Andrew J Granville

List of Publications by Year
in descending order

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	Defect zero blocks for finite simple groups. Transactions of the American Mathematical Society, 1996, 348, 331-347.	0.9	141
2	On the Equations zm = F (x, y) and Axp + Byq = Czr. Bulletin of the London Mathematical Society, 1995, 27, 513-543.	0.8	124
3	Large character sums: Pretentious characters and the PÃ³lya-Vinogradov theorem. Journal of the American Mathematical Society, 2006, 20, 357-384.	3.9	114
4	Harald CramÃ©r and the distribution of prime numbers. Scandinavian Actuarial Journal, 1995, 1995, 12-28.	1.7	98
5	The distribution of values of L(1, Ï‡ d). Geometric and Functional Analysis, 2003, 13, 992-1028.	1.8	95
6	Limitations to the Equi-Distribution of Primes I. Annals of Mathematics, 1989, 129, 363.	4.2	90
7	Primes in intervals of bounded length. Bulletin of the American Mathematical Society, 2015, 52, 171-222.	1.5	60
8	Prime Number Races. American Mathematical Monthly, 2006, 113, 1.	0.3	59
9	Explicit bounds on exponential sums and the scarcity of squarefree binomial coefficients. Mathematika, 1996, 43, 73-107.	0.5	50
10	Pretentious multiplicative functions and an inequality for the zeta-function. CRM Proceedings & Lecture Notes, 2008, , 191-197.	0.1	50
11	Prime Number Races. American Mathematical Monthly, 2006, 113, 1-33.	0.3	46
12	Beyond the LSD method for the partial sums of multiplicative functions. Ramanujan Journal, 2019, 49, 287-319.	0.7	41
13	Mean values of multiplicative functions over function fields. Research in Number Theory, 2015, 1, 1.	0.4	40
14	The distribution of the zeros of random trigonometric polynomials. American Journal of Mathematics, 2011, 133, 295-357.	1.1	36
15	Lattice points on circles, squares in arithmetic progressions and sumsets of squares. CRM Proceedings & Lecture Notes, 2007, , 241-262.	0.1	35
16	ABC implies no "Siegel zeros" for L -functions of characters with negative discriminant. Inventiones Mathematicae, 2000, 139, 509-523.	2.5	34
17	The Spectrum of Multiplicative Functions. Annals of Mathematics, 2001, 153, 407.	4.2	32
18	Decay of Mean Values of Multiplicative Functions. Canadian Journal of Mathematics, 2003, 55, 1191-1230.	0.6	32

#	ARTICLE	IF	CITATIONS
19	Zeros of Fekete polynomials. Annales De L'Institut Fourier, 2000, 50, 865-889.	0.6	29
20	Borwein and Bradley's ApÃ©rv-Like Formulae for Î¶(4n + 3). Experimental Mathematics, 1999, 8, 197-203.	0.7	26
21	Integers, without large prime factors, in arithmetic progressions, I. Acta Mathematica, 1993, 170, 255-273.	3.9	23
22	Oscillation theorems for primes in arithmetic progressions and for sifting functions. Journal of the American Mathematical Society, 1991, 4, 25-86.	3.9	23
23	On the distribution of rational points 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
24	Values of Bernoulli polynomials. Pacific Journal of Mathematics, 1996, 172, 117-137.	0.5	19
25	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
26	Squares in arithmetic progressions. Duke Mathematical Journal, 1992, 66, 369.	1.5	18
27	More Points Than Expected on Curves over Finite Field Extensions. Finite Fields and Their Applications, 2001, 7, 70-91.	1.0	18
28	Estimates for representation numbers of quadratic forms. Duke Mathematical Journal, 2006, 135, 261.	1.5	17
29	Planck-Scale Mass Equidistribution of Toral Laplace Eigenfunctions. Communications in Mathematical Physics, 2017, 355, 767-802.	2.2	17
30	Subdesigns in Steiner quadruple systems. Journal of Combinatorial Theory - Series A, 1991, 56, 239-270.	0.8	16
31	Multiplicative functions in arithmetic progressions. Annales Mathematiques Du Quebec, 2013, 37, 3-30.	0.2	15
32	Computation of the first factor of the class number of cyclotomic fields. Journal of Number Theory, 1992, 42, 297-312.	0.4	14
33	A new proof of HalÃ¡szâ€™s theorem, and its consequences. Compositio Mathematica, 2019, 155, 126-163.	0.8	14
34	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
35	The Prime Factors of Wendt's Binomial Circulant Determinant. Mathematics of Computation, 1991, 57, 839.	2.1	12
36	On complementary decompositions of the complete graph. Graphs and Combinatorics, 1989, 5, 57-61.	0.4	10

