

Persi Diaconis

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

107
papers

5,337
citations

35
h-index

72
g-index

113
ext. papers

6,278
ext. citations

1.2
avg, IF

5.77
L-index

#	Paper	IF	Citations
107	Partial Exchangeability for Contingency Tables. <i>Mathematics</i> , 2022 , 10, 442	2.3	0
106	The-Square-and-Add Markov Chain. <i>Mathematical Intelligencer</i> , 2021 , 43, 27-36	0.2	1
105	Permanental generating functions and sequential importance sampling. <i>Advances in Applied Mathematics</i> , 2021 , 126, 101916	0.8	5
104	Discussion of A Gibbs Sampler for a Class of Random Convex Polytopes. <i>Journal of the American Statistical Association</i> , 2021 , 116, 1193-1195	2.8	
103	Randomized sequential importance sampling for estimating the number of perfect matchings in bipartite graphs. <i>Advances in Applied Mathematics</i> , 2021 , 131, 102247	0.8	2
102	Tensor product Markov chains. <i>Journal of Algebra</i> , 2020 , 561, 17-83	0.6	5
101	Speeding up Markov chains with deterministic jumps. <i>Probability Theory and Related Fields</i> , 2020 , 178, 1193-1214	1.4	5
100	Reproducing kernel orthogonal polynomials on the multinomial distribution. <i>Journal of Approximation Theory</i> , 2019 , 242, 1-30	0.9	1
99	The sample size required in importance sampling. <i>Annals of Applied Probability</i> , 2018 , 28,	2	34
98	Bayesian goodness of fit tests: a conversation for David Mumford. <i>Annals of Mathematical Sciences and Applications</i> , 2018 , 3, 287-308	1.3	3
97	A central limit theorem for a new statistic on permutations. <i>Indian Journal of Pure and Applied Mathematics</i> , 2017 , 48, 561-573	0.3	8
96	The Mathematics of the Flip and Horseshoe Shuffles. <i>American Mathematical Monthly</i> , 2016 , 123, 542	0.3	2
95	Estimates on the amplitude of the first Dirichlet eigenvector in discrete frameworks. <i>Science China Mathematics</i> , 2016 , 59, 205-226	0.8	2
94	Central limit theorems for some set partition statistics. <i>Advances in Applied Mathematics</i> , 2015 , 70, 92-105	1.8	6
93	de Finetti Priors using Markov chain Monte Carlo computations. <i>Statistics and Computing</i> , 2015 , 25, 797-808		5
92	An introduction to multivariate Krawtchouk polynomials and their applications. <i>Journal of Statistical Planning and Inference</i> , 2014 , 154, 39-53	0.8	18
91	Convolution powers of complex functions on. <i>Mathematische Nachrichten</i> , 2014 , 287, 1106-1130	0.8	5

