

Charles Radin

List of Publications by Year in descending order

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86
papers

1,925
citations

257450

24
h-index

289244

40
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89
all docs

89
docs citations

89
times ranked

697
citing authors

#	ARTICLE	IF	CITATIONS
1	Conway and Aperiodic Tilings. <i>Mathematical Intelligencer</i> , 2021, 43, 15-20.	0.2	1
2	Permutations with fixed pattern densities. <i>Random Structures and Algorithms</i> , 2020, 56, 220-250.	1.1	13
3	Phase Transitions in Finite Random Networks. <i>Journal of Statistical Physics</i> , 2020, 181, 305-328.	1.2	3
4	Homogeneous Crystallization in Cyclically Sheared Frictionless Grains. <i>Physical Review Letters</i> , 2020, 125, 258003.	7.8	6
5	Phases of Granular Matter. <i>Journal of Statistical Physics</i> , 2019, 175, 542-553.	1.2	4
6	Nucleation in Sheared Granular Matter. <i>Physical Review Letters</i> , 2018, 120, 055701.	7.8	40
7	A symmetry breaking transition in the edge/triangle network model. <i>Annales De L'Institut Henri Poincare (D) Combinatorics, Physics and Their Interactions</i> , 2018, 5, 251-286.	1.1	4
8	Phases in large combinatorial systems. <i>Annales De L'Institut Henri Poincare (D) Combinatorics, Physics and Their Interactions</i> , 2018, 5, 287-308.	1.1	3
9	The phases of large networks with edge and triangle constraints. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2017, 50, 435001.	2.1	11
10	Multipodal Structure and Phase Transitions in Large Constrained Graphs. <i>Journal of Statistical Physics</i> , 2017, 168, 233-258.	1.2	25
11	Singularities in the Entropy of Asymptotically Large Simple Graphs. <i>Journal of Statistical Physics</i> , 2015, 158, 853-865.	1.2	27
12	The asymptotics of large constrained graphs. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2014, 47, 175001.	2.1	23
13	Phase transitions in a complex network. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2013, 46, 305002.	2.1	50
14	Phase transitions in exponential random graphs. <i>Annals of Applied Probability</i> , 2013, 23, .	1.3	45
15	Emergent Structures in Large Networks. <i>Journal of Applied Probability</i> , 2013, 50, 883-888.	0.7	7
16	Emergent Structures in Large Networks. <i>Journal of Applied Probability</i> , 2013, 50, 883-888.	0.7	15
17	First order phase transition in a model of quasicrystals. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2011, 44, 255001.	2.1	12
18	Sound speed in water-saturated glass beads as a function of frequency and porosity. <i>Journal of the Acoustical Society of America</i> , 2011, 129, EL101-EL107.	1.1	8

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19	Dilatancy Transition in a Granular Model. <i>Journal of Statistical Physics</i> , 2011, 143, 215-225.	1.2	2
20	Rigidity in Solids. <i>Journal of Statistical Physics</i> , 2011, 144, 1247-1255.	1.2	1
21	Modelling Quasicrystals at Positive Temperature. <i>Journal of Statistical Physics</i> , 2010, 138, 465-475.	1.2	8
22	Random close packing in a granular model. <i>Journal of Mathematical Physics</i> , 2010, 51, 113302.	1.1	8
23	The characterization of ground states. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2010, 43, 305001.	2.1	4
24	Random Loose Packing in Granular Matter. <i>Journal of Statistical Physics</i> , 2009, 135, 1-23.	1.2	10
25	Random Close Packing of Granular Matter. <i>Journal of Statistical Physics</i> , 2008, 131, 567-573.	1.2	59
26	Phase transition in a static granular system. <i>Europhysics Letters</i> , 2007, 78, 44004.	2.0	55
27	The 96th Statistical Mechanics Conference. <i>Applied Rheology</i> , 2007, 17, 166-166.	5.2	0
28	Title is missing!. <i>American Mathematical Monthly</i> , 2006, 113, 87.	0.3	0
29	Fluid-Solid Transition in a Hard-Core System. <i>Physical Review Letters</i> , 2006, 96, 025701.	7.8	11
30	The Symmetry of Optimally Dense Packings. , 2006, , 197-207.		6
31	Conjugacies for Tiling Dynamical Systems. <i>Communications in Mathematical Physics</i> , 2005, 254, 343-359.	2.2	19
32	Most stable structure for hard spheres. <i>Physical Review E</i> , 2005, 72, 016708.	2.1	41
33	Structure of the Hard Sphere Solid. <i>Physical Review Letters</i> , 2005, 94, 015502.	7.8	20
34	Optimally Dense Packings of Hyperbolic Space. <i>Geometriae Dedicata</i> , 2004, 104, 37-59.	0.3	10
35	Orbits of Orbs: Sphere Packing Meets Penrose Tilings. <i>American Mathematical Monthly</i> , 2004, 111, 137-149.	0.3	2
36	Densest Packing of Equal Spheres in Hyperbolic Space. <i>Discrete and Computational Geometry</i> , 2002, 29, 23-39.	0.6	24

