

Roman Kotecký^{1/2}

List of Publications by Year in descending order

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62
papers

2,196
citations

304701

22
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46
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docs citations

63
times ranked

723
citing authors

#	ARTICLE	IF	CITATIONS
1	A rigorous theory of finite-size scaling at first-order phase transitions. <i>Journal of Statistical Physics</i> , 1990, 61, 79-119.	1.2	260
2	Cluster expansion for abstract polymer models. <i>Communications in Mathematical Physics</i> , 1986, 103, 491-498.	2.2	234
3	Finite-size effects at asymmetric first-order phase transitions. <i>Physical Review Letters</i> , 1992, 68, 1734-1737.	7.8	134
4	Finite-size scaling for Potts models. <i>Journal of Statistical Physics</i> , 1991, 62, 529-551.	1.2	126
5	First-order phase transitions in large entropy lattice models. <i>Communications in Mathematical Physics</i> , 1982, 83, 493-515.	2.2	125
6	Antiferromagnetic Potts models. <i>Physical Review Letters</i> , 1989, 63, 109-112.	7.8	116
7	Three-state antiferromagnetic Potts models: A Monte Carlo study. <i>Physical Review B</i> , 1990, 42, 2465-2474.	3.2	108
8	On the formation/dissolution of equilibrium droplets. <i>Europhysics Letters</i> , 2002, 60, 21-27.	2.0	86
9	Does the Roughness of the Substrate Enhance Wetting?. <i>Physical Review Letters</i> , 1995, 74, 2292-2294.	7.8	78
10	The analysis of the Widom-Rowlinson model by stochastic geometric methods. <i>Communications in Mathematical Physics</i> , 1995, 172, 551-569.	2.2	73
11	General Theory of Lee-Yang Zeros in Models with First-Order Phase Transitions. <i>Physical Review Letters</i> , 2000, 84, 4794-4797.	7.8	61
12	Critical Region for Droplet Formation in the Two-Dimensional Ising Model. <i>Communications in Mathematical Physics</i> , 2003, 242, 137-183.	2.2	50
13	Droplet dynamics for asymmetric Ising model. <i>Journal of Statistical Physics</i> , 1993, 70, 1121-1148.	1.2	49
14	Low temperature phase diagrams for quantum perturbations of classical spin systems. <i>Communications in Mathematical Physics</i> , 1996, 181, 409-446.	2.2	45
15	Surface-induced finite-size effects for first-order phase transitions. <i>Journal of Statistical Physics</i> , 1995, 79, 43-115.	1.2	37
16	Phase coexistence of gradient Gibbs states. <i>Probability Theory and Related Fields</i> , 2007, 139, 1-39.	1.8	37
17	Shapes of growing droplets – A model of escape from a metastable phase. <i>Journal of Statistical Physics</i> , 1994, 75, 409-506.	1.2	33
18	Rigid interfaces for lattice models at low temperatures. <i>Journal of Statistical Physics</i> , 1988, 50, 755-812.	1.2	31

#	ARTICLE	IF	CITATIONS
19	Coarse-graining approach to first-order phase transitions. <i>Journal of Statistical Physics</i> , 1987, 47, 701-724.	1.2	28
20	Pathological behavior of renormalization-group maps at high fields and above the transition temperature. <i>Journal of Statistical Physics</i> , 1995, 79, 969-992.	1.2	26
21	Partition Function Zeros at First-Order Phase Transitions: A General Analysis. <i>Communications in Mathematical Physics</i> , 2004, 251, 79-131.	2.2	24
22	Gibbs states of graphical representations of the Potts model with external fields. <i>Journal of Mathematical Physics</i> , 2000, 41, 1170-1210.	1.1	23
23	Long-range order for antiferromagnetic Potts models. <i>Physical Review B</i> , 1985, 31, 3088-3092.	3.2	22
24	Theq-state Potts model in the standard Pirogov-Sinai theory: Surface tensions and Wilson loops. <i>Journal of Statistical Physics</i> , 1990, 58, 199-248.	1.2	22
25	Phase Transition in the Three-State Potts Antiferromagnet on the Diced Lattice. <i>Physical Review Letters</i> , 2008, 101, 030601.	7.8	22
26	Aggregation and intermediate phases in dilute spin systems. <i>Communications in Mathematical Physics</i> , 1995, 171, 203-232.	2.2	21
27	Partition Function Zeros at First-Order Phase Transitions: Pirogovâ€Sinai Theory. <i>Journal of Statistical Physics</i> , 2004, 116, 97-155.	1.2	20
28	Conformally covariant field equations I. first-order equations with non-vanishing mass. <i>European Physical Journal D</i> , 1975, 25, 123-149.	0.4	19
29	Effective Interactions Due to Quantum Fluctuations. <i>Communications in Mathematical Physics</i> , 1999, 206, 289-335.	2.2	19
30	The staggered charge-order phase of the extended Hubbard model in the atomic limit. <i>Journal of Physics A</i> , 1996, 29, 733-747.	1.6	18
31	Surface Tension and the Ornsteinâ€Zernike Behaviour for the 2D Blumeâ€Capel Model. <i>Journal of Statistical Physics</i> , 2002, 106, 431-476.	1.2	15
32	A Proof of the Gibbsâ€Thomson Formula in the Droplet Formation Regime. <i>Journal of Statistical Physics</i> , 2004, 116, 175-203.	1.2	14
33	Two-dimensional Potts antiferromagnets with a phase transition at arbitrarily largeq. <i>Physical Review E</i> , 2013, 87, 012136.	2.1	14
34	Equilibrium shapes of crystals attached to walls. <i>Journal of Statistical Physics</i> , 1994, 76, 419-445.	1.2	13
35	Staggered Phases in Diluted Systems with Continuous Spins. <i>Communications in Mathematical Physics</i> , 1997, 189, 631-640.	2.2	13
36	Finite-Size Effects for the Potts Model with Weak Boundary Conditions. <i>Journal of Statistical Physics</i> , 2002, 109, 67-131.	1.2	12