90	Carries, Group Theory, and Additive Combinatorics. <i>American Mathematical Monthly</i> , 2014 , 121, 674	0.3	1
89	Unseparated pairs and fixed points in random permutations. <i>Advances in Applied Mathematics</i> , 2014 , 61, 102-124	0.8	1
88	Connections and Extensions: A Discussion of the Paper by Girolami and Byrne. <i>Scandinavian Journal of Statistics</i> , 2014 , 41, 3-7	0.8	3
87	Closed expressions for averages of set partition statistics. <i>Research in Mathematical Sciences</i> , 2014 , 1, 1	1.5	5
86	Hopf algebras and Markov chains: two examples and a theory. <i>Journal of Algebraic Combinatorics</i> , 2014 , 39, 527-585	0.8	7
85	Random doubly stochastic tridiagonal matrices. <i>Random Structures and Algorithms</i> , 2013 , 42, 403-437	0.8	6
84	Interval Graph Limits. <i>Annals of Combinatorics</i> , 2013 , 17, 27-52	0.7	9
83	Note on a partition limit theorem for rank and crank. <i>Bulletin of the London Mathematical Society</i> , 2013 , 45, 551-553	0.9	5
82	Some things we've learned (about Markov chain Monte Carlo). <i>Bernoulli</i> , 2013 , 19,	1.6	11
81	On the spectral analysis of second-order Markov chains. <i>Annales De La Faculté Des Sciences De Toulouse</i> , 2013 , 22, 573-621	0.3	11
80	EXCHANGEABLE PAIRS OF BERNOULLI RANDOM VARIABLES, KRAWTCHOUCK POLYNOMIALS, AND EHRENFEST URNS. <i>Australian and New Zealand Journal of Statistics</i> , 2012 , 54, 81-101	0.7	11
79	A probabilistic interpretation of the Macdonald polynomials. <i>Annals of Probability</i> , 2012 , 40,	1.9	7
78	Gibbs/Metropolis algorithms on a convex polytope. <i>Mathematische Zeitschrift</i> , 2012 , 272, 109-129	0.7	4
77	Foulkes characters, Eulerian idempotents, and an amazing matrix. <i>Journal of Algebraic Combinatorics</i> , 2012 , 36, 425-440	0.8	10
76	Supercharacters, symmetric functions in noncommuting variables, and related Hopf algebras. <i>Advances in Mathematics</i> , 2012 , 229, 2310-2337	1.3	39
75	The Mathematics of Mixing Things Up. <i>Journal of Statistical Physics</i> , 2011 , 144, 445-458	1.5	10
74	Geometric analysis for the metropolis algorithm on Lipschitz domains. <i>Inventiones Mathematicae</i> , 2011 , 185, 239-281	2.2	18
73	A Sequential Importance Sampling Algorithm for Generating Random Graphs with Prescribed Degrees. <i>Internet Mathematics</i> , 2011 , 6, 489-522	0	154

72	On Barycentric Subdivision. <i>Combinatorics Probability and Computing</i> , 2011 , 20, 213-237	0.6	6
71	On adding a list of numbers (and other one-dependent determinantal processes). <i>Bulletin of the American Mathematical Society</i> , 2010 , 47, 639-639	1.3	23
70	Gibbs sampling, conjugate priors and coupling. <i>Sankhya A</i> , 2010 , 72, 136-169	0.6	8
69	Stochastic alternating projections. <i>Illinois Journal of Mathematics</i> , 2010 , 54,	0.9	4
68	Supercharacter formulas for pattern groups. <i>Transactions of the American Mathematical Society</i> , 2009 , 361, 3501-3501	1	26
67	On Times to Quasi-stationarity for Birth and Death Processes. <i>Journal of Theoretical Probability</i> , 2009 , 22, 558-586	0.5	34
66	Micro-local analysis for the Metropolis algorithm. <i>Mathematische Zeitschrift</i> , 2009 , 262, 411-447	0.7	7
65	Carries, shuffling, and symmetric functions. <i>Advances in Applied Mathematics</i> , 2009 , 43, 176-196	0.8	22
64	Carries, Shuffling, and an Amazing Matrix. <i>American Mathematical Monthly</i> , 2009 , 116, 788-803	0.3	16
63	The Markov chain Monte Carlo revolution. <i>Bulletin of the American Mathematical Society</i> , 2008 , 46, 179-205	1.5	123
62	Threshold Graph Limits and Random Threshold Graphs. <i>Internet Mathematics</i> , 2008 , 5, 267-320	0	32
61	Gibbs Sampling, Exponential Families and Orthogonal Polynomials. <i>Statistical Science</i> , 2008 , 23,	2.4	64
60	On fixed points of permutations. <i>Journal of Algebraic Combinatorics</i> , 2008 , 28, 189-218	0.8	14
59	Supercharacters and superclasses for algebra groups. <i>Transactions of the American Mathematical Society</i> , 2007 , 360, 2359-2393	1	98
58	Fastest Mixing Markov Chain on a Path. <i>American Mathematical Monthly</i> , 2006 , 113, 70-74	0.3	21
57	Fastest Mixing Markov Chain on a Path. <i>American Mathematical Monthly</i> , 2006 , 113, 70	0.3	26
56	Markov bases for noncommutative Fourier analysis of ranked data. <i>Journal of Symbolic Computation</i> , 2006 , 41, 182-195	0.8	5
55	Separation cut-offs for birth and death chains. <i>Annals of Applied Probability</i> , 2006 , 16,	2	46

