

Terence Tao

List of Publications by Year in descending order

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110
papers

11,246
citations

81900

39
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31849

101
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114
all docs

114
docs citations

114
times ranked

6336
citing authors

#	ARTICLE	IF	CITATIONS
1	An uncountable Moore–Schmidt theorem. <i>Ergodic Theory and Dynamical Systems</i> , 2023, 43, 2376-2403.	0.6	6
2	Optimal Sine and Sawtooth Inequalities. <i>Journal of Fourier Analysis and Applications</i> , 2022, 28, 1.	1.0	1
3	Singmaster’s Conjecture In The Interior Of Pascal’s Triangle. <i>Quarterly Journal of Mathematics</i> , 2022, 73, 1137-1177.	0.8	1
4	Almost all orbits of the Collatz map attain almost bounded values. <i>Forum of Mathematics, Pi</i> , 2022, 10, .	2.0	7
5	Zarankiewicz’s problem for semilinear hypergraphs. <i>Forum of Mathematics, Sigma</i> , 2021, 9, .	0.7	7
6	Eigenvectors from eigenvalues: A survey of a basic identity in linear algebra. <i>Bulletin of the American Mathematical Society</i> , 2021, 59, 31-58.	1.5	49
7	The effective potential of an M -matrix. <i>Journal of Mathematical Physics</i> , 2021, 62, .	1.1	7
8	THE IONESCU–WAINGER MULTIPLIER THEOREM AND THE ADELES. <i>Mathematika</i> , 2021, 67, 647-677.	0.5	7
9	Fourier uniformity of bounded multiplicative functions in short intervals on average. <i>Inventiones Mathematicae</i> , 2020, 220, 1-58.	2.5	9
10	THE DE BRUIJN–NEWMAN CONSTANT IS NON-NEGATIVE. <i>Forum of Mathematics, Pi</i> , 2020, 8, .	2.0	12
11	Analysis and applications: The mathematical work of Elias Stein. <i>Bulletin of the American Mathematical Society</i> , 2020, 57, 523-594.	1.5	5
12	SHARP BOUNDS FOR MULTILINEAR CURVED KEKEYA, RESTRICTION AND OSCILLATORY INTEGRAL ESTIMATES AWAY FROM THE ENDPOINT. <i>Mathematika</i> , 2020, 66, 517-576.	0.5	4
13	Correlations of the von Mangoldt and higher divisor functions I. Long shift ranges. <i>Proceedings of the London Mathematical Society</i> , 2019, 118, 284-350.	1.3	18
14	VALUE PATTERNS OF MULTIPLICATIVE FUNCTIONS AND RELATED SEQUENCES. <i>Forum of Mathematics, Sigma</i> , 2019, 7, .	0.7	1
15	Effective approximation of heat flow evolution of the Riemann ζ function, and a new upper bound for the de Bruijn–Newman constant. <i>Research in Mathematical Sciences</i> , 2019, 6, 1.	1.0	4
16	Correlations of the von Mangoldt and higher divisor functions II: divisor correlations in short ranges. <i>Mathematische Annalen</i> , 2019, 374, 793-840.	1.4	9
17	Long gaps between primes. <i>Journal of the American Mathematical Society</i> , 2018, 31, 65-105.	3.9	64
18	POLYNOMIAL PATTERNS IN THE PRIMES. <i>Forum of Mathematics, Pi</i> , 2018, 6, .	2.0	5

