

# Neal Madras

## List of Publications by Year in descending order

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Version: 2024-02-01

35  
papers

2,026  
citations

623734

14  
h-index

414414

32  
g-index

35  
all docs

35  
docs citations

35  
times ranked

1290  
citing authors

#	ARTICLE	IF	CITATIONS
1	The pivot algorithm: A highly efficient Monte Carlo method for the self-avoiding walk. Journal of Statistical Physics, 1988, 50, 109-186.	1.2	809
2	Critical exponents, hyperscaling, and universal amplitude ratios for two- and three-dimensional self-avoiding walks. Journal of Statistical Physics, 1995, 80, 661-754.	1.2	267
3	Monte-Carlo approximation algorithms for enumeration problems. Journal of Algorithms, 1989, 10, 429-448.	0.9	242
4	When Is Quarantine a Useful Control Strategy for Emerging Infectious Diseases?. American Journal of Epidemiology, 2006, 163, 479-485.	3.4	127
5	Nonergodicity of local, length-conserving Monte Carlo algorithms for the self-avoiding walk. Journal of Statistical Physics, 1987, 47, 573-595.	1.2	94
6	The noisy voter model. Stochastic Processes and Their Applications, 1995, 55, 23-43.	0.9	87
7	A pattern theorem for lattice clusters. Annals of Combinatorics, 1999, 3, 357-384.	0.6	47
8	The Self-Avoiding Walk. , 2013, , .		47
9	Branching random walks on trees. Stochastic Processes and Their Applications, 1992, 42, 255-267.	0.9	40
10	Modeling Stem Cell Development by Retrospective Analysis of Gene Expression Profiles in Single Progenitor-Derived Colonies. Stem Cells, 2002, 20, 230-240.	3.2	39
11	A rigorous bound on the critical exponent for the number of lattice trees, animals, and polygons. Journal of Statistical Physics, 1995, 78, 681-699.	1.2	30
12	Self-Avoiding Walks on Hyperbolic Graphs. Combinatorics Probability and Computing, 2005, 14, 523-548.	1.3	25
13	On the swapping algorithm. Random Structures and Algorithms, 2003, 22, 66-97.	1.1	24
14	Trend in frequency of extreme precipitation events over Ontario from ensembles of multiple GCMs. Climate Dynamics, 2016, 46, 2909-2921.	3.8	21
15	Semi-nonparametric estimation with Bernstein polynomials. Economics Letters, 2005, 89, 153-156.	1.9	16
16	Structure of random self-avoiding permutations. Random Structures and Algorithms, 2016, 49, 599-631.	1.1	14
17	Large Deviations and Ratio Limit Theorems for Pattern-Avoiding Permutations. Combinatorics Probability and Computing, 2014, 23, 161-200.	1.3	12
18	Growth pressure can drive early chick lens geometries. Developmental Dynamics, 1993, 196, 153-164.	1.8	9

#	ARTICLE	IF	CITATIONS
19	A Lower Bound for the End-to-End Distance of the Self-Avoiding Walk. Canadian Mathematical Bulletin, 2014, 57, 113-118.	0.5	9
20	Location of the adsorption transition for lattice polymers. Journal of Physics A: Mathematical and Theoretical, 2017, 50, 064003.	2.1	9
21	A Process in a Randomly Fluctuating Environment. Annals of Probability, 1986, 14, 119.	1.8	8
22	Temperature-driven population abundance model for Culex pipiens and Culex restuans (Diptera: Tj ETQq0 0 0 rgBT, /Overlock 10 Tf 50 6	1.7	8
23	End patterns of self-avoiding walks. Journal of Statistical Physics, 1988, 53, 689-701.	1.2	7
24	Theory and experiment of chain length effects on the adsorption of polyelectrolytes onto spherical particles: the long and the short of it. Physical Chemistry Chemical Physics, 2021, 23, 300-310.	2.8	7
25	On the Number of Entangled Clusters. Journal of Statistical Physics, 2010, 139, 1-26.	1.2	5
26	Large Deviations for Permutations Avoiding Monotone Patterns. Electronic Journal of Combinatorics, 2016, 23, .	0.4	5
27	Random-walk interpretations of classical iteration methods. Linear Algebra and Its Applications, 1995, 216, 61-79.	0.9	4
28	Epidemic Dynamics and Adaptive Vaccination Strategy: Renewal Equation Approach. Bulletin of Mathematical Biology, 2020, 82, 122.	1.9	4
29	Oscillating random walk with a moving boundary. Israel Journal of Mathematics, 1994, 88, 333-365.	0.8	3
30	Anisotropic self-avoiding walks. Journal of Mathematical Physics, 2000, 41, 1321-1337.	1.1	3
31	Random walks with killing. Probability Theory and Related Fields, 1989, 80, 581-600.	1.8	2
32	Age-Structured Epidemic with Adaptive Vaccination Strategy: Scalar-Renewal Equation Approach. Springer Proceedings in Mathematics and Statistics, 2021, , 591-599.	0.2	1
33	Bounded affine permutations I. Pattern avoidance and enumeration. Discrete Mathematics and Theoretical Computer Science, 2021, vol. 22 no. 2, Permutation..., .	0.1	1
34	Directed polymers on a disordered tree with a defect subtree. Journal of Physics A: Mathematical and Theoretical, 2018, 51, 154001.	2.1	0
35	Bounded Affine Permutations II. Avoidance of Decreasing Patterns. Annals of Combinatorics, 2021, 25, 1007-1048.	0.6	0