54	Sequential Monte Carlo Methods for Statistical Analysis of Tables. <i>Journal of the American Statistical Association</i> , 2005 , 100, 109-120	2.8	152
53	Analysis of a Bose-Einstein Markov chain. <i>Annales De L'institut Henri Poincare (B) Probability and Statistics</i> , 2005 , 41, 409-418	1.3	2
52	Symmetry Analysis of Reversible Markov Chains. <i>Internet Mathematics</i> , 2005 , 2, 31-71	0	36
51	Exchangeable pairs and Poisson approximation. <i>Probability Surveys</i> , 2005 , 2,	2.2	52
50	Numerical Results for the Metropolis Algorithm. <i>Experimental Mathematics</i> , 2004 , 13, 207-213	0.5	5
49	The Markov moment problem and de Finetti's theorem: Part I. <i>Mathematische Zeitschrift</i> , 2004 , 247, 183-199		11
48	The Markov moment problem and de Finetti's theorem: Part II. <i>Mathematische Zeitschrift</i> , 2004 , 247, 201-212	0.7	15
47	A super-class walk on upper-triangular matrices. <i>Journal of Algebra</i> , 2004 , 278, 739-765	0.6	33
46	Patterns in eigenvalues: the 70th Josiah Willard Gibbs lecture. <i>Bulletin of the American Mathematical Society</i> , 2003 , 40, 155-179	1.3	62
45	New tests of the correspondence between unitary eigenvalues and the zeros of Riemann's zeta function. <i>Journal of Physics A</i> , 2003 , 36, 2883-2906		20
44	Random walks on groups: characters and geometry 2003 , 120-142		8
43	MATHEMATICAL DEVELOPMENTS FROM THE ANALYSIS OF RIFFLE SHUFFLING 2003 , 73-97		21
42	The Asymmetric One-Dimensional Constrained Ising Model: Rigorous Results. <i>Journal of Statistical Physics</i> , 2002 , 107, 945-975	1.5	60
41	Unitary Correlations and the Fejér Kernel. <i>Mathematical Physics Analysis and Geometry</i> , 2002 , 5, 101-123	0.8	18
40	G. H. Hardy and Probability???. <i>Bulletin of the London Mathematical Society</i> , 2002 , 34, 385-402	0.9	8
39	Chutes and Ladders in Markov Chains. <i>Journal of Theoretical Probability</i> , 2001 , 14, 899-926	0.5	7
38	Statistical problems involving permutations with restricted positions. <i>Lecture Notes-monograph Series / Institute of Mathematical Statistics</i> , 2001 , 195-222	0	17
37	Analysis of systematic scan Metropolis algorithms using Iwahori-Hecke algebra techniques.. <i>Michigan Mathematical Journal</i> , 2000 , 48, 157	1	44

