Robert M Guralnick

List of Publications by Year
in descending order

105	2,117	257450	289244
papers	citations	24 h-index	40 g-index

105	105	105	447
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Subgroups of prime power index in a simple group. Journal of Algebra, 1983, 81, 304-311.	0.7	266
2	Probabilistic Generation of Finite Simple Groups. Journal of Algebra, 2000, 234, 743-792.	0.7	114
3	On the commuting probability in finite groups. Journal of Algebra, 2006, 300, 509-528.	0.7	80
4	Generation of finite almost simple groups by conjugates. Journal of Algebra, 2003, 268, 519-571.	0.7	79
5	Probabilistic generation of finite simple groups, II. Journal of Algebra, 2008, 320, 443-494.	0.7	72
6	A note on commuting pairs of matrices. Linear and Multilinear Algebra, 1992, 31, 71-75.	1.0	59
7	Finite groups of genus zero. Journal of Algebra, 1990, 131, 303-341.	0.7	54
8	Cross characteristic representations of symplectic and unitary groups. Journal of Algebra, 2002, 257, 291-347.	0.7	52
9	On the number of generators of a finite group. Archiv Der Mathematik, 1989, 53, 521-523.	0.5	49
10	Module equivalences: Local to global when primitive polynomials represent units. Journal of Algebra, 1982, 77, 138-157.	0.7	48
11	On base sizes for symmetric groups. Bulletin of the London Mathematical Society, 2011, 43, 386-391.	0.8	48
12	Low-Dimensional Representations of Special Linear Groups in Cross Characteristics. Proceedings of the London Mathematical Society, 1999, 78, 116-138.	1.3	47
13	Cross characteristic representations of even characteristic symplectic groups. Transactions of the American Mathematical Society, 2004, 356, 4969-5023.	0.9	47
14	On abelian quotients of primitive groups. Proceedings of the American Mathematical Society, 1989, 107, 89-95.	0.8	36
15	Commuting pairs and triples of matrices and related varieties. Linear Algebra and Its Applications, 2000, 310, 139-148.	0.9	35
16	The probability of generating a classical group. Communications in Algebra, 1994, 22, 1395-1402.	0.6	33
17	Generation of simple groups. Journal of Algebra, 1986, 103, 381-401.	0.7	32
18	Modules for Algebraic Groups with Finitely Many Orbits on Subspaces. Journal of Algebra, 1997, 196, 211-250.	0.7	30

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19	Finite simple unisingular groups of Lie type. Journal of Group Theory, 2003, 6, .	0.2	29
20	Subgroups inducing the same permutation representation. Journal of Algebra, 1983, 81, 312-319.	0.7	28
21	Commutators and commutator subgroups. Advances in Mathematics, 1982, 45, 319-330.	1.1	27
22	Products of conjugacy classes in finite and algebraic simple groups. Advances in Mathematics, 2013, 234, 618-652.	1.1	27
23	On a result of Schur. Journal of Algebra, 1979, 59, 302-310.	0.7	26
24	Invertible preservers and algebraic groups. Linear Algebra and Its Applications, 1994, 212-213, 249-257.	0.9	25
25	Exceptional Polynomials of Affine Type. Journal of Algebra, 1997, 194, 429-454.	0.7	25
26	Small Representations Are Completely Reducible. Journal of Algebra, 1999, 220, 531-541.	0.7	25
27	The non-coprime <mml:math altimg="si1.gif" 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: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	0.7	25
28	Roth's theorems and decomposition of modules. Linear Algebra and Its Applications, 1981, 39, 155-165.	0.9	24
29	Symmetric powers and a problem of KollÃ¡r and Larsen. Inventiones Mathematicae, 2008, 174, 505-554.	2.5	23
30	Alternating forms and self-adjoint operators. Journal of Algebra, 2007, 308, 330-349.	0.7	22
31	On extensions of the Baer-Suzuki Theorem. Israel Journal of Mathematics, 1993, 82, 281-297.	0.8	21
32	Normalizers of primitive permutation groups. Advances in Mathematics, 2017, 310, 1017-1063.	1.1	21
33	Similarity of matrices over local rings. Linear Algebra and Its Applications, 1981, 41, 161-174.	0.9	19
34	Zeroes of permutation characters with applications to prime splitting and Brauer groups. Journal of Algebra, 1990, 131, 294-302.	0.7	18
35	Monodromy groups of polynomials. , 1995, , 125-150.		18
36	Base sizes for S-actions of finite classical groups. Israel Journal of Mathematics, 2014, 199, 711-756.	0.8	18

