

# Neil O'Connell

## List of Publications by Year in descending order

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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	Interacting diffusions on positive definite matrices. Probability Theory and Related Fields, 2021, 180, 679.	0.9	4
2	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
3	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
4	The geometric Burge correspondence and the partition function of polymer replicas. Selecta Mathematica, New Series, 2021, 27, 1.	0.4	3
5	Scaling Limits for Non-intersecting Polymers and Whittaker Measures. Journal of Statistical Physics, 2020, 179, 354-407.	0.5	7
6	Moments of discrete orthogonal polynomial ensembles. Electronic Journal of Probability, 2020, 25, .	0.5	5
7	Loop-Erased Walks and Random Matrices. Journal of Statistical Physics, 2019, 177, 528-567.	0.5	0
8	Free fermions and $\langle i \rangle \pm \langle i \rangle$ -determinantal processes. Journal of Physics A: Mathematical and Theoretical, 2019, 52, 165202.	0.7	10
9	Moments of Random Matrices and Hypergeometric Orthogonal Polynomials. Communications in Mathematical Physics, 2019, 369, 1091-1145.	1.0	19
10	Interlacing Diffusions. Lecture Notes in Mathematics, 2019, , 301-380.	0.1	6
11	Free Fermions and the Classical Compact Groups. Journal of Statistical Physics, 2018, 171, 768-801.	0.5	17
12	A Multi-Layer Extension of the Stochastic Heat Equation. Communications in Mathematical Physics, 2016, 341, 1-33.	1.0	19
13	Tracy-Widom asymptotics for a random polymer model with gamma-distributed weights. Electronic Journal of Probability, 2015, 20, .	0.5	18
14	Stochastic Bäcklund Transformations. Lecture Notes in Mathematics, 2015, , 467-496.	0.1	1
15	Tropical combinatorics and Whittaker functions. Duke Mathematical Journal, 2014, 163, .	0.8	78
16	Geometric RSK correspondence, Whittaker functions and symmetrized random polymers. Inventiones Mathematicae, 2014, 197, 361-416.	1.3	52
17	A $q$ -weighted version of the Robinson-Schensted algorithm. Electronic Journal of Probability, 2013, 18, .	0.5	11
18	Geometric RSK and the Toda lattice. Illinois Journal of Mathematics, 2013, 57, .	0.1	8

#	ARTICLE	IF	CITATIONS
19	Directed polymers and the quantum Toda lattice. <i>Annals of Probability</i> , 2012, 40, .	0.8	111
20	Exponential functionals of Brownian motion and class-one Whittaker functions. <i>Annales De L'institut Henri Poincare (B) Probability and Statistics</i> , 2011, 47, .	0.7	22
21	Interlaced processes on the circle. <i>Annales De L'institut Henri Poincare (B) Probability and Statistics</i> , 2009, 45, .	0.7	3
22	Matchings and the variance of Lipschitz functions. <i>ESAIM - Probability and Statistics</i> , 2009, 13, 400-408.	0.2	1
23	Continuous crystal and Duistermaat's Heckman measure for Coxeter groups. <i>Advances in Mathematics</i> , 2009, 221, 1522-1583.	0.5	27
24	Complexity analysis of a decentralised graph colouring algorithm. <i>Information Processing Letters</i> , 2008, 107, 60-63.	0.4	26
25	The M/M/1 queue is Bernoulli. <i>Colloquium Mathematicum</i> , 2008, 110, 205-210.	0.2	2
26	Queues, stores, and tableaux. <i>Journal of Applied Probability</i> , 2005, 42, 1145-1167.	0.4	11
27	Littelmann paths and Brownian paths. <i>Duke Mathematical Journal</i> , 2005, 130, 127.	0.8	61
28	Exit problems associated with finite reflection groups. <i>Probability Theory and Related Fields</i> , 2005, 132, 501-538.	0.9	11
29	Queues, stores, and tableaux. <i>Journal of Applied Probability</i> , 2005, 42, 1145-1167.	0.4	17
30	Big Queues. <i>Lecture Notes in Mathematics</i> , 2004, , .	0.1	120
31	A path-transformation for random walks and the Robinson-Schensted correspondence. <i>Transactions of the American Mathematical Society</i> , 2003, 355, 3669-3697.	0.5	47
32	Random matrices, non-colliding processes and queues. <i>Lecture Notes in Mathematics</i> , 2003, , 165-182.	0.1	24
33	Invariant rate functions for discrete-time queues. <i>Annals of Applied Probability</i> , 2003, 13, .	0.6	3
34	Information Loss in Riffle Shuffling. <i>Combinatorics Probability and Computing</i> , 2002, 11, 79-95.	0.8	8
35	A large deviation principle with queueing applications. <i>Stochastic and Stochastics Reports</i> , 2002, 73, 25-35.	0.6	31
36	Concentration results for a Brownian directed percolation problem. <i>Stochastic Processes and Their Applications</i> , 2002, 102, 207-220.	0.4	12

