Antonio Giambruno

List of Publications by Year
in descending order

117 papers	2,365 citations	236925 25 h-index	243625 44 g-index
121 all docs	121 docs citations	121 times ranked	146 citing authors

#	ARTICLE	IF	CITATIONS
1	Exponential Codimension Growth of PI Algebras: An Exact Estimate. Advances in Mathematics, 1999, 142, 221-243.	1.1	196
2	On Codimension Growth of Finitely Generated Associative Algebras. Advances in Mathematics, 1998, 140, 145-155.	1.1	167
3	Wreath products and P.I. algebras. Journal of Pure and Applied Algebra, 1985, 35, 133-149.	0.6	96
4	Cocharacters, Codimensions and Hilbert Series of the Polynomial Identities for 2 Ã— 2 Matrices with Involution. Canadian Journal of Mathematics, 1994, 46, 718-733.	0.6	71
5	Codimensions of algebras and growth functions. Advances in Mathematics, 2008, 217, 1027-1052.	1.1	61
6	Minimal varieties of algebras of exponential growth. Advances in Mathematics, 2003, 174, 310-323.	1.1	54
7	Group identities on units of rings. Archiv Der Mathematik, 1994, 63, 291-296.	0.5	53
8	Group algebras whose units satisfy a group identity. Proceedings of the American Mathematical Society, 1997, 125, 629-634.	0.8	52
9	Graded polynomial identities and codimensions: Computing the exponential growth. Advances in Mathematics, 2010, 225, 859-881.	1.1	47
10	Lie nilpotence of group rings. Communications in Algebra, 1993, 21, 4253-4261.	0.6	46
11	Codimension growth and minimal superalgebras. Transactions of the American Mathematical Society, 2003, 355, 5091-5117.	0.9	44
12	POLYNOMIAL IDENTITIES ON SUPERALGEBRAS AND ALMOST POLYNOMIAL GROWTH. Communications in Algebra, 2001, 29, 3787-3800.	0.6	43
13	Derivations with nilpotent values. Rendiconti Del Circolo Matematico Di Palermo, 1981, 30, 199-206.	1.3	39
14	On the identities of the Grassmann algebras in characteristicp>0. Israel Journal of Mathematics, 2001, 122, 305-316.	0.8	39
15	Multialternating graded polynomials and growth of polynomial identities. Proceedings of the American Mathematical Society, 2013, 141, 3055-3065.	0.8	39
16	Algebras with intermediate growth of the codimensions. Advances in Applied Mathematics, 2006, 37, 360-377.	0.7	37
17	Group-graded algebras with polynomial identity. Israel Journal of Mathematics, 1998, 104, 145-155.	0.8	36
18	Symmetric units and group identities. Manuscripta Mathematica, 1998, 96, 443-461.	0.6	33

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19	Finite-dimensional non-associative algebras and codimension growth. Advances in Applied Mathematics, 2011, 47, 125-139.	0.7	32
20	Varieties of Algebras with Superinvolution of Almost Polynomial Growth. Algebras and Representation Theory, 2016, 19, 599-611.	0.7	32
21	G-identities on associative algebras. Proceedings of the American Mathematical Society, 1999, 127, 63-69.	0.8	31
22	Simple and semisimple Lie algebras and codimension growth. Transactions of the American Mathematical Society, 1999, 352, 1935-1946.	0.9	30
23	POLYNOMIAL GROWTH OF THE*-CODIMENSIONS AND YOUNG DIAGRAMS. Communications in Algebra, 2001, 29, 277-284.	0.6	28
24	Involution Codimensions of Finite Dimensional Algebras and Exponential Growth. Journal of Algebra, 1999, 222, 471-484.	0.7	27
25	Group Identities on Units of Group Algebras. Journal of Algebra, 2000, 226, 488-504.	0.7	27
26	Polynomial identities on superalgebras and exponential growth. Journal of Algebra, 2003, 269, 422-438.	0.7	27
27	Codimension growth of special simple Jordan algebras. Transactions of the American Mathematical Society, 2009, 362, 3107-3123.	0.9	27
28	Identities of *-superalgebras and almost polynomial growth. Linear and Multilinear Algebra, 2016, 64, 484-501.	1.0	27
29	Lie properties of symmetric elements in group rings. Journal of Algebra, 2009, 321, 890-902.	0.7	26
30	A characterization of algebras with polynomial growth of the codimensions. Proceedings of the American Mathematical Society, 2000, 129, 59-67.	0.8	24
31	PI-algebras with slow codimension growth. Journal of Algebra, 2005, 284, 371-391.	0.7	24
32	Matrix algebras of polynomial codimension growth. Israel Journal of Mathematics, 2007, 158, 367-378.	0.8	24
33	On codimension growth of finite-dimensional Lie superalgebras. Journal of the London Mathematical Society, 2012, 85, 534-548.	1.0	24
34	Asymptotics for the standard and the Capelli identities. Israel Journal of Mathematics, 2003, 135, 125-145.	0.8	23
35	Polynomial identities with involution, superinvolutions and the Grassmann envelope. Proceedings of the American Mathematical Society, 2017, 145, 1843-1857.	0.8	23
36	Group Actions and Asymptotic Behavior of Graded Polynomial Identities. Journal of the London Mathematical Society, 2002, 66, 295-312.	1.0	22

