Andrew J Granville

List of Publications by Year
in descending order

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88 papers	1,729 citations	331670 21 h-index	315739 38 g-index
89 all docs	89 docs citations	89 times ranked	424 citing authors

#	Article	IF	Citations
1	Large deviations of sums of random variables. Lithuanian Mathematical Journal, 2021, 61, 345-372.	0.4	0
2	A tight structure theorem for sumsets. Proceedings of the American Mathematical Society, 2021, 149, 4073-4082.	0.8	5
3	The Frobenius postage stamp problem, and beyond. Acta Mathematica Hungarica, 2020, 161, 700-718.	0.5	8
4	Beyond the LSD method for the partial sums of multiplicative functions. Ramanujan Journal, 2019, 49, 287-319.	0.7	41
5	Bombieri-Vinogradov for multiplicative functions, and beyond the x1/2-barrier. Advances in Mathematics, 2019, 350, 304-358.	1.1	6
6	Natural exact covering systems and the reversion of the MÃ¶bius series. Ramanujan Journal, 2019, 50, 211-235.	0.7	2
7	A new proof of HalÃ¡szâ€™s theorem, and its consequences. Compositio Mathematica, 2019, 155, 126-163.	0.8	14
8	WHEN DOES THE BOMBIERIâ€“VINOGRADOV THEOREM HOLD FOR A GIVEN MULTIPLICATIVE FUNCTION?. Forum of Mathematics, Sigma, 2018, 6, .	0.7	5
9	The frequency and the structure of large character sums. Journal of the European Mathematical Society, 2018, 20, 1759-1818.	1.4	10
10	A more intuitive proof of a sharp version of HalÃ¡szâ€™s theorem. Proceedings of the American Mathematical Society, 2018, 146, 4099-4104.	0.8	7
11	Using Dynamical Systems to Construct Infinitely Many Primes. American Mathematical Monthly, 2018, 125, 483-496.	0.3	5
12	Planck-Scale Mass Equidistribution of Toral Laplace Eigenfunctions. Communications in Mathematical Physics, 2017, 355, 767-802.	2.2	17
13	Squares in Arithmetic Progressions and Infinitely Many Primes. American Mathematical Monthly, 2017, 124, 951.	0.3	5
14	SMOOTHâ€SUPPORTED MULTIPLICATIVE FUNCTIONS IN ARITHMETIC PROGRESSIONS BEYOND THE â€BARRIER. Mathematika, 2017, 63, 895-918.	0.5	6
15	BIG BIASES AMONGST PRODUCTS OF TWO PRIMES. Mathematika, 2016, 62, 502-507.	0.5	10
16	Primes in intervals of bounded length. Bulletin of the American Mathematical Society, 2015, 52, 171-222.	1.5	60
17	Mean values of multiplicative functions over function fields. Research in Number Theory, 2015, 1, 1.	0.4	40
18	GAPS BETWEEN FRACTIONAL PARTS, AND ADDITIVE COMBINATORICS. Quarterly Journal of Mathematics, 2015, , hav012.	0.8	1

