Timo Seppäläinen

List of Publications by Year in descending order

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TIMO SEDDÃORÍEN

#	Article	IF	CITATIONS
1	Scaling for a one-dimensional directed polymer with boundary conditions. Annals of Probability, 2012, 40, .	1.8	136
2	Tropical combinatorics and Whittaker functions. Duke Mathematical Journal, 2014, 163, .	1.5	78
3	Existence of Hydrodynamics for the Totally Asymmetric Simple K-Exclusion Process. Annals of Probability, 1999, 27, 361.	1.8	67
4	Cube Root Fluctuations for the Corner Growth Model Associated to the Exclusion Process. Electronic Journal of Probability, 2006, 11, .	1.0	67
5	An almost sure invariance principle for random walks in a space-time random environment. Probability Theory and Related Fields, 2005, 133, 299-314.	1.8	58
6	Geometric RSK correspondence, Whittaker functions and symmetrized random polymers. Inventiones Mathematicae, 2014, 197, 361-416.	2.5	52
7	Entropy, limit theorems, and variational principles for disordered lattice systems. Communications in Mathematical Physics, 1995, 171, 233-277.	2.2	49
8	Large deviations for increasing sequences on the plane. Probability Theory and Related Fields, 1998, 112, 221-244.	1.8	42
9	Quenched Free Energy and Large Deviations for Random Walks in Random Potentials. Communications on Pure and Applied Mathematics, 2013, 66, 202-244.	3.1	41
10	Exact limiting shape for a simplified model of first-passage percolation on the plane. Annals of Probability, 1998, 26, 1232.	1.8	39
11	The Strict-Weak Lattice Polymer. Journal of Statistical Physics, 2015, 160, 1027-1053.	1.2	39
12	A Microscopic Model for the Burgers Equation and Longest Increasing Subsequences. Electronic Journal of Probability, 1996, 1, 1.	1.0	37
13	Order of current variance and diffusivity in the asymmetric simple exclusion process. Annals of Mathematics, 2010, 171, 1237-1265.	4.2	34
14	Stationary cocycles and Busemann functions for the corner growth model. Probability Theory and Related Fields, 2017, 169, 177-222.	1.8	31
15	Quenched point-to-point free energy for random walks in random potentials. Probability Theory and Related Fields, 2014, 158, 711-750.	1.8	30
16	Geodesics and the competition interface for the corner growth model. Probability Theory and Related Fields, 2017, 169, 223-255.	1.8	27
17	Almost sure functional central limit theorem for ballistic random walk in random environment. Annales De L'institut Henri Poincare (B) Probability and Statistics, 2009, 45, .	1.1	25
18	Ratios of partition functions for the log-gamma polymer. Annals of Probability, 2015, 43, .	1.8	25

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19	Variational Formulas and Cocycle solutions for Directed Polymer and Percolation Models. Communications in Mathematical Physics, 2016, 346, 741-779.	2.2	24
20	Hydrodynamic Profiles for the Totally Asymmetric Exclusion Process with a Slow Bond. Journal of Statistical Physics, 2001, 102, 69-96.	1.2	23
21	The Random Average Process and Random Walk in a Space-Time Random Environment in One Dimension. Communications in Mathematical Physics, 2006, 266, 499-545.	2.2	23
22	Increasing sequences of independent points on the planar lattice. Annals of Applied Probability, 1997, 7,	1.3	23
23	Microscopic concavity and fluctuation bounds in a class of deposition processes. Annales De L'institut Henri Poincare (B) Probability and Statistics, 2012, 48, .	1.1	20
24	Large Deviations from the Almost Everywhere Central Limit Theorem. Journal of Theoretical Probability, 1997, 10, 935-965.	0.8	19
25	Large deviation rate functions for the partition function in a log-gamma distributed random potential. Annals of Probability, 2013, 41, .	1.8	18
26	Process-level quenched large deviations for random walk in random environment. Annales De L'institut Henri Poincare (B) Probability and Statistics, 2011, 47, .	1.1	17
27	Large deviation principles for Euclidean functionals and other nearly additive processes. Probability Theory and Related Fields, 2001, 120, 309-345.	1.8	16
28	Variational formulas and disorder regimes of random walks in random potentials. Bernoulli, 2017, 23,	1.3	15
29	Non-existence of bi-infinite geodesics in the exponential corner growth model. Forum of Mathematics, Sigma, 2020, 8, .	0.7	15
30	Second-order fluctuations and current across characteristic for a one-dimensional growth model of independent random walks. Annals of Probability, 2005, 33, 759.	1.8	14
31	Exact Connections between Current Fluctuations and the Second Class Particle in a Class of Deposition Models. Journal of Statistical Physics, 2007, 127, 431-455.	1.2	13
32	Second class particles as microscopic characteristics in totally asymmetric nearest-neighbor \$K\$-exclusion processes. Transactions of the American Mathematical Society, 2001, 353, 4801-4829.	0.9	12
33	Local stationarity in exponential last-passage percolation. Probability Theory and Related Fields, 2021, 180, 113-162.	1.8	12
34	Quenched invariance principle for multidimensional ballistic random walk in a random environment with a forbidden direction. Annals of Probability, 2007, 35, .	1.8	11
35	Coalescence estimates for the corner growth model with exponential weights. Electronic Journal of Probability, 2020, 25, .	1.0	11
36	A microscopic mechanism for the porous medium equation. Stochastic Processes and Their Applications, 1997, 66, 147-182.	0.9	10

