.9	3 2 2 2
101 102 103 104	Representation Varieties of Fuchsian Groups. Developments in Mathematics, 2013, , 375-397. On groups and simplicial complexes. European Journal of Combinatorics, 2018, 70, 408-444. From Ramanujan graphs to Ramanujan complexes. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20180445. Constructing highly regular expanders from hyperbolic Coxeter groups. Transactions of the American Mathematical Society, 2021, 375, 325-350. SIEVE METHODS IN GROUP THEORY III: Aut (F _n). International Journal of Algebra and Computation, 2012, 22, 1250062.	0.8 3.4 0.9	3 2 2 2

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#	Article	IF	CITATIONS
109	The congruence topology, Grothendieck duality and thin groups. Algebra and Number Theory, 2019, 13, 1281-1298.	0.6	1
110	Testability of relations between permutations. , 2022, , .		1
111	A trichotomy theorem for transformation groups of locally symmetric manifolds and topological rigidity. Advances in Mathematics, 2018, 327, 25-46.	1.1	O
112	On representations of Gal(Q‾/Q), GTˆ and Aut(Fˆ2). Journal of Algebra, 2021, , .	0.7	0
113	The congruence subgroup problem for finitely generated nilpotent groups. Journal of Group Theory, 2021, .	0.2	0