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37	Unitary units and skew elements in group algebras. Manuscripta Mathematica, 2003, 111, 195-209.	0.6	21
38	Star-polynomial identities: Computing the exponential growth of the codimensions. Journal of Algebra, 2017, 469, 302-322.	0.7	21
39	Superalgebras with Involution or Superinvolution and Almost Polynomial Growth of the Codimensions. Algebras and Representation Theory, 2019, 22, 961-976.	0.7	21
40	Identities of sums of commutative subalgebras. Rendiconti Del Circolo Matematico Di Palermo, 1994, 43, 250-258.	1.3	18
41	Growth of polynomial identities: is the sequence of codimensions eventually non-decreasing?. Bulletin of the London Mathematical Society, 2014, 46, 771-778.	0.8	16
42	Minimal varieties of algebras of exponential growth. Electronic Research Announcements in Mathematical Sciences, 2000, 6, 40-44.	0.7	15
43	Polynomial identities on superalgebras: Classifying linear growth. Journal of Pure and Applied Algebra, 2006, 207, 215-240.	0.6	14
44	Proper identities, Lie identities and exponential codimension growth. Journal of Algebra, 2008, 320, 1933-1962.	0.7	13
45	Group identities on symmetric units. Journal of Algebra, 2009, 322, 2801-2815.	0.7	13
46	Star-group identities and groups of units. Archiv Der Mathematik, 2010, 95, 501-508.	0.5	13
47	On a polynomial identity for n Ã— n matrices. Journal of Algebra, 1989, 126, 451-453.	0.7	12
48	On âˆ—-polynomial identities for n Ã— n matrices. Journal of Algebra, 1990, 133, 433-438.	0.7	12
49	On the Codimension Growth of Finite-Dimensional Lie Algebras. Journal of Algebra, 1999, 220, 466-474.	0.7	12
50	Classifying the Minimal Varieties of Polynomial Growth. Canadian Journal of Mathematics, 2014, 66, 625-640.	0.6	12
51	On rings which are sums of two PI-subrings: a combinatorial approach. Pacific Journal of Mathematics, 2003, 209, 17-31.	0.5	12
52	Central Idempotents and Units in Rational Group Algebras of Alternating Groups. International Journal of Algebra and Computation, 1998, 08, 467-477.	0.5	11
53	Graded polynomial identities and Specht property of the Lie algebrasl2. Journal of Algebra, 2013, 389, 6-22.	0.7	11
54	Standard polynomials and matrices with superinvolutions. Linear Algebra and Its Applications, 2016, 504, 272-291.	0.9	11