36	Bounds for Kac's Master Equation. <i>Communications in Mathematical Physics</i> , 2000 , 209, 729-755	2	34
35	Analysis of a nonreversible Markov chain sampler. <i>Annals of Applied Probability</i> , 2000 , 10, 726	2	119
34	Iterated Random Functions. <i>SIAM Review</i> , 1999 , 41, 45-76	7.4	342
33	Algebraic algorithms for sampling from conditional distributions. <i>Annals of Statistics</i> , 1998 , 26, 363	3.2	264
32	Are there still things to do in Bayesian statistics?. <i>Erkenntnis</i> , 1996 , 45, 145-158	0.5	0
31	On the eigenvalues of random matrices. <i>Journal of Applied Probability</i> , 1994 , 31, 49-62	0.8	141
30	Comparison Techniques for Random Walk on Finite Groups. <i>Annals of Probability</i> , 1993 , 21,	1.9	86
29	Analysis of Top To Random Shuffles. <i>Combinatorics Probability and Computing</i> , 1992 , 1, 135-155	0.6	35
28	Trailing the Dovetail Shuffle to its Lair. <i>Annals of Applied Probability</i> , 1992 , 2, 294	2	136
27	An affine walk on the hypercube. <i>Journal of Computational and Applied Mathematics</i> , 1992 , 41, 215-235	2.4	10
26	Binomial coefficient codes over GF(2). <i>Discrete Mathematics</i> , 1992 , 106-107, 181-188	0.7	2
25	Geometric Bounds for Eigenvalues of Markov Chains. <i>Annals of Applied Probability</i> , 1991 , 1, 36	2	455
24	Closed Form Summation for Classical Distributions: Variations on a Theme of De Moivre. <i>Statistical Science</i> , 1991 , 6, 284	2.4	69
23	Asymptotic analysis of a random walk on a hypercube with many dimensions. <i>Random Structures and Algorithms</i> , 1990 , 1, 51-72	0.8	90
22	Strong Stationary Times Via a New Form of Duality. <i>Annals of Probability</i> , 1990 , 18,	1.9	134
21	A Generalization of Spectral Analysis with Application to Ranked Data. <i>Annals of Statistics</i> , 1989 , 17, 949	3.2	95
20	Fair Dice. <i>American Mathematical Monthly</i> , 1989 , 96, 337-339	0.3	6
19	École d'Été de Probabilités de Saint-Flour XVIII, 1985-87. <i>Lecture Notes in Mathematics</i> , 1988 ,	0.4	59

18	Random Walks Arising in Random Number Generation. <i>Annals of Probability</i> , 1987 , 15, 1148	1.9	35
17	Time to Reach Stationarity in the Bernoulli-Laplace Diffusion Model. <i>SIAM Journal on Mathematical Analysis</i> , 1987 , 18, 208-218	1.7	92
16	Strong uniform times and finite random walks. <i>Advances in Applied Mathematics</i> , 1987 , 8, 69-97	0.8	154
15	Shuffling Cards and Stopping Times. <i>American Mathematical Monthly</i> , 1986 , 93, 333	0.3	143
14	Shuffling Cards and Stopping Times. <i>American Mathematical Monthly</i> , 1986 , 93, 333-348	0.3	186
13	Testing for Independence in a Two-Way Table: New Interpretations of the Chi-Square Statistic. <i>Annals of Statistics</i> , 1985 , 13, 845	3.2	121
12	The mathematics of perfect shuffles. <i>Advances in Applied Mathematics</i> , 1983 , 4, 175-196	0.8	58
11	Updating Subjective Probability. <i>Journal of the American Statistical Association</i> , 1982 , 77, 822-830	2.8	165
10	The Analysis of Sequential Experiments with Feedback to Subjects. <i>Annals of Statistics</i> , 1981 , 9, 3	3.2	19
9	The persistence of cognitive illusions. <i>Behavioral and Brain Sciences</i> , 1981 , 4, 333-334	0.9	32
8	Generating a random permutation with random transpositions. <i>Zeitschrift für Wahrscheinlichkeitstheorie Und Verwandte Gebiete</i> , 1981 , 57, 159-179		252
7	Conjugate Priors for Exponential Families. <i>Annals of Statistics</i> , 1979 , 7, 269	3.2	357
6	On Rounding Percentages. <i>Journal of the American Statistical Association</i> , 1979 , 74, 359-364	2.8	36
5	Probabilizing Fibonacci Numbers ¹⁻¹²		
4	Updating Subjective Probability		46
3	Card guessing with partial feedback. <i>Combinatorics Probability and Computing</i> , 1-20	0.6	2
2	Hahn polynomials and the Burnside process. <i>Ramanujan Journal</i> , 1	0.7	
1	Guessing about Guessing: Practical Strategies for Card Guessing with Feedback. <i>American Mathematical Monthly</i> , 1-16	0.3	0