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19	An Inverse Theorem for an Inequality of Kneser. Proceedings of the Steklov Institute of Mathematics, 2018, 303, 193-219.	0.3	7
20	Random matrices: tail bounds for gaps between eigenvalues. Probability Theory and Related Fields, 2017, 167, 777-816.	1.8	21
21	Random matrices have simple spectrum. Combinatorica, 2017, 37, 539-553.	1.2	34
22	AN INTEGRATION APPROACH TO THE TOEPLITZ SQUARE PEG PROBLEM. Forum of Mathematics, Sigma, 2017, 5, .	0.7	13
23	NEW BOUNDS FOR SZEMERÉDI'S THEOREM, III: A POLYLOGARITHMIC BOUND FOR. Mathematika, 2017, 63, 944-1040.	0.5	12
24	On the universality of potential well dynamics. Dynamics of Partial Differential Equations, 2017, 14, 219-238.	0.9	4
25	Sum-free sets in groups: a survey. Electronic Journal of Combinatorics, 2017, 8, 541-552.	0.1	7
26	SIGN PATTERNS OF THE LIOUVILLE AND MÖBIUS FUNCTIONS. Forum of Mathematics, Sigma, 2016, 4, .	0.7	21
27	THE LOGARITHMICALLY AVERAGED CHOWLA AND ELLIOTT CONJECTURES FOR TWO-POINT CORRELATIONS. Forum of Mathematics, Pi, 2016, 4, .	2.0	51
28	Finite Time Blowup for Lagrangian Modifications of the Three-Dimensional Euler Equation. Annals of PDE, 2016, 2, 1.	1.8	15
29	Finite time blowup for high dimensional nonlinear wave systems with bounded smooth nonlinearity. Communications in Partial Differential Equations, 2016, 41, 1204-1229.	2.2	2
30	Cancellation for the multilinear Hilbert transform. Collectanea Mathematica, 2016, 67, 191-206.	0.9	10
31	FAILURE OF THE POINTWISE AND MAXIMAL ERGODIC THEOREMS FOR THE FREE GROUP. Forum of Mathematics, Sigma, 2015, 3, .	0.7	5
32	Effective Limiting Absorption Principles, and Applications. Communications in Mathematical Physics, 2015, 333, 1-95.	2.2	43
33	A multi-dimensional Szemerédi theorem for the primes via a correspondence principle. Israel Journal of Mathematics, 2015, 207, 203-228.	0.8	8
34	Multiple recurrence and convergence results associated to \mathbb{F}_p^ω -actions. Journal D'Analyse Mathématique, 2015, 127, 329-378.	0.8	7
35	Local Universality of Zeroes of Random Polynomials. International Mathematics Research Notices, 2015, 2015, 5053-5139.	1.0	48
36	Multiple Recurrence in Quasirandom Groups. Geometric and Functional Analysis, 2014, 24, 1-48.	1.8	29

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37	A nilpotent Freiman dimension lemma. <i>European Journal of Combinatorics</i> , 2013, 34, 1287-1292.	0.8	20
38	The asymptotic distribution of a single eigenvalue gap of a Wigner matrix. <i>Probability Theory and Related Fields</i> , 2013, 157, 81-106.	1.8	15
39	On Sets Defining Few Ordinary Lines. <i>Discrete and Computational Geometry</i> , 2013, 50, 409-468.	0.6	57
40	Outliers in the spectrum of iid matrices with bounded rank perturbations. <i>Probability Theory and Related Fields</i> , 2013, 155, 231-263.	1.8	93
41	RANDOM MATRICES: SHARP CONCENTRATION OF EIGENVALUES. <i>Random Matrices: Theory and Application</i> , 2013, 02, 1350007.	1.1	20
42	COUNTING THE NUMBER OF SOLUTIONS TO THE ERDŐS-SZÉKES-STRÁUS EQUATION ON UNIT FRACTIONS. <i>Journal of the Australian Mathematical Society</i> , 2013, 94, 50-105.	0.4	20
43	MIXING FOR PROGRESSIONS IN NONABELIAN GROUPS. <i>Forum of Mathematics, Sigma</i> , 2013, 1, .	0.7	5
44	RANDOM MATRICES: UNIVERSAL PROPERTIES OF EIGENVECTORS. <i>Random Matrices: Theory and Application</i> , 2012, 01, 1150001.	1.1	54
45	An inverse theorem for the Gowers $U^{(s+1)}[N]$ -norm. <i>Annals of Mathematics</i> , 2012, 176, 1231-1372.	4.2	149
46	The Littlewood-Offord problem in high dimensions and a conjecture of Frankl and Füredi. <i>Combinatorica</i> , 2012, 32, 363-372.	1.2	12
47	The structure of approximate groups. <i>Publications Mathématiques De L'Institut Des Hautes Etudes Scientifiques</i> , 2012, 116, 115-221.	4.3	121
48	Strongly dense free subgroups of semisimple algebraic groups. <i>Israel Journal of Mathematics</i> , 2012, 192, 347-379.	0.8	22
49	Scale-oblivious metric fragmentation and the nonlinear Dvoretzky theorem. <i>Israel Journal of Mathematics</i> , 2012, 192, 489-504.	0.8	12
50	Large values of the Gowers-Host-Kra seminorms. <i>Journal D'Analyse Mathématique</i> , 2012, 117, 133-186.	0.8	14
51	An Incidence Theorem in Higher Dimensions. <i>Discrete and Computational Geometry</i> , 2012, 48, 255-280.	0.6	74
52	The Inverse Conjecture for the Gowers Norm over Finite Fields in Low Characteristic. <i>Annals of Combinatorics</i> , 2012, 16, 121-188.	0.6	38
53	Approximate Subgroups of Linear Groups. <i>Geometric and Functional Analysis</i> , 2011, 21, 774-819.	1.8	114
54	A REMARK ON PRIMALITY TESTING AND DECIMAL EXPANSIONS. <i>Journal of the Australian Mathematical Society</i> , 2011, 91, 405-413.	0.4	25

