

Robert Guralnick

List of Publications by Year in descending order

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133
papers

2,559
citations

201674

27
h-index

254184

43
g-index

137
all docs

137
docs citations

137
times ranked

480
citing authors

#	ARTICLE	IF	CITATIONS
1	Cohen Lenstra partitions and mutually annihilating matrices over a finite field. <i>Linear Algebra and Its Applications</i> , 2022, 645, 1-8.	0.9	1
2	Commuting involutions and elementary abelian subgroups of simple groups. <i>Journal of Algebra</i> , 2021, , .	0.7	1
3	On the singular value decomposition over finite fields and orbits of $GU_{\mathbb{A}}^n$ — GU . <i>Indagationes Mathematicae</i> , 2021, 32, 1083-1094.	0.4	0
4	Simple Lie groups stabilizing G -invariant norms. <i>Linear Algebra and Its Applications</i> , 2021, 609, 308-316.	0.9	0
5	Sectional rank and cohomology. <i>Journal of Algebra</i> , 2020, 558, 434-452.	0.7	3
6	Variants of some of the Brauer-Fowler theorems. <i>Journal of Algebra</i> , 2020, 558, 453-484.	0.7	6
7	Topological generation of exceptional algebraic groups. <i>Advances in Mathematics</i> , 2020, 369, 107177.	1.1	5
8	GENERALLY FREE REPRESENTATIONS III: EXTREMELY BAD CHARACTERISTIC. <i>Transformation Groups</i> , 2020, 25, 819-841.	0.7	3
9	Centers of Sylow subgroups and automorphisms. <i>Israel Journal of Mathematics</i> , 2020, 240, 253-266.	0.8	2
10	Generically free representations, I: large representations. <i>Algebra and Number Theory</i> , 2020, 14, 1577-1611.	0.6	4
11	GENERALLY FREE REPRESENTATIONS II: IRREDUCIBLE REPRESENTATIONS. <i>Transformation Groups</i> , 2020, 25, 793-817.	0.7	3
12	On the generalized Fitting height and insoluble length of finite groups. <i>Bulletin of the London Mathematical Society</i> , 2020, 52, 924-931.	0.8	2
13	CHARACTER LEVELS AND CHARACTER BOUNDS. <i>Forum of Mathematics, Pi</i> , 2020, 8, .	2.0	6
14	Real constituents of permutation characters. <i>Journal of Algebra</i> , 2020, , .	0.7	1
15	Permutation representations of nonsplit extensions involving alternating groups. <i>Israel Journal of Mathematics</i> , 2019, 229, 181-191.	0.8	1
16	Conjugacy classes, characters and products of elements. <i>Mathematische Nachrichten</i> , 2019, 292, 1315-1320.	0.8	4
17	Rigid local systems and alternating groups. <i>Tunisian Journal of Mathematics</i> , 2019, 1, 295-320.	0.6	5
18	Zero-one generation laws for finite simple groups. <i>Proceedings of the American Mathematical Society</i> , 2019, 147, 2331-2347.	0.8	2

