Richard Arratia

List of Publications by Year
in descending order

28 papers	1,297 citations	687363 13 h-index	526287 27 g-index
29 all docs	29 docs citations	29 times ranked	448 citing authors

#	ARTICLE	IF	CITATIONS
1	Poisson Approximation and the Chen-Stein Method. Statistical Science, 1990, 5, 403.	2.8	260
2	Poisson Process Approximations for the Ewens Sampling Formula. Annals of Applied Probability, 1992, 2, 519.	1.3	103
3	An Extreme Value Theory for Sequence Matching. Annals of Statistics, 1986, 14, 971.	2.6	100
4	The interlace polynomial of a graph. Journal of Combinatorial Theory Series B, 2004, 92, 199-233.	1.0	67
5	An Erdős-Rényi law with shifts. Advances in Mathematics, 1985, 55, 13-23.	1.1	61
6	Limit Theorems for Combinatorial Structures via Discrete Process Approximations. Random Structures and Algorithms, 1992, 3, 321-345.	1.1	61
7	Poisson Process Approximation for Sequence Repeats, and Sequencing by Hybridization. Journal of Computational Biology, 1996, 3, 425-463.	1.6	59
8	Critical Phenomena in Sequence Matching. Annals of Probability, 1985, 13, 1236.	1.8	58
9	A Two-Variable Interlace Polynomial. Combinatorica, 2004, 24, 567-584.	1.2	40
10	On random polynomials over finite fields. Mathematical Proceedings of the Cambridge Philosophical Society, 1993, 114, 347-368.	0.4	32
11	Total Variation Asymptotics for Poisson Process Approximations of Logarithmic Combinatorial Assemblies. Annals of Probability, 1995, 23, 1347.	1.8	27
12	Euler circuits and DNA sequencing by hybridization. Discrete Applied Mathematics, 2000, 104, 63-96.	0.9	25
13	Probabilistic Divide-and-Conquer: A New Exact Simulation Method, With Integer Partitions as an Example. Combinatorics Probability and Computing, 2016, 25, 324-351.	1.3	15
14	Bounded size bias coupling: a Gamma function bound, and universal Dickman-function behavior. Probability Theory and Related Fields, 2015, 162, 411-429.	1.8	12
15	On Poisson–Dirichlet Limits for Random Decomposable Combinatorial Structures. Combinatorics Probability and Computing, 1999, 8, 193-208.	1.3	11
16	Stochastic scrabble: large deviations for sequences with scores. Journal of Applied Probability, 1988, 25, 106-119.	0.7	10
17	A Tale of Three Couplings: Poisson–Dirichlet and GEM Approximations for Random Permutations. Combinatorics Probability and Computing, 2006, 15, 31.	1.3	10
18	The number of components in a logarithmic combinatorial structure. Annals of Applied Probability, 2000, 10, 331.	1.3	6

#	Article	IF	Citations
19	Asymptotic distribution for the birthday problem with multiple coincidences, via an embedding of the collision process. Random Structures and Algorithms, 2016, 48, 480-502.	1.1	6
20	Completely Effective Error Bounds for Stirling Numbers of the First and Second Kinds via Poisson Approximation. Annals of Combinatorics, 2017, 21, 1-24.	0.6	6
21	Simulating the component counts of combinatorial structures. Theoretical Population Biology, 2018, 122, 5-11.	1.1	6
22	The van den Berg–Kesten–Reimer operator and inequality for infinite spaces. Bernoulli, 2018, 24, .	1.3	6
23	Some People Have All the Luck. Mathematics Magazine, 2015, 88, 196-211.	0.1	5
24	On the Singularity of Random Bernoulli Matrices– Novel Integer Partitions and Lower Bound Expansions. Annals of Combinatorics, 2013, 17, 251-274.	0.6	4
25	Review: D. Aldous, Probability Approximations via the Poisson Clumping Heuristic; A. D. Barbour, L. Holst, S. Janson, Poisson Approximation. Annals of Probability, 1993, 21, .	1.8	4
26	Poisson process approximation for repeats in one sequence and its application to sequencing by hybridization. Lecture Notes in Computer Science, 1996, , 209-219.	1.3	1
27	A probabilistic approach to analytic arithmetic on algebraic function fields. Mathematical Proceedings of the Cambridge Philosophical Society, 2005, 139, 1-26.	0.4	1
28	Probabilistic Aspects of Sequence Repeats and Sequencing by Hybridization. Studies in Classification, Data Analysis, and Knowledge Organization, 1997, , 631-641.	0.2	0