

Van Vu

List of Publications by Year in descending order

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60
papers

3,056
citations

172207

29
h-index

155451

55
g-index

60
all docs

60
docs citations

60
times ranked

1348
citing authors

#	ARTICLE	IF	CITATIONS
1	Spectra of random graphs with given expected degrees. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 6313-6318.	3.3	363
2	Random matrices: Universality of local eigenvalue statistics. Acta Mathematica, 2011, 206, 127-204.	1.4	248
3	Random matrices: Universality of ESDs and the circular law. Annals of Probability, 2010, 38, .	0.8	245
4	Random Matrices: Universality of Local Eigenvalue Statistics up to the Edge. Communications in Mathematical Physics, 2010, 298, 549-572.	1.0	165
5	RANDOM MATRICES: THE CIRCULAR LAW. Communications in Contemporary Mathematics, 2008, 10, 261-307.	0.6	163
6	Inverse Littlewood-Offord theorems and the condition number of random discrete matrices. Annals of Mathematics, 2009, 169, 595-632.	2.1	135
7	Eigenvalues of Random Power law Graphs. Annals of Combinatorics, 2003, 7, 21-33.	0.3	112
8	The Spectra of Random Graphs with Given Expected Degrees. Internet Mathematics, 2004, 1, 257-275.	0.7	107
9	On the singularity probability of random Bernoulli matrices. Journal of the American Mathematical Society, 2007, 20, 603-629.	1.9	98
10	Random Matrices: the Distribution of the Smallest Singular Values. Geometric and Functional Analysis, 2010, 20, 260-297.	0.6	91
11	From the Littlewood-Offord problem to the Circular Law: Universality of the spectral distribution of random matrices. Bulletin of the American Mathematical Society, 2009, 46, 377-396.	0.8	87
12	Random covariance matrices: Universality of local statistics of eigenvalues. Annals of Probability, 2012, 40, .	0.8	80
13	Factors in random graphs. Random Structures and Algorithms, 2008, 33, 1-28.	0.6	79
14	On random $\hat{A}\pm 1$ matrices: Singularity and determinant. Random Structures and Algorithms, 2006, 28, 1-23.	0.6	72
15	Random symmetric matrices are almost surely nonsingular. Duke Mathematical Journal, 2006, 135, 395.	0.8	66
16	Bulk universality for Wigner hermitian matrices with subexponential decay. Mathematical Research Letters, 2010, 17, 667-674.	0.2	62
17	Optimal inverse Littlewood-Offord theorems. Advances in Mathematics, 2011, 226, 5298-5319.	0.5	60
18	Smooth analysis of the condition number and the least singular value. Mathematics of Computation, 2010, 79, 2333-2352.	1.1	58

#	ARTICLE	IF	CITATIONS
19	RANDOM MATRICES: UNIVERSAL PROPERTIES OF EIGENVECTORS. Random Matrices: Theory and Application, 2012, 01, 1150001.	0.5	54
20	Local Universality of Zeroes of Random Polynomials. International Mathematics Research Notices, 2015, 2015, 5053-5139.	0.5	48
21	Eigenvectors of random matrices: A survey. Journal of Combinatorial Theory - Series A, 2016, 144, 361-442.	0.5	44
22	Random matrices: Law of the determinant. Annals of Probability, 2014, 42, .	0.8	39
23	A central limit theorem for the determinant of a Wigner matrix. Advances in Mathematics, 2012, 231, 74-101.	0.5	37
24	Random perturbation of low rank matrices: Improving classical bounds. Linear Algebra and Its Applications, 2018, 540, 26-59.	0.4	37
25	Singular vectors under random perturbation. Random Structures and Algorithms, 2011, 39, 526-538.	0.6	35
26	Random weighted projections, random quadratic forms and random eigenvectors. Random Structures and Algorithms, 2015, 47, 792-821.	0.6	34
27	Random matrices have simple spectrum. Combinatorica, 2017, 37, 539-553.	0.6	34
28	A sharp inverse Littlewood-Offord theorem. Random Structures and Algorithms, 2010, 37, 525-539.	0.6	30
29	Finite and infinite arithmetic progressions in sumsets. Annals of Mathematics, 2006, 163, 1-35.	2.1	30
30	John-type theorems for generalized arithmetic progressions and iterated sumsets. Advances in Mathematics, 2008, 219, 428-449.	0.5	27
31	Products of Independent Elliptic Random Matrices. Journal of Statistical Physics, 2015, 160, 89-119.	0.5	26
32	Random Discrete Matrices. Bolyai Society Mathematical Studies, 2008, , 257-280.	0.3	23
33	On the number of real roots of random polynomials. Communications in Contemporary Mathematics, 2016, 18, 1550052.	0.6	22
34	A Simple SVD Algorithm for Finding Hidden Partitions. Combinatorics Probability and Computing, 2018, 27, 124-140.	0.8	22
35	The Wigner-Dyson-Mehta Bulk Universality Conjecture for Wigner Matrices. Electronic Journal of Probability, 2011, 16, .	0.5	22
36	Random matrices: tail bounds for gaps between eigenvalues. Probability Theory and Related Fields, 2017, 167, 777-816.	0.9	21

