Neil O'Connell

List of Publications by Year
in descending order

67 papers	2,075 citations	304368 22 h-index	253896 43 g-index
68 all docs	68 docs citations	68 times ranked	614 citing authors

#	Article	IF	Citations
1	Large deviations and overflow probabilities for the general single-server queue, with applications. Mathematical Proceedings of the Cambridge Philosophical Society, 1995, 118, 363-374.	0.3	344
2	Brownian analogues of Burke's theorem. Stochastic Processes and Their Applications, 2001, 96, 285-304.	0.4	143
3	On the Characteristic PolynomialÂ¶ of a Random Unitary Matrix. Communications in Mathematical Physics, 2001, 220, 429-451.	1.0	133
4	Big Queues. Lecture Notes in Mathematics, 2004, , .	0.1	120
5	Entropy of ATM traffic streams: a tool for estimating QoS parameters. IEEE Journal on Selected Areas in Communications, 1995, 13, 981-990.	9.7	115
6	Directed polymers and the quantum Toda lattice. Annals of Probability, 2012, 40, .	0.8	111
7	A Representation for Non-Colliding Random Walks. Electronic Communications in Probability, 2002, 7, .	0.1	87
8	Tropical combinatorics and Whittaker functions. Duke Mathematical Journal, 2014, 163, .	0.8	78
9	Eigenvalues of the Laguerre Process as Non-Colliding Squared Bessel Processes. Electronic Communications in Probability, 2001, 6, .	0.1	78
10	Littelmann paths and Brownian paths. Duke Mathematical Journal, 2005, 130, 127.	0.8	61
11	Geometric RSK correspondence, Whittaker functions and symmetrized random polymers. Inventiones Mathematicae, 2014, 197, 361-416.	1.3	52
12	Some large deviation results for sparse random graphs. Probability Theory and Related Fields, 1998, 110, 277-285.	0.9	50
13	A path-transformation for random walks and the Robinson-Schensted correspondence. Transactions of the American Mathematical Society, 2003, 355, 3669-3697.	0.5	47
14	Non-Colliding Random Walks, Tandem Queues, and Discrete Orthogonal Polynomial Ensembles. Electronic Journal of Probability, 2002, 7, .	0.5	44
15	Weighted Occupation Time for Branching Particle Systems and a Representation for the Supercritical Superprocess. Canadian Mathematical Bulletin, 1994, 37, 187-196.	0.3	35
16	A large deviation principle with queueing applications. Stochastic and Stochastics Reports, 2002, 73, 25-35.	0.6	31
17	The genealogy of branching processes and the age of our most recent common ancestor. Advances in Applied Probability, 1995, 27, 418-442.	0.4	28
18	Continuous crystal and Duistermaatâ€“Heckman measure for Coxeter groups. Advances in Mathematics, 2009, 221, 1522-1583.	0.5	27

#	Article	IF	Citations
19	Complexity analysis of a decentralised graph colouring algorithm. Information Processing Letters, 2008, 107, 60-63.	0.4	26
20	Random matrices, non-colliding processes and queues. Lecture Notes in Mathematics, 2003, , 165-182.	0.1	24
21	Yule process approximation for the skeleton of a branching process. Journal of Applied Probability, 1993, 30, 725-729.	0.4	23
22	Yule process approximation for the skeleton of a branching process. Journal of Applied Probability, 1993, 30, 725-729.	0.4	22
23	A Large-Deviation Principle for Dirichlet Posteriors. Bernoulli, 2000, 6, 1021.	0.7	22
24	Exponential functionals of Brownian motion and class-one Whittaker functions. Annales De L'institut Henri Poincare (B) Probability and Statistics, 2011, 47, .	0.7	22
25	An inverse of Sanov's theorem. Statistics and Probability Letters, 1999, 42, 201-206.	0.4	21
26	A Multi-Layer Extension of the Stochastic Heat Equation. Communications in Mathematical Physics, 2016, 341, 1-33.	1.0	19
27	Moments of Random Matrices and Hypergeometric Orthogonal Polynomials. Communications in Mathematical Physics, 2019, 369, 1091-1145.	1.0	19
28	Tracy-Widom asymptotics for a random polymer model with gamma-distributed weights. Electronic Journal of Probability, 2015, 20, .	0.5	18
29	Free Fermions and the Classical Compact Groups. Journal of Statistical Physics, 2018, 171, 768-801.	0.5	17
30	Queues, stores, and tableaux. Journal of Applied Probability, 2005, 42, 1145-1167.	0.4	17
31	Large deviations for departures from a shared buffer. Journal of Applied Probability, 1997, 34, 753-766.	0.4	16
32	Bayesian network management. Queueing Systems, 1998, 28, 267-282.	0.6	14
33	Concentration results for a Brownian directed percolation problem. Stochastic Processes and Their Applications, 2002, 102, 207-220.	0.4	12
34	Integer moments of complex Wishart matrices and Hurwitz numbers. Annales De L'Institut Henri Poincare (D) Combinatorics, Physics and Their Interactions, 2021, 8, 243-268.	0.6	12
35	Large Deviations for Queue Lengths at a Multi-Buffered Resource. Journal of Applied Probability, 1998, 35, 240-245.	0.4	12
36	High Mutation Rate Loci in a Subdivided Population. Theoretical Population Biology, 1993, 44, 110-127.	0.5	11