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19	Surjective word maps and Burnside's $p^a q^b$ theorem. <i>Inventiones Mathematicae</i> , 2018, 213, 589-695.	2.5	17
20	On isometry groups of self-adjoint traceless and skew-symmetric matrices. <i>Linear Algebra and Its Applications</i> , 2018, 541, 211-220.	0.9	2
21	Derangements in finite classical groups for actions related to extension field and imprimitive subgroups and the solution of the Boston-Shalev conjecture. <i>Transactions of the American Mathematical Society</i> , 2018, 370, 4601-4622.	0.9	10
22	Enumeration of Commuting Pairs in Lie Algebras over Finite Fields. <i>Annals of Combinatorics</i> , 2018, 22, 295-316.	0.6	6
23	Global Oort groups. <i>Journal of Algebra</i> , 2017, 473, 374-396.	0.7	2
24	Asymptotics of the number of involutions in finite classical groups. <i>Journal of Group Theory</i> , 2017, 20, .	0.2	7
25	Normalizers of primitive permutation groups. <i>Advances in Mathematics</i> , 2017, 310, 1017-1063.	1.1	21
26	Spinors and essential dimension. <i>Compositio Mathematica</i> , 2017, 153, 535-556.	0.8	9
27	Endomorphism fields of abelian varieties. <i>Research in Number Theory</i> , 2017, 3, 1.	0.4	3
28	Adequate subgroups and indecomposable modules. <i>Journal of the European Mathematical Society</i> , 2017, 19, 1231-1291.	1.4	3
29	On base sizes for algebraic groups. <i>Journal of the European Mathematical Society</i> , 2017, 19, 2269-2341.	1.4	20
30	Derangements in subspace actions of finite classical groups. <i>Transactions of the American Mathematical Society</i> , 2016, 369, 2521-2572.	0.9	14
31	Conjugacy classes of derangements in finite transitive groups. <i>Proceedings of the Steklov Institute of Mathematics</i> , 2016, 292, 112-117.	0.3	2
32	Essential dimension of algebraic groups, including bad characteristic. <i>Archiv Der Mathematik</i> , 2016, 107, 101-119.	0.5	6
33	Rational rigidity for $F_4(p)$. <i>Advances in Mathematics</i> , 2016, 302, 48-58.	1.1	1
34	On the maximal number of coprime subdegrees in finite primitive permutation groups. <i>Israel Journal of Mathematics</i> , 2016, 216, 107-147.	0.8	2
35	SIMPLE GROUPS STABILIZING POLYNOMIALS. <i>Forum of Mathematics, Pi</i> , 2015, 3, .	2.0	17
36	Squaring a conjugacy class and cosets of normal subgroups. <i>Proceedings of the American Mathematical Society</i> , 2015, 144, 1939-1945.	0.8	17

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37	Adequate groups of low degree. <i>Algebra and Number Theory</i> , 2015, 9, 77-147.	0.6	4
38	Lifting in Frattini covers and a characterization of finite solvable groups. <i>Journal Fur Die Reine Und Angewandte Mathematik</i> , 2015, 2015, 49-72.	0.9	14
39	On rational and concise words. <i>Journal of Algebra</i> , 2015, 429, 213-217.	0.7	16
40	Variations on the Baer–Suzuki theorem. <i>Mathematische Zeitschrift</i> , 2015, 279, 981-1006.	0.9	8
41	Products and commutators of classes in algebraic groups. <i>Mathematische Annalen</i> , 2015, 362, 743-771.	1.4	3
42	On a relation between the rank and the proportion of derangements in finite transitive permutation groups. <i>Journal of Combinatorial Theory - Series A</i> , 2015, 136, 198-200.	0.8	3
43	Effective results on the Waring problem for finite simple groups. <i>American Journal of Mathematics</i> , 2015, 137, 1401-1430.	1.1	11
44	Groups with exactly one irreducible character of degree divisible by p . <i>Algebra and Number Theory</i> , 2014, 8, 397-428.	0.6	7
45	Rational rigidity for. <i>Compositio Mathematica</i> , 2014, 150, 1679-1702.	0.8	13
46	Cosets of Sylow p -subgroups and a question of Richard Taylor. <i>Journal of Algebra</i> , 2014, 398, 569-573.	0.7	3
47	Base sizes for S -actions of finite classical groups. <i>Israel Journal of Mathematics</i> , 2014, 199, 711-756.	0.8	18
48	Coprime subdegrees for primitive permutation groups and completely reducible linear groups. <i>Israel Journal of Mathematics</i> , 2013, 195, 745-772.	0.8	9
49	On the non-coprime kG -modules. <i>Journal of Algebra</i> , 2013, 411, 107-121.	0.7	10
50	Products of conjugacy classes in finite and algebraic simple groups. <i>Advances in Mathematics</i> , 2013, 234, 618-652.	1.1	27
51	Simple groups admit Beauville structures. <i>Journal of the London Mathematical Society</i> , 2012, 85, 694-721.	1.0	58
52	A problem of Kollár and Larsen on finite linear groups and crepant resolutions. <i>Journal of the European Mathematical Society</i> , 2012, 14, 605-657.	1.4	7
53	Bounds on the number and sizes of conjugacy classes in finite Chevalley groups with applications to derangements. <i>Transactions of the American Mathematical Society</i> , 2012, 364, 3023-3070.	0.9	86
54	Products of conjugacy classes and fixed point spaces. <i>Journal of the American Mathematical Society</i> , 2012, 25, 77-121.	3.9	56