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55	Algebraic conditions on rings with involution. Journal of Algebra, 1978, 50, 190-212.	0.7	10
56	Generators of Large Subgroups of Units of Integral Group Rings of Nilpotent Groups. Journal of Algebra, 1995, 174, 150-156.	0.7	10
57	Graded polynomial identities and exponential growth. Journal Fur Die Reine Und Angewandte Mathematik, 2011, 2011, .	0.9	10
58	Differential identities, 2×2 upper triangular matrices and varieties of almost polynomial growth. Journal of Pure and Applied Algebra, 2019, 223, 1710-1727.	0.6	10
59	Codimension growth of two-dimensional non-associative algebras. Proceedings of the American Mathematical Society, 2007, 135, 3405-3416.	0.8	9
60	On minimal $*$-identities of matrices*. Linear and Multilinear Algebra, 1995, 39, 309-323.	1.0	8
61	Involution codimensions and trace codimensions of matrices are asymptotically equal. Israel Journal of Mathematics, 1996, 96, 49-62.	0.8	8
62	ON THE COLENGTH OF A VARIETY OF LIE ALGEBRAS. International Journal of Algebra and Computation, 1999, 09, 483-491.	0.5	8
63	Poisson identities of enveloping algebras. Archiv Der Mathematik, 2006, 87, 505-515.	0.5	8
64	Group graded algebras and multiplicities bounded by a constant. Journal of Pure and Applied Algebra, 2013, 217, 259-268.	0.6	8
65	Automorphisms of the Integral Group Ring of the Wreath Product of a p-Group with S_n. Rocky Mountain Journal of Mathematics, 1992, 22, 1303.	0.4	7
66	Multialternating Jordan polynomials and codimension growth of matrix algebras. Linear Algebra and Its Applications, 2007, 422, 372-379.	0.9	7
67	Group Gradings on Associative Algebras with Involution. Canadian Mathematical Bulletin, 2008, 51, 182-194.	0.5	7
68	Group algebras of torsion groups and Lie nilpotence. Journal of Group Theory, 2010, 13, .	0.2	7
69	Central polynomials and growth functions. Israel Journal of Mathematics, 2018, 226, 15-28.	0.8	7
70	Derivations with invertible values in rings with involution. Pacific Journal of Mathematics, 1986, 123, 47-54.	0.5	7
71	Automorphisms of the integral group ring of the hyperoctahedral group. Communications in Algebra, 1990, 18, 1989-2005.	0.6	6
72	A Note on Derivations of Group Rings. Canadian Mathematical Bulletin, 1995, 38, 434-437.	0.5	6

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73	Asymptotics for the multiplicities in the cocharacters of some PI-algebras. Proceedings of the American Mathematical Society, 2003, 132, 669-679.	0.8	6
74	Polynomial Identities of Algebras of Small Dimension. Communications in Algebra, 2009, 37, 1934-1948.	0.6	6
75	Super-cocharacters, star-cocharacters and multiplicities bounded by one. Manuscripta Mathematica, 2009, 128, 483-504.	0.6	6
76	Anomalies on codimension growth of algebras. Forum Mathematicum, 2016, 28, .	0.7	5
77	Polynomial codimension growth and the Specht problem. Journal of Algebra, 2017, 469, 421-436.	0.7	5
78	Rings with algebraic n-engel elements. Communications in Algebra, 1994, 22, 1685-1701.	0.6	4
79	Central polynomials and matrix invariants. Israel Journal of Mathematics, 1996, 96, 281-297.	0.8	4
80	Lie, Jordan and proper codimensions of associative algebras. Rendiconti Del Circolo Matematico Di Palermo, 2008, 57, 161-171.	1.3	4
81	Polynomial growth of the codimensions: a characterization. Proceedings of the American Mathematical Society, 2010, 138, 853-853.	0.8	4
82	Minimal varieties of graded Lie algebras of exponential growth and the special Lie algebra. Journal of Pure and Applied Algebra, 2014, 218, 1517-1527.	0.6	4
83	Central polynomials of associative algebras and their growth. Proceedings of the American Mathematical Society, 2018, 147, 909-919.	0.8	4
84	Polynomial identities and PI-algebras. Mathematical Surveys, 2005, , 1-41.	0.0	4
85	Star-fundamental algebras: polynomial identities and asymptotics. Transactions of the American Mathematical Society, 2020, 373, 7869-7899.	0.9	4
86	Some generalizations of the center of a ring. Rendiconti Del Circolo Matematico Di Palermo, 1978, 27, 270-282.	1.3	3
87	Non-integrality of the PI-exponent of special Lie algebras. Advances in Applied Mathematics, 2013, 51, 619-634.	0.7	3
88	Codimensions of star-algebras and low exponential growth. Israel Journal of Mathematics, 2020, 239, 1-20.	0.8	3
89	A commutativity theorem for rings with derivations. Pacific Journal of Mathematics, 1982, 102, 41-45.	0.5	3
90	Symmetric identities in graded algebras. Archiv Der Mathematik, 1997, 69, 461-464.	0.5	2