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37	A Representation for Non-Colliding Random Walks. <i>Electronic Communications in Probability</i> , 2002, 7, .	0.1	87
38	Non-Colliding Random Walks, Tandem Queues, and Discrete Orthogonal Polynomial Ensembles. <i>Electronic Journal of Probability</i> , 2002, 7, .	0.5	44
39	Random Finite Topologies and their Thresholds. <i>Combinatorics Probability and Computing</i> , 2001, 10, 239-249.	0.8	0
40	On the Characteristic Polynomial of a Random Unitary Matrix. <i>Communications in Mathematical Physics</i> , 2001, 220, 429-451.	1.0	133
41	Brownian analogues of Burke's theorem. <i>Stochastic Processes and Their Applications</i> , 2001, 96, 285-304.	0.4	143
42	Pitman's $M-X$ Theorem for Skip-Free Random Walks with Markovian Increments. <i>Electronic Communications in Probability</i> , 2001, 6, .	0.1	9
43	Eigenvalues of the Laguerre Process as Non-Colliding Squared Bessel Processes. <i>Electronic Communications in Probability</i> , 2001, 6, .	0.1	78
44	A large deviations heuristic made precise. <i>Mathematical Proceedings of the Cambridge Philosophical Society</i> , 2000, 128, 561-569.	0.3	4
45	A Large-Deviation Principle for Dirichlet Posteriors. <i>Bernoulli</i> , 2000, 6, 1021.	0.7	22
46	Large deviations at equilibrium for a large star-shaped loss network. <i>Annals of Applied Probability</i> , 2000, 10, .	0.6	1
47	Sample path large deviations in finer topologies. <i>Stochastic and Stochastics Reports</i> , 1999, 67, 231-254.	0.6	3
48	An inverse of Sanov's theorem. <i>Statistics and Probability Letters</i> , 1999, 42, 201-206.	0.4	21
49	Bayesian network management. <i>Queueing Systems</i> , 1998, 28, 267-282.	0.6	14
50	Some large deviation results for sparse random graphs. <i>Probability Theory and Related Fields</i> , 1998, 110, 277-285.	0.9	50
51	Large Deviations for Queue Lengths at a Multi-Buffered Resource. <i>Journal of Applied Probability</i> , 1998, 35, 240-245.	0.4	6
52	The linear geodesic property is not generally preserved by a FIFO queue. <i>Annals of Applied Probability</i> , 1998, 8, .	0.6	7
53	Large Deviations for Queue Lengths at a Multi-Buffered Resource. <i>Journal of Applied Probability</i> , 1998, 35, 240-245.	0.4	12
54	Large deviations for departures from a shared buffer. <i>Journal of Applied Probability</i> , 1997, 34, 753-766.	0.4	16

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55	Large deviations for departures from a shared buffer. <i>Journal of Applied Probability</i> , 1997, 34, 753-766.	0.4	11
56	Branching and Inference in Population Genetics. <i>The IMA Volumes in Mathematics and Its Applications</i> , 1997, , 97-106.	0.5	1
57	Review: Torgny Lindvall, Lectures on the Coupling Method. <i>Annals of Probability</i> , 1995, 23, 1456.	0.8	0
58	The genealogy of branching processes and the age of our most recent common ancestor. <i>Advances in Applied Probability</i> , 1995, 27, 418-442.	0.4	7
59	The genealogy of branching processes and the age of our most recent common ancestor. <i>Advances in Applied Probability</i> , 1995, 27, 418-442.	0.4	28
60	Large deviations and overflow probabilities for the general single-server queue, with applications. <i>Mathematical Proceedings of the Cambridge Philosophical Society</i> , 1995, 118, 363-374.	0.3	344
61	Entropy of ATM traffic streams: a tool for estimating QoS parameters. <i>IEEE Journal on Selected Areas in Communications</i> , 1995, 13, 981-990.	9.7	115
62	Weighted Occupation Time for Branching Particle Systems and a Representation for the Supercritical Superprocess. <i>Canadian Mathematical Bulletin</i> , 1994, 37, 187-196.	0.3	35
63	High Mutation Rate Loci in a Subdivided Population. <i>Theoretical Population Biology</i> , 1993, 44, 110-127.	0.5	11
64	Yule process approximation for the skeleton of a branching process. <i>Journal of Applied Probability</i> , 1993, 30, 725-729.	0.4	23
65	Yule process approximation for the skeleton of a branching process. <i>Journal of Applied Probability</i> , 1993, 30, 725-729.	0.4	22
66	Microscopic and macroscopic aspects of epidemics. <i>Applied Mathematics and Computation</i> , 1992, 47, 237-258.	1.4	2
67	Collision times and exit times from cones: a duality. <i>Stochastic Processes and Their Applications</i> , 1992, 43, 291-301.	0.4	6