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37	Invertible preservers and algebraic groups III: preservers of unitary similarity (congruence) invariants and overgroups of some unitary subgroups^{â^—}. Linear and Multilinear Algebra, 1997, 43, 257-282.	1.0	17
38	SIMPLE GROUPS STABILIZING POLYNOMIALS. Forum of Mathematics, Pi, 2015, 3, .	2.0	17
39	Surjective word maps and Burnsideâ€™s $$p^aq^b$$ p a q b theorem. Inventiones Mathematicae, 2018, 213, 589-695.	2.5	17
40	Matrix equivalence and isomorphism of modules. Linear Algebra and Its Applications, 1982, 43, 125-136.	0.9	16
41	Subgroups inducing the same permutation representation, II. Journal of Algebra, 1985, 96, 94-113.	0.7	16
42	The genus of a module II. Roiter's theorem, power cancellation and extension of scalars. Journal of Number Theory, 1987, 26, 149-165.	0.4	16
43	On the Spread of Finite Simple Groups. Combinatorica, 2003, 23, 73-87.	1.2	16
44	A note on the local-global principle for similarity of matrices. Linear Algebra and Its Applications, 1980, 30, 241-245.	0.9	15
45	Random Generation of Finite Simple Groups. Journal of Algebra, 1999, 219, 345-355.	0.7	15
46	Roth's theorems for sets of matrices. Linear Algebra and Its Applications, 1985, 71, 113-117.	0.9	14
47	Cancellation and direct summands in dimension 1. Journal of Algebra, 1991, 142, 310-347.	0.7	14
48	Classification of 2F-modules, I. Journal of Algebra, 2002, 257, 348-372.	0.7	14
49	A new solvability criterion for finite groups. Journal of the London Mathematical Society, 2012, 85, 269-281.	1.0	14
50	Lifting in Frattini covers and a characterization of finite solvable groups. Journal Fur Die Reine Und Angewandte Mathematik, 2015, 2015, 49-72.	0.9	14
51	The First Cohomology Group and Generation of Simple Groups. , 1998, , 81-89.		14
52	The dimension of the first cohomology group. Lecture Notes in Mathematics, 1986, , 94-97.	0.2	12
53	Average dimension of fixed point spaces with applications. Advances in Mathematics, 2011, 226, 298-308.	1.1	12
54	On the cohomology of alternating and symmetric groups and decomposition of relation modules. Journal of Pure and Applied Algebra, 1990, 69, 135-140.	0.6	11

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55	Effective results on the Waring problem for finite simple groups. American Journal of Mathematics, 2015, 137, 1401-1430.	1.1	11
56	On groups with decomposable commutator subgroups. Glasgow Mathematical Journal, 1978, 19, 159-162.	0.3	10
57	Invertible Preservers and Algebraic Groups II: Preservers of Similarity Invariants and Overgroups ofPSLn(F). Linear and Multilinear Algebra, 1997, 43, 221-255.	1.0	10
58	Real class sizes and real character degrees. Mathematical Proceedings of the Cambridge Philosophical Society, 2011, 150, 47-71.	0.4	10
59	Spinors and essential dimension. Compositio Mathematica, 2017, 153, 535-556.	0.8	9
60	On cyclic commutator subgroups. Aequationes Mathematicae, 1978, 17, 241-248.	0.8	8
61	On cyclic commutator subgroups. Aequationes Mathematicae, 1980, 21, 33-38.	0.8	8
62	Similarity of matrices over commutative rings. Linear Algebra and Its Applications, 1991, 157, 55-68.	0.9	8
63	On invertible bimodules and automorphisms of noncommutative rings. Transactions of the American Mathematical Society, 1994, 341, 917-937.	0.9	8
64	Representation growth in positive characteristic and conjugacy classes of maximal subgroups. Duke Mathematical Journal, 2012, 161, .	1.5	8
65	Some Applications of Subgroup Structure to Probabilistic Generation and Covers of Curves. , 1998, , 301-320.		8
66	Presentations of modules when ideals need not be principal. Illinois Journal of Mathematics, 1988, 32, .	0.1	7
67	The genus of a module. Journal of Number Theory, 1984, 18, 169-177.	0.4	6
68	Similarity of holomorphic matrices. Linear Algebra and Its Applications, 1988, 99, 85-96.	0.9	6
69	The 2F-modules for nearly simple groups. Journal of Algebra, 2007, 307, 643-676.	0.7	6
70	Essential dimension of algebraic groups, including bad characteristic. Archiv Der Mathematik, 2016, 107, 101-119.	0.5	6
71	Variants of some of the Brauer-Fowler theorems. Journal of Algebra, 2020, 558, 453-484.	0.7	6
72	CHARACTER LEVELS AND CHARACTER BOUNDS. Forum of Mathematics, Pi, 2020, 8, .	2.0	6