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91	Asymptotic growth of codimensions of identities of associative algebras. Moscow University Mathematics Bulletin, 2014, 69, 125-127.	0.2	2
92	Degrees of irreducible characters of the symmetric group and exponential growth. Proceedings of the American Mathematical Society, 2015, 144, 943-953.	0.8	2
93	Star-group identities on units of group algebras: The non-torsion case. Forum Mathematicum, 2018, 30, 213-225.	0.7	2
94	Cocharacters of group graded algebras and multiplicities bounded by one. Linear and Multilinear Algebra, 2018, 66, 1709-1715.	1.0	2
95	Codimension growth and graded identities. , 0, , .		1
96	Asymptotics of the codimension growth functions of the standard identity and the Capelli identities. Russian Mathematical Surveys, 2002, 57, 1222-1223.	0.6	1
97	Free groups and involutions in the unit group of a group algebra. Archiv Der Mathematik, 2005, 84, 205-210.	0.5	1
98	Central Units, Class Sums and Characters of the Symmetric Group. Communications in Algebra, 2010, 38, 3889-3896.	0.6	1
99	Standard polynomials are characterized by their degree and exponent. Journal of Algebra, 2011, 335, 74-82.	0.7	1
100	Group algebras and Lie nilpotence. Journal of Algebra, 2013, 373, 276-283.	0.7	1
101	Zariski Closed Algebras in Varieties of Universal Algebra. Algebras and Representation Theory, 2014, 17, 1771-1783.	0.7	1
102	Polynomial identities and algebraic combinatorics on words. Sao Paulo Journal of Mathematical Sciences, 2016, 10, 219-227.	0.4	1
103	Sturmian words and overexponential codimension growth. Advances in Applied Mathematics, 2018, 95, 53-64.	0.7	1
104	Non integral exponential growth of central polynomials. Archiv Der Mathematik, 2019, 112, 149-160.	0.5	1
105	A characterization of fundamental algebras through S-characters. Journal of Algebra, 2020, 541, 51-60.	0.7	1
106	Understanding star-fundamental algebras. Proceedings of the American Mathematical Society, 2021, 149, 3221-3233.	0.8	1
107	On the Symmetric Hypercenter of a Ring. Canadian Journal of Mathematics, 1984, 36, 421-435.	0.6	0
108	F-algebraic extensions of rings. Archiv Der Mathematik, 1984, 43, 124-131.	0.5	0

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109	On permutations of class sums of alternating groups. Communications in Algebra, 1997, 25, 2327-2331.	0.6	0
110	Cocharacters of Bilinear Mappings and Graded Matrices. Algebras and Representation Theory, 2013, 16, 1621-1646.	0.7	0
111	Codimension growth of central polynomials of Lie algebras. Forum Mathematicum, 2020, 32, 201-206.	0.7	0
112	A combinatorial approach to the theory of Pi-algebras and exponential growth. , 2001, , 493-511.		0
113	Explicit decompositions of the group algebras FSn and FAn. , 2003, , .		0
114	Group actions, codimensions and exponential behaviour. , 2003, , .		0
115	On algebras and superalgebras with linear codimension growth. Lecture Notes in Pure and Applied Mathematics, 2006, , 173-182.	0.1	0
116	Central Polynomials of Algebras and Their Growth. Springer INdAM Series, 2021, , 195-209.	0.5	0
117	Superalgebras: Polynomial identities and asymptotics. Journal of Algebra, 2022, 604, 614-635.	0.7	0