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55	AN INVERSE THEOREM FOR THE GOWERS U_4 -NORM. Glasgow Mathematical Journal, 2011, 53, 1-50.	0.3	18
56	An Inverse Theorem for the Uniformity Seminorms Associated with the Action of \mathbb{F}^{∞}_p . Geometric and Functional Analysis, 2010, 19, 1539-1596.	1.8	48
57	Random Matrices: the Distribution of the Smallest Singular Values. Geometric and Functional Analysis, 2010, 20, 260-297.	1.8	91
58	A Finitary Version of Gromov's Polynomial Growth Theorem. Geometric and Functional Analysis, 2010, 20, 1502-1547.	1.8	43
59	Random Matrices: Universality of Local Eigenvalue Statistics up to the Edge. Communications in Mathematical Physics, 2010, 298, 549-572.	2.2	165
60	Testability and repair of hereditary hypergraph properties. Random Structures and Algorithms, 2010, 36, 373-463.	1.1	38
61	A sharp inverse Littlewood-Offord theorem. Random Structures and Algorithms, 2010, 37, 525-539.	1.1	30
62	THE KAKEYA SET AND MAXIMAL CONJECTURES FOR ALGEBRAIC VARIETIES OVER FINITE FIELDS. Mathematika, 2010, 56, 1-25.	0.5	35
63	A REMARK ON PARTIAL SUMS INVOLVING THE MÄBIUS FUNCTION. Bulletin of the Australian Mathematical Society, 2010, 81, 343-349.	0.5	17
64	Sumset and Inverse Sumset Theory for Shannon Entropy. Combinatorics Probability and Computing, 2010, 19, 603-639.	1.3	55
65	An equivalence between inverse sumset theorems and inverse conjectures for the U_3 norm. Mathematical Proceedings of the Cambridge Philosophical Society, 2010, 149, 1-19.	0.4	25
66	A quantitative version of the Besicovitch projection theorem via multiscale analysis. Proceedings of the London Mathematical Society, 2009, 98, 559-584.	1.3	13
67	A NOTE ON THE FREIMAN AND BALOG'S SZEMERÉDI-GOWERS THEOREMS IN FINITE FIELDS. Journal of the Australian Mathematical Society, 2009, 86, 61-74.	0.4	11
68	New bounds for Szemerédi's theorem, I: progressions of length 4 in finite field geometries. Proceedings of the London Mathematical Society, 2009, 98, 365-392.	1.3	16
69	Freiman's Theorem in Finite Fields via Extremal Set Theory. Combinatorics Probability and Computing, 2009, 18, 335-355.	1.3	26
70	The Brascamp-Lieb Inequalities: Finiteness, Structure and Extremals. Geometric and Functional Analysis, 2008, 17, 1343-1415.	1.8	135
71	Product set estimates for non-commutative groups. Combinatorica, 2008, 28, 547-594.	1.2	126
72	A priori bounds and weak solutions for the nonlinear Schrödinger equation in Sobolev spaces of negative order. Journal of Functional Analysis, 2008, 254, 368-395.	1.4	43