#	ARTICLE	IF	CITATIONS
37	A Homeomorphism Invariant for Substitution Tiling Spaces. <i>Geometriae Dedicata</i> , 2002, 90, 153-182.	0.3	21
38	Isomorphism of hierarchical structures. <i>Ergodic Theory and Dynamical Systems</i> , 2001, 21, .	0.6	42
39	Relations in $SO(3)$ Supported by Geodetic Angles. <i>Discrete and Computational Geometry</i> , 2000, 23, 453-463.	0.6	4
40	Symmetries of Quasicrystals. <i>Journal of Statistical Physics</i> , 1999, 95, 827-833.	1.2	12
41	On 2-Generator Subgroups of $SO(3)$. <i>Transactions of the American Mathematical Society</i> , 1999, 351, 4469-4480.	0.9	17
42	An Algebraic Invariant for Substitution Tiling Systems. <i>Geometriae Dedicata</i> , 1998, 73, 21-37.	0.3	10
43	Subgroups of $SO(3)$ Associated with Tilings. <i>Journal of Algebra</i> , 1998, 202, 611-633.	0.7	13
44	Quaquaversal tilings and rotations. <i>Inventiones Mathematicae</i> , 1998, 132, 179-188.	2.5	30
45	Aperiodic Tilings, Ergodic Theory, and Rotations. , 1997, , 499-519.		7
46	The isoperimetric problem for pinwheel tilings. <i>Communications in Mathematical Physics</i> , 1996, 177, 255-263.	2.2	11
47	Aperiodic tilings in higher dimensions. <i>Proceedings of the American Mathematical Society</i> , 1995, 123, 3543-3548.	0.8	4
48	Space tilings and substitutions. <i>Geometriae Dedicata</i> , 1995, 55, 257-264.	0.3	38
49	The Pinwheel Tilings of the Plane. <i>Annals of Mathematics</i> , 1994, 139, 661.	4.2	130
50	Are there chaotic tilings?. <i>Communications in Mathematical Physics</i> , 1993, 152, 215-219.	2.2	19
51	Space tilings and local isomorphism. <i>Geometriae Dedicata</i> , 1992, 42, 355-360.	0.3	108
52	DISORDERED GROUND STATES OF CLASSICAL LATTICE MODELS. <i>Reviews in Mathematical Physics</i> , 1991, 03, 125-135.	1.7	23
53	Global order from local sources. <i>Bulletin of the American Mathematical Society</i> , 1991, 25, 335-364.	1.5	74
54	Why solids are not really crystalline. <i>Physical Review B</i> , 1989, 39, 1950-1952.	3.2	14