#	Article	IF	Citations
37	Large deviations for departures from a shared buffer. Journal of Applied Probability, 1997, 34, 753-766.	0.4	11
38	Queues, stores, and tableaux. Journal of Applied Probability, 2005, 42, 1145-1167.	0.4	11
39	Exit problems associated with finite reflection groups. Probability Theory and Related Fields, 2005, 132, 501-538.	0.9	11
40	A q-weighted version of the Robinson-Schensted algorithm. Electronic Journal of Probability, 2013, 18, .	0.5	11
41	Free fermions andÎ±-determinantal processes. Journal of Physics A: Mathematical and Theoretical, 2019, 52, 165202.	0.7	10
42	Tilted elastic lines with columnar and point disorder, non-Hermitian quantum mechanics, and spiked random matrices: Pinning and localization. Physical Review E, 2021, 103, 042120.	0.8	10
43	Pitman's $2M-X$ Theorem for Skip-Free Random Walks with Markovian Increments. Electronic Communications in Probability, 2001, 6, .	0.1	9
44	Information Loss in Riffle Shuffling. Combinatorics Probability and Computing, 2002, 11, 79-95.	0.8	8
45	Geometric RSK and the Toda lattice. Illinois Journal of Mathematics, 2013, 57, .	0.1	8
46	The genealogy of branching processes and the age of our most recent common ancestor. Advances in Applied Probability, 1995, 27, 418-442.	0.4	7
47	Scaling Limits for Non-intersecting Polymers and Whittaker Measures. Journal of Statistical Physics, 2020, 179, 354-407.	0.5	7
48	The linear geodesic property is not generally preserved by a FIFO queue. Annals of Applied Probability, 1998, 8, .	0.6	7
49	Collision times and exit times from cones: a duality. Stochastic Processes and Their Applications, 1992, 43, 291-301.	0.4	6
50	Large Deviations for Queue Lengths at a Multi-Buffered Resource. Journal of Applied Probability, 1998, 35, 240-245.	0.4	6
51	Interlacing Diffusions. Lecture Notes in Mathematics, 2019, , 301-380.	0.1	6
52	Moments of discrete orthogonal polynomial ensembles. Electronic Journal of Probability, 2020, 25, .	0.5	5
53	A large deviations heuristic made precise. Mathematical Proceedings of the Cambridge Philosophical Society, 2000, 128, 561-569.	0.3	4
54	Interacting diffusions on positive definite matrices. Probability Theory and Related Fields, 2021, 180, 679.	0.9	4

#	Article	IF	Citations
55	Sample path large deviations in finer topologies. Stochastic and Stochastics Reports, 1999, 67, 231-254.	0.6	3
56	Interlaced processes on the circle. Annales De L'institut Henri Poincare (B) Probability and Statistics, 2009, 45, .	0.7	3
57	Invariant rate functions for discrete-time queues. Annals of Applied Probability, 2003, 13, .	0.6	3
58	The geometric Burge correspondence and the partition function of polymer replicas. Selecta Mathematica, New Series, 2021, 27, 1.	0.4	3
59	Microscopic and macroscopic aspects of epidemics. Applied Mathematics and Computation, 1992, 47, 237-258.	1.4	2
60	The M/M/1 queue is Bernoulli. Colloquium Mathematicum, 2008, 110, 205-210.	0.2	2
61	Matchings and the variance of Lipschitz functions. ESAIM - Probability and Statistics, 2009, 13, 400-408.	0.2	1
62	Branching and Inference in Population Genetics. The IMA Volumes in Mathematics and Its Applications, 1997, , 97-106.	0.5	1
63	Stochastic BÃcklund Transformations. Lecture Notes in Mathematics, 2015, , 467-496.	0.1	1
64	Large deviations at equilibrium for a large star-shaped loss network. Annals of Applied Probability, 2000, 10, .	0.6	1
65	Review: Torgny Lindvall, Lectures on the Coupling Method. Annals of Probability, 1995, 23, 1456.	0.8	0
66	Random Finite Topologies and their Thresholds. Combinatorics Probability and Computing, 2001, 10, 239-249.	0.8	0
67	Loop-Erased Walks and Random Matrices. Journal of Statistical Physics, 2019, 177, 528-567.	0.5	0