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73	Minimal-mass blowup solutions of the mass-critical NLS. Forum Mathematicum, 2008, 20, .	0.7	85
74	AN INVERSE THEOREM FOR THE GOWERS $U^3(G)$ NORM. Proceedings of the Edinburgh Mathematical Society, 2008, 51, 73-153.	0.3	125
75	Norm convergence of multiple ergodic averages for commuting transformations. Ergodic Theory and Dynamical Systems, 2008, 28, 657-688.	0.6	122
76	A global compact attractor for high-dimensional defocusing non-linear Schrödinger equations with potential. Dynamics of Partial Differential Equations, 2008, 5, 101-116.	0.9	13
77	GLOBAL REGULARITY FOR A LOGARITHMICALLY SUPERCRITICAL DEFOCUSING NONLINEAR WAVE EQUATION FOR SPHERICALLY SYMMETRIC DATA. Journal of Hyperbolic Differential Equations, 2007, 04, 259-265.	0.5	46
78	Structure and Randomness in Combinatorics. , 2007, , .		14
79	Velocity averaging, kinetic formulations, and regularizing effects in quasi-linear PDEs. Communications on Pure and Applied Mathematics, 2007, 60, 1488-1521.	3.1	48
80	Scattering for the quartic generalised Korteweg-de Vries equation. Journal of Differential Equations, 2007, 232, 623-651.	2.2	52
81	A correspondence principle between (hyper)graph theory and probability theory, and the (hyper)graph removal lemma. Journal D'Analyse Mathématique, 2007, 103, 1-45.	0.8	31
82	Structure and Randomness in Combinatorics. , 2007, , .		2
83	A (concentration-)compact attractor for high-dimensional non-linear Schrödinger equations. Dynamics of Partial Differential Equations, 2007, 4, 1-53.	0.9	43
84	A quantitative formulation of the global regularity problem for the periodic Navier-Stokes equation. Dynamics of Partial Differential Equations, 2007, 4, 293-302.	0.9	10
85	Sharp well-posedness and ill-posedness results for a quadratic non-linear Schrödinger equation. Journal of Functional Analysis, 2006, 233, 228-259.	1.4	122
86	On random $\hat{A}_{\pm 1}$ matrices: Singularity and determinant. Random Structures and Algorithms, 2006, 28, 1-23.	1.1	72
87	A variant of the hypergraph removal lemma. Journal of Combinatorial Theory - Series A, 2006, 113, 1257-1280.	0.8	94
88	The Gaussian primes contain arbitrarily shaped constellations. Journal D'Analyse Mathématique, 2006, 99, 109-176.	0.8	20
89	Stable signal recovery from incomplete and inaccurate measurements. Communications on Pure and Applied Mathematics, 2006, 59, 1207-1223.	3.1	5,372
90	Spacetime bounds for the energy-critical nonlinear wave equation in three spatial dimensions. Dynamics of Partial Differential Equations, 2006, 3, 93-110.	0.9	35

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91	A Strichartz Inequality for the Schrödinger Equation on Nontrapping Asymptotically Conic Manifolds. Communications in Partial Differential Equations, 2005, 30, 157-205.	2.2	28
92	The weak-type (1,1) of Fourier integral operators of order $\leq (n-1)/2$. Journal of the Australian Mathematical Society, 2004, 76, 1-22.	0.4	32
93	GLOBAL WELL-POSEDNESS OF THE BENJAMIN-ONO EQUATION IN $H^1(\mathbb{R})$. Journal of Hyperbolic Differential Equations, 2004, 01, 27-49.	0.5	131
94	A sum-product estimate in finite fields, and applications. Geometric and Functional Analysis, 2004, 14, 27-57.	1.8	310
95	L^p estimates for the biest II. The Fourier case. Mathematische Annalen, 2004, 329, 427.	1.4	35
96	L^p estimates for the biest I. The Walsh case. Mathematische Annalen, 2004, 329, 401.	1.4	23
97	L^p bounds for a maximal dyadic sum operator. Mathematische Zeitschrift, 2004, 246, 321-337.	0.9	19
98	Global Regularity for the Maxwell-Klein-Gordon Equation with Small Critical Sobolev Norm in High Dimensions. Communications in Mathematical Physics, 2004, 251, 377-426.	2.2	39
99	On the asymptotic behavior of large radial data for a focusing non-linear Schrödinger equation. Dynamics of Partial Differential Equations, 2004, 1, 1-47.	0.9	67
100	A sharp bilinear restriction estimate for paraboloids. Geometric and Functional Analysis, 2003, 13, 1359-1384.	1.8	211
101	Local well-posedness of the Yang-Mills equation in the temporal gauge below the energy norm. Journal of Differential Equations, 2003, 189, 366-382.	2.2	41
102	ENDPOINT MAPPING PROPERTIES OF SPHERICAL MAXIMAL OPERATORS. Journal of the Institute of Mathematics of Jussieu, 2003, 2, .	0.7	21
103	Uniform estimates on multi-linear operators with modulation symmetry. Journal D'Analyse Mathématique, 2002, 88, 255-309.	0.8	23
104	New bounds for Kakeya problems. Journal D'Analyse Mathématique, 2002, 87, 231-263.	0.8	37
105	A physical space approach to wave equation bilinear estimates. Journal D'Analyse Mathématique, 2002, 87, 299-336.	0.8	15
106	Uniform estimates on paraproducts. Journal D'Analyse Mathématique, 2002, 87, 369-384.	0.8	8
107	Global Regularity of Wave Maps II. Small Energy in Two Dimensions. Communications in Mathematical Physics, 2001, 224, 443-544.	2.2	125
108	Some light on Littlewood-Paley theory. Mathematische Annalen, 2001, 321, 885-888.	1.4	6

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109	Endpoint bilinear restriction theorems for the cone, and some sharp null form estimates. <i>Mathematische Zeitschrift</i> , 2001, 238, 215-268.	0.9	69
110	Low regularity semi-linear wave equations. <i>Communications in Partial Differential Equations</i> , 1999, 24, 599-629.	2.2	28