A J Bray

List of Publications by Year
in descending order

155 papers	9,379 citations	34493 54 h-index	46524 93 g-index
155 all docs	155 docs citations	155 times ranked	3265 citing authors

#	Article	IF	Citations
1	Disappearance of the de Almeida-Thouless line in six dimensions. Physical Review B, 2011, 83, .	1.1	64
2	Exact results for two-dimensional coarsening. European Physical Journal B, 2008, 64, 403-407.	0.6	2
3	Mechanism for the failure of the Edwards hypothesis in the Sherrington-Kirkpatrick spin glass. Physical Review B, 2006, 74, .	1.1	22
4	Free-energy landscapes, dynamics, and the edge of chaos in mean-field models of spin glasses. Physical Review B, 2006, 74, .	1.1	19
5	Persistence in systems with conserved order parameter. Journal of Physics A, 2005, 38, 1427-1440.	1.6	3
6	Complexity of Ising Spin Glasses. Physical Review Letters, 2004, 92, 087203.	2.9	57
7	Coarsening dynamics of phase-separating systems. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2003, 361, 781-792.	1.6	58
8	On the use of finite-size scaling to measure spin-glass exponents. Journal of Physics A, 2003, 36, 5699-5706.	1.6	2
9	Fraction of uninfected walkers in the one-dimensional Potts model. Physical Review E, 2002, 65, 051114.	0.8	12
10	Aspect-Ratio Scaling and the Stiffness Exponent $\hat{I}$ for Ising Spin Glasses. Physical Review Letters, 2002, 88, 077201.	2.9	72
11	Uninfected random walkers in one dimension. Physical Review E, 2002, 65, 051113.	0.8	6
12	Why Temperature Chaos in Spin Glasses Is Hard to Observe. Physical Review Letters, 2002, 89, 197202.	2.9	39
13	Theory of phase-ordering kinetics. Advances in Physics, 2002, 51, 481-587.	35.9	498
14	Title is missing!. Journal of Statistical Physics, 2002, 106, 853-854.	0.5	0
15	Kinetics of phase ordering in the O(n) model with a conserved order parameter. Journal of Physics A, 2001, 34, 3985-4002.	1.6	9
16	Spatial Persistence of Fluctuating Interfaces. Physical Review Letters, 2001, 86, 3700-3703.	2.9	71
17	Persistence in the one-dimensional $A+B†â^…$ reaction-diffusion model. Physical Review E, 2001, 64, 041105.	0.8	14
18	Interface fluctuations under shear. Physical Review E, 2001, 64, 012102.	0.8	14

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19	Breakdown of Scaling in the Nonequilibrium Critical Dynamics of the Two-DimensionalXYModel. Physical Review Letters, 2000, 84, 1503-1506.	2.9	85
20	Random walks in logarithmic and power-law potentials, nonuniversal persistence, and vortex dynamics in the two-dimensionalXYmodel. Physical Review E, 2000, 62, 103-112.	0.8	78
21	Unusual dynamical scaling in the spatial distribution of persistent sites in one-dimensional Potts models. Physical Review E, 2000, 62, 3366-3375.	0.8	19
22	Corrections to scaling in the phase-ordering dynamics of a vector order parameter. Physical Review E, 1999, 60, 1181-1188.	0.8	2
23	Bokilet al.Reply:. Physical Review Letters, 1999, 82, 5177-5177.	2.9	11
24	Phase-ordering dynamics with an order-parameter-dependent mobility: The large-nlimit. Physical Review E, 1999, 59, 213-217.	0.8	15
25	Survival-time distribution for inelastic collapse. Physical Review E, 1999, 59, R4721-R4724.	0.8	23
26	Dynamics of Phase Separation under Shear: A Soluble Model. Physical Review Letters, 1999, 83, 3856-3859.	2.9	29
27	Defect relaxation and coarsening exponents. Physical Review E, 1998, 58, 1508-1513.	0.8	17
28	Mixed phases in U(N) superconductivity. Physical Review B, 1998, 58, 936-943.	1.1	15
29	Corrections to scaling in phase-ordering kinetics. Physical Review E, 1998, 57, 1370-1376.	0.8	4
30	Persistence exponents for fluctuating interfaces. Physical Review E, 1997, 56, 2702-2712.	0.8	184
31	Velocity distribution of topological defects in phase-ordering systems. Physical Review E, 1997, 55, 5297-5301.	0.8	27
32	Scaling of the random-field Ising model at zero temperature. Europhysics Letters, 1997, 38, 273-278.	0.7	50
33	Dimensional crossover in the large-N limit. Journal of Statistical Physics, 1997, 87, 273-291.	0.5	3
34	Strong-coupling behaviour in discrete Kardar - Parisi - Zhang equations. Journal of Physics A, 1996, 29, 7917-7928.	1.6	35
35	Soluble Infinite-Range Model of Kinetic Roughening. Physical Review Letters, 1996, 76, 2750-2753.	2.9	23
36	Structure factor tail for the ordering kinetics of nonconserved systems without topological defects. Physical Review E, 1996, 53, 4686-4695.	0.8	2