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37	The number of sumsets in a finite field. Bulletin of the London Mathematical Society, 2010, 42, 784-794.	0.8	10
38	BIG BIASES AMONGST PRODUCTS OF TWO PRIMES. Mathematika, 2016, 62, 502-507.	0.5	10
39	The frequency and the structure of large character sums. Journal of the European Mathematical Society, 2018, 20, 1759-1818.	1.4	10
40	Bounding the coefficients of a divisor of a given polynomial. Monatshefte Fur Mathematik, 1990, 109, 271-277.	0.9	9
41	On a paper of Agur, Fraenkel and Klein. Discrete Mathematics, 1991, 94, 147-151.	0.7	9
42	A Binary Additive Problem of ErdÃ¶s and the Order of 2 mod p2. Ramanujan Journal, 1998, 2, 283-298.	0.7	9
43	The lattice points of ann-dimensional tetrahedron. Aequationes Mathematicae, 1991, 41, 234-241.	0.8	8
44	Zaphod Beeblebrox's Brain and the Fifty-ninth Row of Pascal's Triangle. American Mathematical Monthly, 1992, 99, 318-331.	0.3	8
45	On the Residues of Binomial Coefficients and Their Products Modulo Prime Powers. Acta Mathematica Sinica, English Series, 2002, 18, 277-288.	0.6	8
46	The Frobenius postage stamp problem, and beyond. Acta Mathematica Hungarica, 2020, 161, 700-718.	0.5	8
47	Refining the conditions on the Fermat quotient. Mathematical Proceedings of the Cambridge Philosophical Society, 1985, 98, 5.	0.4	7
48	An Upper Bound on the Least Inert Prime in a Real Quadratic Field. Canadian Journal of Mathematics, 2000, 52, 369-380.	0.6	7
49	Visibility in the plane. Journal of Number Theory, 2009, 129, 2335-2345.	0.4	7
50	Different Approaches to the Distribution of Primes. Milan Journal of Mathematics, 2010, 78, 65-84.	1.1	7
51	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
52	An upper bound in Goldbachâ€™s problem. Mathematics of Computation, 1993, 61, 209-209.	2.1	7
53	SMOOTHâ€SUPPORTED MULTIPLICATIVE FUNCTIONS IN ARITHMETIC PROGRESSIONS BEYOND THE â€BARRIER. Mathematika, 2017, 63, 895-918.	0.5	6
54	Bombieri-Vinogradov for multiplicative functions, and beyond the x1/2-barrier. Advances in Mathematics, 2019, 350, 304-358.	1.1	6

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55	Close Lattice Points on Circles. Canadian Journal of Mathematics, 2009, 61, 1214-1238.	0.6	5
56	Squares in Arithmetic Progressions and Infinitely Many Primes. American Mathematical Monthly, 2017, 124, 951.	0.3	5
57	WHEN DOES THE BOMBIERIâ€"VINOGRADOV THEOREM HOLD FOR A GIVEN MULTIPLICATIVE FUNCTION?. Forum of Mathematics, Sigma, 2018, 6, .	0.7	5
58	Using Dynamical Systems to Construct Infinitely Many Primes. American Mathematical Monthly, 2018, 125, 483-496.	0.3	5
59	A tight structure theorem for sumsets. Proceedings of the American Mathematical Society, 2021, 149, 4073-4082.	0.8	5
60	Pretentiousness in analytic number theory. Journal De Theorie Des Nombres De Bordeaux, 2009, 21, 159-173.	0.1	5
61	A Note on Sums of Primes. Canadian Mathematical Bulletin, 1990, 33, 452-454.	0.5	4
62	On sparse languages L such that LL = Î£. Discrete Applied Mathematics, 1994, 52, 275-285.	0.9	4
63	The Set of Differences of a Given Set. American Mathematical Monthly, 1999, 106, 338-344.	0.3	4
64	Aurifeuillian factorization. Mathematics of Computation, 2006, 75, 497-508.	2.1	4
65	Zeta functions for ideal classes in real quadratic fields, at $s=0$. Journal of Number Theory, 2012, 132, 1807-1829.	0.4	4
66	Rabinowitsch revisited. Acta Arithmetica, 2000, 96, 139-153.	0.4	4
67	Representing Binomial Coefficients as Sums of Squares. American Mathematical Monthly, 1990, 97, 486.	0.3	3
68	Primes at a (Somewhat Lengthy) Glance. American Mathematical Monthly, 1997, 104, 943-945.	0.3	3
69	Prime Number Patterns. American Mathematical Monthly, 2008, 115, 279-296.	0.3	3
70	Densité des friables. Bulletin De La Societe Mathematique De France, 2014, 142, 303-348.	0.2	3
71	On Sophie Germain type criteria for Fermat's Last Theorem. Acta Arithmetica, 1988, 50, 265-277.	0.4	3
72	On Krasner's Criteria for the First Case of Fermat's Last Theorem. Manuscripta Mathematica, 1986, 56, 67-70.	0.6	2

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73	Matrices as the sum of four squares. Linear and Multilinear Algebra, 1987, 20, 247-251.	1.0	2
74	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
75	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
76	On the scarcity of powerful binomial coefficients. Mathematika, 1999, 46, 397-410.	0.5	2
77	Natural exact covering systems and the reversion of the Möbius series. Ramanujan Journal, 2019, 50, 211-235.	0.7	2
78	Sophie Germain's theorem for prime pairs p, 6p + 1. Journal of Number Theory, 1987, 27, 63-72.	0.4	1
79	Unit Fractions and the Class Number of a Cyclotomic Field. Journal of the London Mathematical Society, 2002, 66, 579-591.	1.0	1
80	Residue races. Ramanujan Journal, 2006, 11, 67-94.	0.7	1
81	GAPS BETWEEN FRACTIONAL PARTS, AND ADDITIVE COMBINATORICS. Quarterly Journal of Mathematics, 2015, , hav012.	0.8	1
82	Defining Bernoulli Polynomials in Z/pZ (A Generic Regularity Condition). Proceedings of the American Mathematical Society, 1990, 108, 637.	0.8	0
83	10195. American Mathematical Monthly, 1994, 101, 277.	0.3	0
84	International team shows that primes can be found in surprising places. Resonance, 1998, 3, 71-72.	0.3	0
85	Notes on Fermat's Last Theorem.. American Mathematical Monthly, 1999, 106, 177.	0.3	0
86	The number of possibilities for random dating. Journal of Combinatorial Theory - Series A, 2008, 115, 1265-1271.	0.8	0
87	Large deviations of sums of random variables. Lithuanian Mathematical Journal, 2021, 61, 345-372.	0.4	0
88	Primes in Short Intervals: Heuristics and Calculations. Experimental Mathematics, 0, , 1-27.	0.7	0