

Andrew Rechnitzer

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

598
citations

567281

15
h-index

677142

22
g-index

50
all docs

50
docs citations

50
times ranked

205
citing authors

#	ARTICLE	IF	CITATIONS
1	Layering transitions for adsorbing polymers in poor solvents. <i>Europhysics Letters</i> , 2005, 70, 726-732.	2.0	54
2	Two non-holonomic lattice walks in the quarter plane. <i>Theoretical Computer Science</i> , 2009, 410, 3616-3630.	0.9	43
3	Lattice animals and heaps of dimers. <i>Discrete Mathematics</i> , 2002, 258, 235-274.	0.7	41
4	Pulling adsorbing and collapsing polymers from a surface. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2005, 2005, P05008.	2.3	41
5	Stretching of a chain polymer adsorbed at a surface. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2004, 2004, P10004.	2.3	38
6	Accurate Lower Bounds on 2-D Constraint Capacities From Corner Transfer Matrices. <i>IEEE Transactions on Information Theory</i> , 2014, 60, 3845-3858.	2.4	22
7	On the location of the surface-attached globule phase in collapsing polymers. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2007, 40, 13257-13267.	2.1	21
8	Upper bounds on the growth rates of independent sets in two dimensions via corner transfer matrices. <i>Linear Algebra and Its Applications</i> , 2018, 555, 139-156.	0.9	20
9	Self-Avoiding Random Walk with Multiple Site Weightings and Restrictions. <i>Physical Review Letters</i> , 2006, 96, 240603.	7.8	19
10	Partially directed paths in a wedge. <i>Journal of Combinatorial Theory - Series A</i> , 2008, 115, 623-650.	0.8	18
11	Generalized atmospheric Rosenbluth methods (GARM). <i>Journal of Physics A: Mathematical and Theoretical</i> , 2008, 41, 442002.	2.1	18
12	Semi-Baxter and Strong-Baxter: Two Relatives of the Baxter Sequence. <i>SIAM Journal on Discrete Mathematics</i> , 2018, 32, 2795-2819.	0.8	18
13	Motzkin path models of long chain polymers in slits. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2007, 40, 4415-4437.	2.1	17
14	Atmospheres of polygons and knotted polygons. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2008, 41, 105002.	2.1	17
15	Haruspicy and anisotropic generating functions. <i>Advances in Applied Mathematics</i> , 2003, 30, 228-257.	0.7	15
16	On the universality of knot probability ratios. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2011, 44, 162002.	2.1	14
17	Exact enumeration and Monte Carlo results for self-avoiding walks in a slab. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2007, 40, 7509-7521.	2.1	13
18	Generalized atmospheric sampling of self-avoiding walks. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2009, 42, 335001.	2.1	13

#	ARTICLE	IF	CITATIONS
19	GENERALIZED ATMOSPHERIC SAMPLING OF KNOTTED POLYGONS. Journal of Knot Theory and Its Ramifications, 2011, 20, 1145-1171.	0.3	13
20	Haruspicy 2: The anisotropic generating function of self-avoiding polygons is not D-finite. Journal of Combinatorial Theory - Series A, 2006, 113, 520-546.	0.8	10
21	Counting elements and geodesics in Thompson's group F. Journal of Algebra, 2010, 324, 102-121.	0.7	9
22	Enumerating Alternating Trees. Journal of Combinatorial Theory - Series A, 2001, 94, 142-151.	0.8	8
23	Adsorbing and Collapsing Directed Animals. Journal of Statistical Physics, 2001, 105, 49-91.	1.2	7
24	Exchange relations, Dyck paths and copolymer adsorption. Discrete Applied Mathematics, 2004, 140, 49-71.	0.9	7
25	A Monte Carlo study of non-trapped self-avoiding walks. Journal of Physics A: Mathematical and Theoretical, 2012, 45, 405004.	2.1	7
26	On the cogrowth of Thompson's group F. Groups, Complexity, Cryptology, 2012, 4, .	0.3	7
27	Computing elliptic curves over \mathbb{Q} . Mathematics of Computation, 2018, 88, 1341-1390.	2.1	7
28	Self-avoiding walks in slits and slabs with interactive walls. Journal of Mathematical Chemistry, 2009, 45, 113-128.	1.5	6
29	Some geodesic problems in groups. Groups, Complexity, Cryptology, 2010, 2, .	0.3	6
30	The compressibility of minimal lattice knots. Journal of Statistical Mechanics: Theory and Experiment, 2012, 2012, P05003.	2.3	6
31	BFACF-style algorithms for polygons in the body-centered and face-centered cubic lattices. Journal of Physics A: Mathematical and Theoretical, 2011, 44, 165001.	2.1	5
32	Lattice knots in a slab. Journal of Statistical Mechanics: Theory and Experiment, 2012, 2012, P09004.	2.3	5
33	Random Sampling of Trivial Words in Finitely Presented Groups. Experimental Mathematics, 2015, 24, 391-409.	0.7	5
34	An exact solution of three interacting friendly walks in the bulk. Journal of Physics A: Mathematical and Theoretical, 2016, 49, 154004.	2.1	5
35	Counting zeros of Dirichlet L -functions. Mathematics of Computation, 2021, 90, 1455-1482.	2.1	5
36	Self-avoiding walks and trails on the 3.122 lattice. Journal of Physics A, 2005, 38, 543-554.	1.6	4

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37	Haruspicy 3: The anisotropic generating function of directed bond-animals is not D-finite. Journal of Combinatorial Theory - Series A, 2006, 113, 1031-1049.	0.8	4
38	On directed compact percolation near a damp wall. Journal of Physics A: Mathematical and Theoretical, 2009, 42, 125001.	2.1	4
39	Exact solutions of lattice polymer models. Journal of Mathematical Chemistry, 2009, 45, 39-57.	1.5	4
40	Minimal knotted polygons in cubic lattices. Journal of Statistical Mechanics: Theory and Experiment, 2011, 2011, P09008.	2.3	4
41	Mean unknotting times of random knots and embeddings. Journal of Statistical Mechanics: Theory and Experiment, 2007, 2007, P05004-P05004.	2.3	3
42	The exact perimeter generating function for a model of punctured staircase polygons. Journal of Physics A: Mathematical and Theoretical, 2008, 41, 215002.	2.1	3
43	The cogrowth series for $BS(N, N)$ is D-finite. International Journal of Algebra and Computation, 2014, 24, 171-187.	0.5	3
44	Exact solution of two friendly walks above a sticky wall with single and double interactions. Journal of Physics A: Mathematical and Theoretical, 2012, 45, 425003.	2.1	2
45	Force signature of the unzipping transition for strip confined two-dimensional polymers. Journal of Physics A: Mathematical and Theoretical, 2017, 50, 484001.	2.1	2
46	Computing Elliptic Curves over \mathbb{Q} : Bad Reduction at One Prime. Fields Institute Communications, 2017, , 387-415.	1.3	2
47	The Anisotropic Generating Function of Self-Avoiding Polygons is not D-Finite. Lecture Notes in Physics, 2009, , 93-115.	0.7	2
48	Confining multiple polymers between sticky walls: a directed walk model of two polymers. Journal of Physics A: Mathematical and Theoretical, 2014, 47, 415002.	2.1	1
49	Directed paths in a wedge. Journal of Physics A: Mathematical and Theoretical, 2007, 40, 14069-14084.	2.1	0
50	A Markov Chain Sampler for Plane Curves. Experimental Mathematics, 2019, , 1-31.	0.7	0