Charles Bordenave

List of Publications by Year
in descending order

32 papers	845 citations	430874 18 h-index	501196 28 g-index
32 all docs	32 docs citations	32 times ranked	380 citing authors

#	Article	IF	Citations
1	Around the circular law. Probability Surveys, 2012, 9, .	1.3	136
2	Resolvent of large random graphs. Random Structures and Algorithms, 2010, 37, 332-352.	1.1	68
3	A particle system in interaction with a rapidly varying environment: Mean field limits and applications. Networks and Heterogeneous Media, 2010, 5, 31-62.	1.1	55
4	Performance of random medium access control, an asymptotic approach. , 2008, , .		53
5	Localization and delocalization of eigenvectors for heavy-tailed random matrices. Probability Theory and Related Fields, 2013, 157, 885-953.	1.8	51
6	Circular law theorem for random Markov matrices. Probability Theory and Related Fields, 2012, 152, 751-779.	1.8	43
7	Spectrum of large random reversible Markov chains: Heavy-tailed weights on the complete graph. Annals of Probability, 2011, 39, .	1.8	42
8	Asymptotic Stability Region of Slotted Aloha. IEEE Transactions on Information Theory, 2012, 58, 5841-5855.	2.4	41
9	Spectrum of Non-Hermitian Heavy Tailed Random Matrices. Communications in Mathematical Physics, 2011, 307, 513-560.	2.2	38
10	On the spectrum of sum and product of non-hermitian random matrices. Electronic Communications in Probability, 2011, 16, .	0.4	32
11	Matchings on infinite graphs. Probability Theory and Related Fields, 2013, 157, 183-208.	1.8	30
12	Large deviations of empirical neighborhood distribution in sparse random graphs. Probability Theory and Related Fields, 2015, 163, 149-222.	1.8	29
13	The rank of diluted random graphs. Annals of Probability, 2011, 39, .	1.8	28
14	Random walk on sparse random digraphs. Probability Theory and Related Fields, 2018, 170, 933-960.	1.8	27
15	Eigenvalues of Euclidean random matrices. Random Structures and Algorithms, 2008, 33, 515-532.	1.1	26
16	Spectrum of Markov Generators on Sparse Random Graphs. Communications on Pure and Applied Mathematics, 2014, 67, 621-669.	3.1	21
17	A large deviation principle for Wigner matrices without Gaussian tails. Annals of Probability, 2014, 42, .	1.8	21
18	Outlier Eigenvalues for Deformed I.I.D. Random Matrices. Communications on Pure and Applied Mathematics, 2016, 69, 2131-2194.	3.1	20

#	Article	IF	Citations
19	On the spectral radius of a random matrix: An upper bound without fourth moment. Annals of Probability, 2018, 46, .	1.8	19
20	Cutoff at the â€œentropic timeâ€•for sparse Markov chains. Probability Theory and Related Fields, 2019, 173, 261-292.	1.8	15
21	On Euclidean random matrices in high dimension. Electronic Communications in Probability, 2013, 18, .	0.4	8
22	Delocalization at Small Energy for Heavy-Tailed Random Matrices. Communications in Mathematical Physics, 2017, 354, 115-159.	2.2	8
23	Spectrum of large random Markov chains: Heavy-tailed weights on the oriented complete graph. Random Matrices: Theory and Application, 2017, 06, 1750006.	1.1	6
24	Convergence of the spectral radius of a random matrix through its characteristic polynomial. Probability Theory and Related Fields, 2022, 182, 1163-1181.	1.8	6
25	CUTOFF AT THE ENTROPIC TIME FOR RANDOM WALKS ON COVERED EXPANDER GRAPHS. Journal of the Institute of Mathematics of Jussieu, 0, , 1-46.	0.7	5
26	Dynamic Programming Optimization over Random Data: The Scaling Exponent for Near-Optimal Solutions. SIAM Journal on Computing, 2009, 38, 2382-2410.	1.0	4
27	Near-minimal spanning trees: A scaling exponent in probability models. Annales De L'institut Henri Poincare (B) Probability and Statistics, 2008, 44, .	1.1	4
28	On Quantum Percolation in Finite Regular Graphs. Annales Henri Poincare, 2015, 16, 2465-2497.	1.7	3
29	Noise sensitivity of the top eigenvector of a Wigner matrix. Probability Theory and Related Fields, 2020, 177, 1103-1135.	1.8	2
30	Outlier eigenvalues for non-Hermitian polynomials in independent i.i.d. matrices and deterministic matrices. Electronic Journal of Probability, 2021, 26, .	1.0	2
31	Graphs with prescribed local neighborhoods of their universal coverings. Journal of Combinatorial Theory Series B, 2019, 138, 196-205.	1.0	1
32	Noise sensitivity for the top eigenvector of a sparse random matrix. Electronic Journal of Probability, 2022, 27, .	1.0	1