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55	THE THIRD LAW OF THERMODYNAMICS. <i>Modern Physics Letters B</i> , 1987, 01, 61-66.	1.9	9
56	LOW TEMPERATURE AND THE ORIGIN OF CRYSTALLINE SYMMETRY. <i>International Journal of Modern Physics B</i> , 1987, 01, 1157-1191.	2.0	65
57	The unstable chemical structure of quasicrystalline alloys. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1986, 119, 133-134.	2.1	17
58	Crystals and quasicrystals: A lattice gas model. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1986, 114, 381-383.	2.1	24
59	Crystals and quasicrystals: A continuum model. <i>Communications in Mathematical Physics</i> , 1986, 105, 385-390.	2.2	17
60	Correlations in classical ground states. <i>Journal of Statistical Physics</i> , 1986, 43, 707-712.	1.2	15
61	Tiling, periodicity, and crystals. <i>Journal of Mathematical Physics</i> , 1985, 26, 1342-1344.	1.1	31
62	Classical ground states in one dimension. <i>Journal of Statistical Physics</i> , 1984, 35, 109-117.	1.2	23
63	Periodicity of Classical Ground States. <i>Physical Review Letters</i> , 1983, 51, 621-622.	7.8	37
64	Crystalline symmetry and surface tension. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1982, 113, 338-342.	2.6	7
65	A first-order phase transition between crystal phases in the shift model. <i>Journal of Statistical Physics</i> , 1982, 28, 473-478.	1.2	11
66	The crystal structure of the noble gases. <i>Journal of Chemical Physics</i> , 1981, 75, 2012-2013.	3.0	27
67	The ground state for soft disks. <i>Journal of Statistical Physics</i> , 1981, 26, 365-373.	1.2	77
68	The ground state for sticky disks. <i>Journal of Statistical Physics</i> , 1980, 22, 281-287.	1.2	82
69	The infinite-volume ground state of the Lennard-Jones potential. <i>Journal of Statistical Physics</i> , 1979, 20, 719-724.	1.2	58
70	The symmetry of ground states under perturbation. <i>Journal of Statistical Physics</i> , 1979, 21, 601-607.	1.2	25
71	Invariant domains for the time-dependent Schrödinger equation. <i>Journal of Differential Equations</i> , 1978, 29, 289-296.	2.2	43
72	Signal propagation in lattice models of quantum many-body systems. <i>Communications in Mathematical Physics</i> , 1978, 62, 159-166.	2.2	4

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73	Convergence rates of ergodic limits for semigroups and cosine functions. Semigroup Forum, 1978, 16, 89-95.	0.6	26
74	Pointwise ergodic theory on operator algebras. Journal of Mathematical Physics, 1978, 19, 1983-1985.	1.1	5
75	The dynamical instability of nonrelativistic many-body systems. Communications in Mathematical Physics, 1977, 54, 69-79.	2.2	12
76	Average boundary conditions in Cauchy problems. Journal of Functional Analysis, 1976, 23, 23-32.	1.4	7
77	Particle lattice models and the dynamical instability of many-body systems. Communications in Mathematical Physics, 1975, 44, 165-168.	2.2	3
78	Some remarks on the evolution of a Schrödinger particle in an attractive $1/r^2$ potential. Journal of Mathematical Physics, 1975, 16, 544-547.	1.1	18
79	Dynamics of limit models. Communications in Mathematical Physics, 1973, 33, 283-292.	2.2	5
80	Automorphism of von Neumann algebras as point transformations. Proceedings of the American Mathematical Society, 1973, 39, 343-343.	0.8	2
81	Ergodicity in von Neumann algebras. Pacific Journal of Mathematics, 1973, 48, 235-239.	0.5	2
82	Relaxation of Local Thermal Deviations from Equilibrium. Journal of Mathematical Physics, 1971, 12, 2043-2046.	1.1	21
83	Gentle perturbations. Communications in Mathematical Physics, 1971, 23, 189-198.	2.2	6
84	Noncommutative mean ergodic theory. Communications in Mathematical Physics, 1971, 21, 291-302.	2.2	12
85	Approach to Equilibrium in a Simple Model. Journal of Mathematical Physics, 1970, 11, 2945-2955.	1.1	38
86	Bipodal Structure in Oversaturated Random Graphs. International Mathematics Research Notices, 0, , rrw261.	1.0	5