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55	A new solvability criterion for finite groups. <i>Journal of the London Mathematical Society</i> , 2012, 85, 269-281.	1.0	14
56	Representation growth in positive characteristic and conjugacy classes of maximal subgroups. <i>Duke Mathematical Journal</i> , 2012, 161, .	1.5	8
57	Strongly dense free subgroups of semisimple algebraic groups. <i>Israel Journal of Mathematics</i> , 2012, 192, 347-379.	0.8	22
58	Adequate subgroups II. <i>Bulletin of Mathematical Sciences</i> , 2012, 2, 193-203.	0.7	5
59	On base sizes for symmetric groups. <i>Bulletin of the London Mathematical Society</i> , 2011, 43, 386-391.	0.8	48
60	Real class sizes and real character degrees. <i>Mathematical Proceedings of the Cambridge Philosophical Society</i> , 2011, 150, 47-71.	0.4	10
61	First cohomology groups of Chevalley groups in cross characteristic. <i>Annals of Mathematics</i> , 2011, 174, 543-559.	4.2	14
62	Average dimension of fixed point spaces with applications. <i>Advances in Mathematics</i> , 2011, 226, 298-308.	1.1	12
63	Remarks on proficient groups. <i>Journal of Algebra</i> , 2011, 326, 169-184.	0.7	1
64	Frobenius subgroups of free profinite products. <i>Bulletin of the London Mathematical Society</i> , 2011, 43, 467-477.	0.8	5
65	The local lifting problem for actions of finite groups on curves. <i>Annales Scientifiques De L'Ecole Normale Superieure</i> , 2011, 44, 537-605.	0.8	10
66	Nil subrings of endomorphism rings of finitely generated modules over affine PI-rings. <i>Journal of Algebra</i> , 2010, 324, 3044-3047.	0.7	1
67	Hamiltonian cycles in the generating graphs of finite groups. <i>Bulletin of the London Mathematical Society</i> , 2010, 42, 621-633.	0.8	21
68	On fixed points of permutations. <i>Journal of Algebraic Combinatorics</i> , 2008, 28, 189-218.	0.8	24
69	Symmetric powers and a problem of KollÅr and Larsen. <i>Inventiones Mathematicae</i> , 2008, 174, 505-554.	2.5	23
70	Probabilistic generation of finite simple groups, II. <i>Journal of Algebra</i> , 2008, 320, 443-494.	0.7	72
71	Nonisomorphic curves that become isomorphic over extensions of coprime degrees. <i>Journal of Algebra</i> , 2008, 320, 2526-2558.	0.7	4
72	Sets of elements that pairwise generate a linear group. <i>Journal of Combinatorial Theory - Series A</i> , 2008, 115, 442-465.	0.8	29