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73	Exceptional Polynomials over Arbitrary Fields. , 2004, , 457-472.		6
74	Cancellation counterexamples in Krull dimension 1. Proceedings of the American Mathematical Society, 1990, 109, 323-326.	0.8	6
75	Expressing group elements as commutators. Rocky Mountain Journal of Mathematics, 1980, 10, 651.	0.4	5
76	Isomorphism of modules under ground ring extensions. Journal of Number Theory, 1982, 14, 307-314.	0.4	5
77	Representations under ring extensions: Latimer-MacDuffee and Taussky correspondences. Advances in Mathematics, 1984, 54, 302-313.	1.1	5
78	Primitive permutation characters. , 0, , 364-367.		5
79	A stable range for quadratic forms over commutative rings. Journal of Pure and Applied Algebra, 1997, 120, 255-280.	0.6	5
80	Cyclic Quotients of Transitive Groups. Journal of Algebra, 2000, 234, 507-532.	0.7	5
81	Frobenius subgroups of free profinite products. Bulletin of the London Mathematical Society, 2011, 43, 467-477.	0.8	5
82	Topological generation of exceptional algebraic groups. Advances in Mathematics, 2020, 369, 107177.	1.1	5
83	Elementary divisor theorem for noncommutative PIDs. Proceedings of the American Mathematical Society, 1988, 103, 1003-1011.	0.8	5
84	Cross characteristic representations of odd characteristic symplectic groups and unitary groups. Journal of Algebra, 2006, 299, 443-446.	0.7	4
85	The direct product theorem for profinite groups. Journal of Group Theory, 2006, 9, .	0.2	4
86	Nonisomorphic curves that become isomorphic over extensions of coprime degrees. Journal of Algebra, 2008, 320, 2526-2558.	0.7	4
87	FROBENIUS GROUPS AS MONODROMY GROUPS. Journal of the Australian Mathematical Society, 2008, 85, 191-196.	0.4	4
88	Globally irreducible Weyl modules. Journal of Algebra, 2017, 477, 69-87.	0.7	4
89	Conjugacy classes, characters and products of elements. Mathematische Nachrichten, 2019, 292, 1315-1320.	0.8	4
90	Generation of the lower central series. Glasgow Mathematical Journal, 1982, 23, 15-20.	0.3	3

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91	The genus of a permutation group. , 0, , 351-363.		3
92	Bass units as free factors in integral group rings of simple groups. Journal of Algebra, 2014, 404, 100-123.	0.7	3
93	Sectional rank and cohomology. Journal of Algebra, 2020, 558, 434-452.	0.7	3
94	GENERICALLY FREE REPRESENTATIONS III: EXTREMELY BAD CHARACTERISTIC. Transformation Groups, 2020, 25, 819-841.	0.7	3
95	GENERICALLY FREE REPRESENTATIONS II: IRREDUCIBLE REPRESENTATIONS. Transformation Groups, 2020, 25, 793-817.	0.7	3
96	Conjugacy classes of derangements in finite transitive groups. Proceedings of the Steklov Institute of Mathematics, 2016, 292, 112-117.	0.3	2
97	On isometry groups of self-adjoint traceless and skew-symmetric matrices. Linear Algebra and Its Applications, 2018, 541, 211-220.	0.9	2
98	On the generalized Fitting height and insoluble length of finite groups. Bulletin of the London Mathematical Society, 2020, 52, 924-931.	0.8	2
99	Zero-one generation laws for finite simple groups. Proceedings of the American Mathematical Society, 2019, 147, 2331-2347.	0.8	2
100	Generation of the lower central series II. Glasgow Mathematical Journal, 1984, 25, 193-201.	0.3	1
101	Modules under ground ring extension. Lecture Notes in Mathematics, 1985, , 150-156.	0.2	1
102	On the non-coprime<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:mi>k</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mi>G</mml:mi><mml:mi>V</mml:mi><mml:mo) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 292 Td (stret	0.7	1
103	The Work of John Griggs Thompson: A Survey. The Abel Prize, 2014, , 55-86.	0.1	0
104	Simple Lie groups stabilizing G-invariant norms. Linear Algebra and Its Applications, 2021, 609, 308-316.	0.9	0
105	Globally Irreducible Weyl Modules for Quantum Groups. Springer Proceedings in Mathematics and Statistics, 2018, , 313-326.	0.2	0