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37	Finite range decomposition for families of gradient Gaussian measures. Journal of Functional Analysis, 2013, 264, 169-206.	1.4	12
38	Entropy-Driven Phase Transition in Low-Temperature Antiferromagnetic Potts Models. Communications in Mathematical Physics, 2014, 330, 1339-1394.	2.2	12
39	The random interchange process on the hypercube. Electronic Communications in Probability, 2016, 21, .	0.4	11
40	Mean field approximation is exact in the many-component limit of potts lattice gauge model. Communications in Mathematical Physics, 1981, 82, 391-397.	2.2	10
41	A microscopic justification of the Wulff construction. Journal of Statistical Physics, 1993, 72, 1-14.	1.2	10
42	Finite-Size Scaling for the 2D Ising Model with Minus Boundary Conditions. Journal of Statistical Physics, 2001, 104, 905-943.	1.2	10
43	Forbidden Gap Argument for Phase Transitions Proved by Means of Chessboard Estimates. Communications in Mathematical Physics, 2006, 264, 631-656.	2.2	10
44	Phase Diagram of Horizontally Invariant Gibbs States for Lattice Models. Annales Henri Poincare, 2002, 3, 203-267.	1.7	8
45	Roughening transition for the Ising model on a BCC lattice. A case in the theory of ground states. Journal of Statistical Physics, 1987, 47, 773-799.	1.2	7
46	SOS approximants for Potts crystal shapes. Physica A: Statistical Mechanics and Its Applications, 1992, 189, 616-634.	2.6	7
47	Finite-size scaling for first-order phase transitions (rigorous results). Physica A: Statistical Mechanics and Its Applications, 1993, 194, 128-136.	2.6	7
48	Interfaces for Random Cluster Models. Journal of Statistical Physics, 2003, 111, 73-106.	1.2	7
49	Renormalization of nonperturbative functional integral for independent value models. Letters in Mathematical Physics, 1977, 2, 21-25.	1.1	6
50	Low Temperature Phase Diagrams of Fermionic Lattice Systems. Communications in Mathematical Physics, 2000, 208, 575-604.	2.2	6
51	Nonlinear Elastic Free Energies and Gradient Young-Gibbs Measures. Communications in Mathematical Physics, 2014, 326, 887-917.	2.2	6
52	Title is missing!. Journal of Statistical Physics, 1999, 94, 299-320.	1.2	6
53	Coexistence of Partially Disordered/Ordered Phases in an Extended Potts Model. Journal of Statistical Physics, 2000, 99, 1169-1206.	1.2	5
54	Planar and lamellar antiferromagnetism in Hubbard models. Journal of Physics A, 2000, 33, 7857-7871.	1.6	5

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55	True nature of long-range order in a plaquette orbital model. Journal of Statistical Mechanics: Theory and Experiment, 2010, 2010, P11001.	2.3	5
56	Nonperturbative renormalizability for a class of gradient-free models. Physical Review D, 1978, 18, 2187-2192.	4.7	4
57	Comment on: "Theory of the evaporation/condensation transition of equilibrium droplets in finite volumes" Physica A: Statistical Mechanics and Its Applications, 2003, 327, 583-588.	2.6	4
58	Model with roughening transition at low temperatures. Physical Review B, 1986, 34, 2049-2051.	3.2	2
59	A spin-1 lattice model of microemulsions at low temperatures. Journal of Physics A, 1993, 26, 5285-5293.	1.6	2
60	Intermediate phase for a classical continuum model. Physical Review B, 1996, 54, 9221-9224.	3.2	2
61	The use of projective limits in classical statistical mechanics and Euclidean quantum field theory. European Physical Journal D, 1980, 30, 23-32.	0.4	1
62	Staggered Long-Range Order for Diluted Quantum Spin Models. Journal of Statistical Physics, 2019, 175, 972-986.	1.2	0