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73	FROBENIUS GROUPS AS MONODROMY GROUPS. Journal of the Australian Mathematical Society, 2008, 85, 191-196.	0.4	4
74	Oort groups and lifting problems. Compositio Mathematica, 2008, 144, 849-866.	0.8	18
75	BURNSIDE-TYPE PROBLEMS RELATED TO SOLVABILITY. International Journal of Algebra and Computation, 2007, 17, 1033-1048.	0.5	9
76	Presentations of finite simple groups: profinite and cohomological approaches. Groups, Geometry, and Dynamics, 2007, 1, 469-523.	0.5	25
77	Alternating forms and self-adjoint operators. Journal of Algebra, 2007, 308, 330-349.	0.7	22
78	The 2F-modules for nearly simple groups. Journal of Algebra, 2007, 307, 643-676.	0.7	6
79	Intersections of conjugacy classes and subgroups of algebraic groups. Proceedings of the American Mathematical Society, 2006, 135, 689-693.	0.8	8
80	Cross characteristic representations of odd characteristic symplectic groups and unitary groups. Journal of Algebra, 2006, 299, 443-446.	0.7	4
81	On the commuting probability in finite groups. Journal of Algebra, 2006, 300, 509-528.	0.7	80
82	Weakly closed unipotent subgroups in Chevalley groups. Journal of Algebra, 2006, 300, 729-740.	0.7	2
83	Thompson-like characterizations of the solvable radical. Journal of Algebra, 2006, 300, 363-375.	0.7	35
84	The non-coprime <small>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:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://www.elsevier.com/x</small>	0.7	25
85	Decompositions of small tensor powers and Larsen's conjecture. Representation Theory, 2005, 9, 138-208.	0.5	28
86	A Question about $\text{Pic}(X)$ as a G -module. , 2005, , .		0
87	Cross characteristic representations of even characteristic symplectic groups. Transactions of the American Mathematical Society, 2004, 356, 4969-5023.	0.9	47
88	Conjugacy class properties of the extension of $\text{GL}(n, q)$ generated by the inverse transpose involution. Journal of Algebra, 2004, 275, 356-396.	0.7	18
89	Reduction theorems for groups of matrices. Linear Algebra and Its Applications, 2004, 383, 119-126.	0.9	5
90	On the Spread of Finite Simple Groups. Combinatorica, 2003, 23, 73-87.	1.2	16

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91	Subgroups of $GL_n(q)$ which fix sublattices of the subspace lattice. <i>Journal of Algebra</i> , 2003, 259, 147-176.	0.7	0
92	Generation of finite almost simple groups by conjugates. <i>Journal of Algebra</i> , 2003, 268, 519-571.	0.7	79
93	Stable Subnorms II. <i>Linear and Multilinear Algebra</i> , 2003, 51, 209-219.	1.0	6
94	Self-normalizing Sylow subgroups. <i>Proceedings of the American Mathematical Society</i> , 2003, 132, 973-979.	0.8	30
95	DERANGEMENTS IN SIMPLE AND PRIMITIVE GROUPS. , 2003, , 99-121.		25
96	GROUPS WITH EXACTLY TWO SUBGROUPS OF GIVEN ORDER. <i>Communications in Algebra</i> , 2002, 30, 4401-4406.	0.6	0
97	Classification of 2F-modules, I. <i>Journal of Algebra</i> , 2002, 257, 348-372.	0.7	14
98	Cross characteristic representations of symplectic and unitary groups. <i>Journal of Algebra</i> , 2002, 257, 291-347.	0.7	52
99	Derived subgroups of fixed points. <i>Israel Journal of Mathematics</i> , 2001, 126, 345-362.	0.8	22
100	Probabilistic Generation of Finite Simple Groups. <i>Journal of Algebra</i> , 2000, 234, 743-792.	0.7	114
101	Cyclic Quotients of Transitive Groups. <i>Journal of Algebra</i> , 2000, 234, 507-532.	0.7	5
102	The Probability of Generating a Finite Soluble Group. <i>Proceedings of the London Mathematical Society</i> , 2000, 81, 405-427.	1.3	15
103	Low-Dimensional Representations of Special Linear Groups in Cross Characteristics. <i>Proceedings of the London Mathematical Society</i> , 1999, 78, 116-138.	1.3	47
104	Linear Groups with Orders Having Certain Large Prime Divisors. <i>Proceedings of the London Mathematical Society</i> , 1999, 78, 167-214.	1.3	83
105	Random Generation of Finite Simple Groups. <i>Journal of Algebra</i> , 1999, 219, 345-355.	0.7	15
106	Small Representations Are Completely Reducible. <i>Journal of Algebra</i> , 1999, 220, 531-541.	0.7	25
107	On the Minimal Degree of a Primitive Permutation Group. <i>Journal of Algebra</i> , 1998, 207, 127-145.	0.7	58
108	Invertible preservers and algebraic groups III: preservers of unitary similarity (congruence) invariants and overgroups of some unitary subgroups. <i>Linear and Multilinear Algebra</i> , 1997, 43, 257-282.	1.0	17