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#	Article	IF	CITATIONS
37	Bounds for parametric sequence comparison. Discrete Applied Mathematics, 2002, 118, 181-198.	0.9	10
38	An almost sure invariance principle for additive functionals of Markov chains. Statistics and Probability Letters, 2008, 78, 854-860.	0.7	10
39	Parametric multiple sequence alignment and phylogeny construction. Journal of Discrete Algorithms, 2004, 2, 271-287.	0.7	9
40	Entropy for translation-invariant random-cluster measures. Annals of Probability, 1998, 26, 1139.	1.8	8
41	Diffusive Fluctuations for One-Dimensional Totally Asymmetric Interacting Random Dynamics. Communications in Mathematical Physics, 2002, 229, 141-182.	2.2	8
42	Transience of second-class particles and diffusive bounds for additive functionals in one-dimensional asymmetric and exclusion processes. Annals of Probability, 2003, 31, 148.	1.8	8
43	Existence, uniqueness and coalescence of directed planar geodesics: Proof via the increment-stationary growth process. Annales De L'institut Henri Poincare (B) Probability and Statistics, 2020, 56, .	1.1	8
44	Averaged vs.Âquenched large deviations and entropy for random walk in a dynamic random environment. Electronic Journal of Probability, 2017, 22, .	1.0	7
45	Joint distribution of Busemann functions in the exactly solvable corner growth model. Probability and Mathematical Physics, 2020, 1, 55-100.	1.5	7
46	A class of stochastic evolutions that scale to the porous medium equation. Journal of Statistical Physics, 1996, 85, 513-517.	1.2	5
47	Behavior dominated by slow particles in a disordered asymmetric exclusion process. Annals of Applied Probability, 2004, 14, 1577.	1.3	5
48	Correction added in proof. Probability Theory and Related Fields, 1993, 97, 103-112.	1.8	4
49	Properties of the limit shape for some last-passage growth models in random environments. Stochastic Processes and Their Applications, 2012, 122, 498-521.	0.9	3
50	Bounds for Least Relative Vacancy in a Simple Mosaic Process. SIAM Journal on Applied Mathematics, 1994, 54, 548-558.	1.8	2
51	Fluctuation Bounds in the Exponential Bricklayers Process. Journal of Statistical Physics, 2012, 147, 35-62.	1.2	2
52	Flats, spikes and crevices: the evolving shape of the inhomogeneous corner growth model. Electronic Journal of Probability, 2021, 26, .	1.0	2
53	Hammersley's harness process: Invariant distributions and height fluctuations. Annales De L'institut Henri Poincare (B) Probability and Statistics, 2017, 53, .	1.1	1
54	Independent Particles in a Dynamical Random Environment. Springer Proceedings in Mathematics and Statistics, 2019, , 75-121.	0.2	0