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19	DensitÃ© des friables. Bulletin De La Societe Mathematique De France, 2014, 142, 303-348.	0.2	3
20	Multiplicative functions in arithmetic progressions. Annales Mathematiques Du Quebec, 2013, 37, 3-30.	0.2	15
21	Zeta functions for ideal classes in real quadratic fields, at<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:mi>s</mml:mi><mml:mo>=</mml:mo><mml:mn>0</mml:mn></mml:math>. Journal of Number Theory, 2012, 132, 1807-1829.	0.4	4
22	The distribution of the zeros of random trigonometric polynomials. American Journal of Mathematics, 2011, 133, 295-357.	1.1	36
23	Different Approaches to the Distribution of Primes. Milan Journal of Mathematics, 2010, 78, 65-84.	1.1	7
24	The number of sumsets in a finite field. Bulletin of the London Mathematical Society, 2010, 42, 784-794.	0.8	10
25	Close Lattice Points on Circles. Canadian Journal of Mathematics, 2009, 61, 1214-1238.	0.6	5
26	Visibility in the plane. Journal of Number Theory, 2009, 129, 2335-2345.	0.4	7
27	Pretentiousness in analytic number theory. Journal De Theorie Des Nombres De Bordeaux, 2009, 21, 159-173.	0.1	5
28	The number of possibilities for random dating. Journal of Combinatorial Theory - Series A, 2008, 115, 1265-1271.	0.8	0
29	Prime Number Patterns. American Mathematical Monthly, 2008, 115, 279-296.	0.3	3
30	Pretentious multiplicative functions and an inequality for the zeta-function. CRM Proceedings & Lecture Notes, 2008, , 191-197.	0.1	50
31	Lattice points on circles, squares in arithmetic progressions and sumsets of squares. CRM Proceedings & Lecture Notes, 2007, , 241-262.	0.1	35
32	Aurifeuillian factorization. Mathematics of Computation, 2006, 75, 497-508.	2.1	4
33	Estimates for representation numbers of quadratic forms. Duke Mathematical Journal, 2006, 135, 261.	1.5	17
34	Large character sums: Pretentious characters and the PÃ³lya-Vinogradov theorem. Journal of the American Mathematical Society, 2006, 20, 357-384.	3.9	114
35	Prime Number Races. American Mathematical Monthly, 2006, 113, 1-33.	0.3	46
36	Residue races. Ramanujan Journal, 2006, 11, 67-94.	0.7	1

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37	Prime Number Races. American Mathematical Monthly, 2006, 113, 1.	0.3	59
38	On the distribution of rational functions along a curve over <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/co	0.4	21
39	The distribution of values of L(1, Ï‡ d). Geometric and Functional Analysis, 2003, 13, 992-1028.	1.8	95
40	Decay of Mean Values of Multiplicative Functions. Canadian Journal of Mathematics, 2003, 55, 1191-1230.	0.6	32
41	The Number of Fields Generated by the Square Root of Values of a Given Polynomial. Canadian Mathematical Bulletin, 2003, 46, 71-79.	0.5	13
42	Unit Fractions and the Class Number of a Cyclotomic Field. Journal of the London Mathematical Society, 2002, 66, 579-591.	1.0	1
43	On the Residues of Binomial Coefficients and Their Products Modulo Prime Powers. Acta Mathematica Sinica, English Series, 2002, 18, 277-288.	0.6	8
44	More Points Than Expected on Curves over Finite Field Extensions. Finite Fields and Their Applications, 2001, 7, 70-91.	1.0	18
45	The Spectrum of Multiplicative Functions. Annals of Mathematics, 2001, 153, 407.	4.2	32
46	ABC implies no "Siegel zeros" for L -functions of characters with negative discriminant. Inventiones Mathematicae, 2000, 139, 509-523.	2.5	34
47	An Upper Bound on the Least Inert Prime in a Real Quadratic Field. Canadian Journal of Mathematics, 2000, 52, 369-380.	0.6	7
48	Rabinowitsch revisited. Acta Arithmetica, 2000, 96, 139-153.	0.4	4
49	Zeros of Fekete polynomials. Annales De L'Institut Fourier, 2000, 50, 865-889.	0.6	29
50	The Set of Differences of a Given Set. American Mathematical Monthly, 1999, 106, 338-344.	0.3	4
51	Borwein and Bradley's ApÃ©ry-Like Formulae for Î¶(4n + 3). Experimental Mathematics, 1999, 8, 197-203.	0.7	26
52	Notes on Fermat's Last Theorem.. American Mathematical Monthly, 1999, 106, 177.	0.3	0
53	On the scarcity of powerful binomial coefficients. Mathematika, 1999, 46, 397-410.	0.5	2
54	A Binary Additive Problem of ErdÃ¶s and the Order of 2 mod p2. Ramanujan Journal, 1998, 2, 283-298.	0.7	9