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109	Invertible Preservers and Algebraic Groups II: Preservers of Similarity Invariants and Overgroups of $\text{PSL}_n(F)$. <i>Linear and Multilinear Algebra</i> , 1997, 43, 221-255.	1.0	10
110	Bounds for fixed point free elements in a transitive group and applications to curves over finite fields. <i>Israel Journal of Mathematics</i> , 1997, 101, 255-287.	0.8	36
111	Modules for Algebraic Groups with Finitely Many Orbits on Subspaces. <i>Journal of Algebra</i> , 1997, 196, 211-250.	0.7	30
112	Shirshov's theorem and representations of semigroups. <i>Pacific Journal of Mathematics</i> , 1997, 181, 159-176.	0.5	24
113	Multiplicative groups of fields modulo products of subfields. <i>Journal of Pure and Applied Algebra</i> , 1996, 106, 233-262.	0.6	7
114	The probability of generating a classical group. <i>Communications in Algebra</i> , 1994, 22, 1395-1402.	0.6	33
115	Invertible preservers and algebraic groups. <i>Linear Algebra and Its Applications</i> , 1994, 212-213, 249-257.	0.9	25
116	Schur covers and Carlitz's conjecture. <i>Israel Journal of Mathematics</i> , 1993, 82, 157-225.	0.8	74
117	On extensions of the Baer-Suzuki Theorem. <i>Israel Journal of Mathematics</i> , 1993, 82, 281-297.	0.8	21
118	Sylow p -Subgroups and Subnormal Subgroups of Finite Groups. <i>Proceedings of the London Mathematical Society</i> , 1993, s3-66, 129-151.	1.3	12
119	A note on commuting pairs of matrices. <i>Linear and Multilinear Algebra</i> , 1992, 31, 71-75.	1.0	59
120	A remark on infinite torsion groups with periodic cohomology. <i>Communications in Algebra</i> , 1992, 20, 1217-1221.	0.6	0
121	Zeros of permutation characters with applications to prime splitting and Brauer groups. <i>Journal of Algebra</i> , 1990, 131, 294-302.	0.7	18
122	On the cohomology of alternating and symmetric groups and decomposition of relation modules. <i>Journal of Pure and Applied Algebra</i> , 1990, 69, 135-140.	0.6	11
123	A question of stafford about affine π algebras. <i>Communications in Algebra</i> , 1990, 18, 3055-3057.	0.6	6
124	On the number of generators of a finite group. <i>Archiv Der Mathematik</i> , 1989, 53, 521-523.	0.5	49
125	On abelian quotients of primitive groups. <i>Proceedings of the American Mathematical Society</i> , 1989, 107, 89-95.	0.8	36
126	Generation of simple groups. <i>Journal of Algebra</i> , 1986, 103, 381-401.	0.7	32

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127	Some applications of the first cohomology group. <i>Journal of Algebra</i> , 1984, 90, 446-460.	0.7	167
128	Generation of the lower central series II. <i>Glasgow Mathematical Journal</i> , 1984, 25, 193-201.	0.3	1
129	Relative Brauer groups of global fields. <i>Archiv Der Mathematik</i> , 1983, 41, 309-318.	0.5	2
130	The rank of a commutator. <i>Linear and Multilinear Algebra</i> , 1983, 13, 167-175.	1.0	10
131	Structure of algebras. <i>Linear and Multilinear Algebra</i> , 1980, 9, 133-140.	1.0	29
132	A note on pairs of matrices with rank one commutator. <i>Linear and Multilinear Algebra</i> , 1979, 8, 97-99.	1.0	20
133	A remark concerning unipotent matrix groups. <i>Linear and Multilinear Algebra</i> , 1979, 7, 87-89.	1.0	4