Roman KoteckÃ½

List of Publications by Year
in descending order

62	2,196	304701	223791
papers	citations	22 h-index	46 g-index

63	63	63	723
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Staggered Long-Range Order for Diluted Quantum Spin Models. Journal of Statistical Physics, 2019, 175, 972-986.	1.2	0
2	The random interchange process on the hypercube. Electronic Communications in Probability, 2016, 21, .	0.4	11
3	Nonlinear Elastic Free Energies and Gradient Young-Gibbs Measures. Communications in Mathematical Physics, 2014, 326, 887-917.	2.2	6
4	Entropy-Driven Phase Transition in Low-Temperature Antiferromagnetic Potts Models. Communications in Mathematical Physics, 2014, 330, 1339-1394.	2.2	12
5	Finite range decomposition for families of gradient Gaussian measures. Journal of Functional Analysis, 2013, 264, 169-206.	1.4	12
6	Two-dimensional Potts antiferromagnets with a phase transition at arbitrarily largeq. Physical Review E, 2013, 87, 012136.	2.1	14
7	True nature of long-range order in a plaquette orbital model. Journal of Statistical Mechanics: Theory and Experiment, 2010, 2010, P11001.	2.3	5
8	Phase Transition in the Three-State Potts Antiferromagnet on the Diced Lattice. Physical Review Letters, 2008, 101, 030601.	7.8	22
9	Phase coexistence of gradient Gibbs states. Probability Theory and Related Fields, 2007, 139, 1-39.	1.8	37
10	Forbidden Gap Argument for Phase Transitions Proved by Means of Chessboard Estimates. Communications in Mathematical Physics, 2006, 264, 631-656.	2.2	10
11	A Proof of the Gibbsâ€“Thomson Formula in the Droplet Formation Regime. Journal of Statistical Physics, 2004, 116, 175-203.	1.2	14
12	Partition Function Zeros at First-Order Phase Transitions: Pirogovâ€“Sinai Theory. Journal of Statistical Physics, 2004, 116, 97-155.	1.2	20
13	Partition Function Zeros at First-Order Phase Transitions: A General Analysis. Communications in Mathematical Physics, 2004, 251, 79-131.	2.2	24
14	Interfaces for Random Cluster Models. Journal of Statistical Physics, 2003, 111, 73-106.	1.2	7
15	Critical Region for Droplet Formation in the Two-Dimensional Ising Model. Communications in Mathematical Physics, 2003, 242, 137-183.	2.2	50
16	Comment on: â€œTheory of the evaporation/condensation transition of equilibrium droplets in finite volumesâ€• Physica A: Statistical Mechanics and Its Applications, 2003, 327, 583-588.	2.6	4
17	On the formation/dissolution of equilibrium droplets. Europhysics Letters, 2002, 60, 21-27.	2.0	86
18	Phase Diagram of Horizontally Invariant Gibbs States for Lattice Models. Annales Henri Poincare, 2002, 3, 203-267.	1.7	8

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19	Surface Tension and the Ornsteinâ€“Zernike Behaviour for the 2D Blumeâ€“Capel Model. Journal of Statistical Physics, 2002, 106, 431-476.	1.2	15
20	Finite-Size Effects for the Potts Model with Weak Boundary Conditions. Journal of Statistical Physics, 2002, 109, 67-131.	1.2	12
21	Finite-Size Scaling for the 2D Ising Model with Minus Boundary Conditions. Journal of Statistical Physics, 2001, 104, 905-943.	1.2	10
22	Coexistence of Partially Disordered/Ordered Phases in an Extended Potts Model. Journal of Statistical Physics, 2000, 99, 1169-1206.	1.2	5
23	Low Temperature Phase DiagramsÂ¶of Fermionic Lattice Systems. Communications in Mathematical Physics, 2000, 208, 575-604.	2.2	6
24	Planar and lamellar antiferromagnetism in Hubbard models. Journal of Physics A, 2000, 33, 7857-7871.	1.6	5
25	Gibbs states of graphical representations of the Potts model with external fields. Journal of Mathematical Physics, 2000, 41, 1170-1210.	1.1	23
26	General Theory of Lee-Yang Zeros in Models with First-Order Phase Transitions. Physical Review Letters, 2000, 84, 4794-4797.	7.8	61
27	Effective Interactions Due to Quantum Fluctuations. Communications in Mathematical Physics, 1999, 206, 289-335.	2.2	19
28	Title is missing!. Journal of Statistical Physics, 1999, 94, 299-320.	1.2	6
29	Staggered Phases in Diluted Systems with Continuous Spins. Communications in Mathematical Physics, 1997, 189, 631-640.	2.2	13
30	Low temperature phase diagrams for quantum perturbations of classical spin systems. Communications in Mathematical Physics, 1996, 181, 409-446.	2.2	45
31	Intermediate phase for a classical continuum model. Physical Review B, 1996, 54, 9221-9224.	3.2	2
32	The staggered charge-order phase of the extended Hubbard model in the atomic limit. Journal of Physics A, 1996, 29, 733-747.	1.6	18
33	Surface-induced finite-size effects for first-order phase transitions. Journal of Statistical Physics, 1995, 79, 43-115.	1.2	37
34	Pathological behavior of renormalization-group maps at high fields and above the transition temeprature. Journal of Statistical Physics, 1995, 79, 969-992.	1.2	26
35	The analysis of the Widom-Rowlinson model by stochastic geometric methods. Communications in Mathematical Physics, 1995, 172, 551-569.	2.2	73
36	Aggregation and intermediate phases in dilute spin systems. Communications in Mathematical Physics, 1995, 171, 203-232.	2.2	21