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55	International team shows that primes can be found in surprising places. Resonance, 1998, 3, 71-72.	0.3	0
56	Correction to: Zaphod Beeblebrox's Brain and the Fifty-Ninth Row of Pascal's Triangle. American Mathematical Monthly, 1997, 104, 848-851.	0.3	2
57	Primes at a (Somewhat Lengthy) Glance. American Mathematical Monthly, 1997, 104, 943-945.	0.3	3
58	Explicit bounds on exponential sums and the scarcity of squarefree binomial coefficients. Mathematika, 1996, 43, 73-107.	0.5	50
59	Defect zero blocks for finite simple groups. Transactions of the American Mathematical Society, 1996, 348, 331-347.	0.9	141
60	Values of Bernoulli polynomials. Pacific Journal of Mathematics, 1996, 172, 117-137.	0.5	19
61	Harald CramÃ©r and the distribution of prime numbers. Scandinavian Actuarial Journal, 1995, 1995, 12-28.	1.7	98
62	The World's Most Famous Math Problem (The Proof of Fermat's Last Theorem and Other Mathematical) Tj ETQq0 0 0 rgBT /Overlock 10	0.3	2
63	On the Equations zm = F (x, y) and Axp + Byq = Czr. Bulletin of the London Mathematical Society, 1995, 27, 513-543.	0.8	124
64	10195. American Mathematical Monthly, 1994, 101, 277.	0.3	0
65	On sparse languages L such that LL = Î£. Discrete Applied Mathematics, 1994, 52, 275-285.	0.9	4
66	Integers, without large prime factors, in arithmetic progressions, I. Acta Mathematica, 1993, 170, 255-273.	3.9	23
67	An upper bound in Goldbachâ€™s problem. Mathematics of Computation, 1993, 61, 209-209.	2.1	7
68	Squares in arithmetic progressions. Duke Mathematical Journal, 1992, 66, 369.	1.5	18
69	Zaphod Beeblebrox's Brain and the Fifty-ninth Row of Pascal's Triangle. American Mathematical Monthly, 1992, 99, 318-331.	0.3	8
70	Computation of the first factor of the class number of cyclotomic fields. Journal of Number Theory, 1992, 42, 297-312.	0.4	14
71	Subdesigns in Steiner quadruple systems. Journal of Combinatorial Theory - Series A, 1991, 56, 239-270.	0.8	16
72	On a paper of Agur, Fraenkel and Klein. Discrete Mathematics, 1991, 94, 147-151.	0.7	9

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73	The lattice points of ann-dimensional tetrahedron. Aequationes Mathematicae, 1991, 41, 234-241.	0.8	8
74	The Prime Factors of Wendt's Binomial Circulant Determinant. Mathematics of Computation, 1991, 57, 839.	2.1	12
75	Oscillation theorems for primes in arithmetic progressions and for sifting functions. Journal of the American Mathematical Society, 1991, 4, 25-86.	3.9	23
76	Bounding the coefficients of a divisor of a given polynomial. Monatshefte Fur Mathematik, 1990, 109, 271-277.	0.9	9
77	A Note on Sums of Primes. Canadian Mathematical Bulletin, 1990, 33, 452-454.	0.5	4
78	Representing Binomial Coefficients as Sums of Squares. American Mathematical Monthly, 1990, 97, 486.	0.3	3
79	Defining Bernoulli Polynomials in Z/pZ (A Generic Regularity Condition). Proceedings of the American Mathematical Society, 1990, 108, 637.	0.8	0
80	Limitations to the Equi-Distribution of Primes I. Annals of Mathematics, 1989, 129, 363.	4.2	90
81	On complementary decompositions of the complete graph. Graphs and Combinatorics, 1989, 5, 57-61.	0.4	10
82	The first case of Fermatâ€™s last theorem is true for all prime exponents up to 714,591,416,091,389. Transactions of the American Mathematical Society, 1988, 306, 329-359.	0.9	18
83	On Sophie Germain type criteria for Fermat's Last Theorem. Acta Arithmetica, 1988, 50, 265-277.	0.4	3
84	Matrices as the sum of four squares. Linear and Multilinear Algebra, 1987, 20, 247-251.	1.0	2
85	Sophie Germain's theorem for prime pairs p, 6p + 1. Journal of Number Theory, 1987, 27, 63-72.	0.4	1
86	On Krasner's Criteria for the First Case of Fermat's Last Theorem. Manuscripta Mathematica, 1986, 56, 67-70.	0.6	2
87	Refining the conditions on the Fermat quotient. Mathematical Proceedings of the Cambridge Philosophical Society, 1985, 98, 5.	0.4	7
88	Primes in Short Intervals: Heuristics and Calculations. Experimental Mathematics, 0, , 1-27.	0.7	0