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37	RANDOM MATRICES: SHARP CONCENTRATION OF EIGENVALUES. Random Matrices: Theory and Application, 2013, 02, 1350007.	0.5	20
38	On the permanent of random Bernoulli matrices. Advances in Mathematics, 2009, 220, 657-669.	0.5	19
39	Roots of random polynomials with coefficients of polynomial growth. Annals of Probability, 2018, 46, .	0.8	19
40	THE SPECTRUM OF RANDOM KERNEL MATRICES: UNIVERSALITY RESULTS FOR ROUGH AND VARYING KERNELS. Random Matrices: Theory and Application, 2013, 02, 1350005.	0.5	17
41	Concentration of Random Determinants and Permanent Estimators. SIAM Journal on Discrete Mathematics, 2009, 23, 1356-1371.	0.4	15
42	On the Rank of Random Sparse Matrices. Combinatorics Probability and Computing, 2010, 19, 321-342.	0.8	12
43	The Littlewood-Offord problem in high dimensions and a conjecture of Frankl and Füredi. Combinatorica, 2012, 32, 363-372.	0.6	12
44	A note on the Central Limit Theorem for the Eigenvalue Counting Function of Wigner Matrices. Electronic Communications in Probability, 2011, 16, .	0.1	10
45	Universality of local eigenvalue statistics in random matrices with external source. Random Matrices: Theory and Application, 2014, 03, 1450005.	0.5	9
46	Real roots of random polynomials: expectation and repulsion. Proceedings of the London Mathematical Society, 2015, 111, 1231-1260.	0.6	8
47	Sum-free sets in groups: a survey. Electronic Journal of Combinatorics, 2017, 8, 541-552.	0.1	7
48	A Structural Approach to Subset-Sum Problems. Bolyai Society Mathematical Studies, 2008, , 525-545.	0.3	6
49	Dictionary Learning With Few Samples and Matrix Concentration. IEEE Transactions on Information Theory, 2016, 62, 1516-1527.	1.5	5
50	Random polynomials: Central limit theorems for the real roots. Duke Mathematical Journal, 2021, 170, .	0.8	5
51	Random Eigenfunctions on Flat Tori: Universality for the Number of Intersections. International Mathematics Research Notices, 2020, 2020, 9933-9973.	0.5	4
52	Central Limit Theorems for the Real Zeros of Weyl Polynomials. American Journal of Mathematics, 2020, 142, 1327-1369.	0.5	3
53	Packing perfect matchings in random hypergraphs. Random Structures and Algorithms, 2018, 52, 367-378.	0.6	2
54	Law of the iterated logarithm for random graphs. Random Structures and Algorithms, 2019, 54, 3-38.	0.6	2

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55	Random matrices: Probability of normality. <i>Advances in Mathematics</i> , 2019, 346, 887-907.	0.5	2
56	Sparse random matrices have simple spectrum. <i>Annales De L'institut Henri Poincare (B) Probability and Statistics</i> , 2020, 56, .	0.7	2
57	Anti-concentration Inequalities for Polynomials. , 2017, , 801-810.		1
58	Smooth Analysis of the Condition Number and the Least Singular Value. <i>Lecture Notes in Computer Science</i> , 2009, , 714-737.	1.0	0
59	On a conjecture of Alon. <i>Journal of Number Theory</i> , 2009, 129, 2801-2807.	0.2	0
60	Random walks with different directions. <i>Probability Theory and Related Fields</i> , 2016, 164, 1071-1078.	0.9	0