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37	Does the Roughness of the Substrate Enhance Wetting?. Physical Review Letters, 1995, 74, 2292-2294.	7.8	78
38	Shapes of growing dropletsâ€"A model of escape from a metastable phase. Journal of Statistical Physics, 1994, 75, 409-506.	1.2	33
39	Equilibrium shapes of crystals attached to walls. Journal of Statistical Physics, 1994, 76, 419-445.	1.2	13
40	Finite-size scaling for first-order phase transitions (rigorous results). Physica A: Statistical Mechanics and Its Applications, 1993, 194, 128-136.	2.6	7
41	A microscopic justification of the Wulff construction. Journal of Statistical Physics, 1993, 72, 1-14.	1.2	10
42	Droplet dynamics for asymmetric Ising model. Journal of Statistical Physics, 1993, 70, 1121-1148.	1.2	49
43	A spin-1 lattice model of microemulsions at low temperatures. Journal of Physics A, 1993, 26, 5285-5293.	1.6	2
44	Finite-size effects at asymmetric first-order phase transitions. Physical Review Letters, 1992, 68, 1734-1737.	7.8	134
45	SOS approximants for Potts crystal shapes. Physica A: Statistical Mechanics and Its Applications, 1992, 189, 616-634.	2.6	7
46	Finite-size scaling for Potts models. Journal of Statistical Physics, 1991, 62, 529-551.	1.2	126
47	A rigorous theory of finite-size scaling at first-order phase transitions. Journal of Statistical Physics, 1990, 61, 79-119.	1.2	260
48	Theq-state Potts model in the standard Pirogov-Sinai theory: Surface tensions and Wilson loops. Journal of Statistical Physics, 1990, 58, 199-248.	1.2	22
49	Three-state antiferromagnetic Potts models: A Monte Carlo study. Physical Review B, 1990, 42, 2465-2474.	3.2	108
50	Antiferromagnetic Potts models. Physical Review Letters, 1989, 63, 109-112.	7.8	116
51	Rigid interfaces for lattice models at low temperatures. Journal of Statistical Physics, 1988, 50, 755-812.	1.2	31
52	Coarse-graining approach to first-order phase transitions. Journal of Statistical Physics, 1987, 47, 701-724.	1.2	28
53	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
54	Cluster expansion for abstract polymer models. Communications in Mathematical Physics, 1986, 103, 491-498.	2.2	234

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55	Model with roughening transition at low temperatures. Physical Review B, 1986, 34, 2049-2051.	3.2	2
56	Long-range order for antiferromagnetic Potts models. Physical Review B, 1985, 31, 3088-3092.	3.2	22
57	First-order phase transitions in large entropy lattice models. Communications in Mathematical Physics, 1982, 83, 493-515.	2.2	125
58	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
59	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
60	Nonperturbative renormalizability for a class of gradient-free models. Physical Review D, 1978, 18, 2187-2192.	4.7	4
61	Renormalization of nonperturbative functional integral for independent value models. Letters in Mathematical Physics, 1977, 2, 21-25.	1.1	6
62	Conformally covariant field equations I. first-order equations with non-vanishing mass. European Physical Journal D, 1975, 25, 123-149.	0.4	19