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37	Global Persistence Exponent for Nonequilibrium Critical Dynamics. Physical Review Letters, 1996, 77, 3704-3707.	2.9	147
38	Gaussian approach for phase ordering in nonconserved scalar systems with long-range interactions. Physical Review E, 1995, 51, 204-211.	0.8	0
39	Energy-scaling approach to phase-ordering growth laws. Physical Review E, 1995, 51, 5499-5514.	0.8	75
40	Exact exponent λ of the autocorrelation function for a soluble model of coarsening. Physical Review E, 1995, 51, R1633-R1636.	0.8	39
41	Ordering kinetics of conservedXYmodels. Physical Review E, 1995, 52, 4699-4703.	0.8	19
42	Unwinding Scaling Violations in Phase Ordering. Physical Review Letters, 1995, 74, 3836-3839.	2.9	20
43	Phase-ordering dynamics of systems with a conserved vector order parameter. Physical Review E, 1995, 51, 188-197.	0.8	12
44	Phase-ordering kinetics with external fields and biased initial conditions. Physical Review E, 1995, 52, 6082-6100.	0.8	8
45	Phase ordering of two-dimensionalXYsystems below the Kosterlitz-Thouless transition temperature. Physical Review E, 1995, 51, R1641-R1644.	0.8	29
46	Lifshitz-Slyozov scaling for late-stage coarsening with an order-parameter-dependent mobility. Physical Review B, 1995, 52, R685-R688.	1.1	49
47	Topological Defects and Phase Ordering Dynamics. NATO ASI Series Series B: Physics, 1995, , 105-138.	0.2	1
48	Non-trivial exponents in the zero temperature dynamics of the 1D Ising and Potts models. Journal of Physics A, 1994, 27, L357-L361.	1.6	216
49	Asymptotic linearization of the Fisher equation for a class of initial conditions. Journal of Physics A, 1994, 27, 453-460.	1.6	3
50	Phase ordering dynamics of cosmological models. Physical Review E, 1994, 50, 2523-2537.	0.8	9
51	Phase-ordering dynamics of the O(n) model: Exact predictions and numerical results. Physical Review E, 1994, 49, 4925-4937.	0.8	39
52	Phase-ordering kinetics of one-dimensional nonconserved scalar systems. Physical Review E, 1994, 50, 1900-1911.	0.8	59
53	Non-Trivial Algebraic Decay in a Soluble Model of Coarsening. Europhysics Letters, 1994, 27, 175-180.	0.7	134
54	Generalizations of the Kardar-Parisi-Zhang equation. Physical Review Letters, 1994, 72, 2041-2044.	2.9	93

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55	Growth laws for phase ordering. Physical Review E, 1994, 49, R27-R30.	0.8	110
56	A soluble model of domain growth in one-dimensional disordered systems. Journal of Physics A, 1993, 26, 5237-5254.	1.6	4
57	Dynamic correlations in phase ordering: the 1/n-expansion reconsidered. Journal of Physics A, 1993, 26, 1571-1588.	1.6	17
58	Universal amplitudes of power-law tails in the asymptotic structure factor of systems with topological defects. Physical Review E, 1993, 47, R9-R12.	0.8	37
59	Topological defects, correlation functions, and power-law tails in phase-ordering kinetics. Physical Review E, 1993, 47, 228-235.	0.8	27
60	Domain-growth scaling in systems with long-range interactions. Physical Review E, 1993, 47, 3191-3195.	0.8	34
61	Towards a systematic calculation of the scaling functions for the ordering kinetics of nonconserved fields. Physical Review E, 1993, 48, R1609-R1612.	0.8	38
62	Absolute test for theories of phase-ordering dynamics. Physical Review E, 1993, 48, 2476-2480.	0.8	25
63	Structure factor for phase ordering in nematic liquid crystals. Physical Review E, 1993, 47, R2261-R2264.	0.8	19
64	Domain Growth and Coarsening. , 1993, , 405-436.		3
65	Phase ordering from off-critical quenches and the measurement of the dynamic exponent lambda. Journal of Physics A, 1992, 25, 31-45.	1.6	18
66	Phase ordering dynamics of a vector order parameter. Journal of Physics A, 1992, 25, 2191-2207.	1.6	46
67	Dynamic exponent of the 3D Ising spin glass. Journal of Physics A, 1992, 25, L733-L738.	1.6	36
68	Scaling functions in phase-ordering dynamics: A comparison of theory and simulations. Physical Review B, 1992, 46, 10594-10599.	1.1	14
69	Phase-ordering dynamics of nematic liquid crystals. Physical Review A, 1992, 46, R6154-R6157.	1.0	40
70	Scaling and multiscaling in the ordering kinetics of a conserved order parameter. Physical Review Letters, 1992, 68, 1559-1562.	2.9	66
71	Domain growth, directed polymers, and self-organized criticality. Physical Review A, 1992, 45, 8546-8550.	1.0	4
72	Universality class for domain growth in random magnets. Journal of Physics A, 1991, 24, L1185-L1191.	1.6	55

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73	Kinetics of ordering for correlated initial conditions. Physical Review B, 1991, 43, 3699-3702.	1.1	44
74	Comment on â€˜â€˜Critical dynamics and global conservation lawsâ€™â€™. Physical Review Letters, 1991, 66, 2048-2048.	2.9	25
75	Finite-temperature directed polymers in a random potential. Physical Review A, 1991, 44, R4782-R4785.	1.0	44
76	Zero-temperature directed polymers in a random potential. Physical Review A, 1991, 44, 2345-2351.	1.0	137
77	Asymptotic structure factor and power-law tails for phase ordering in systems with continuous symmetry. Physical Review Letters, 1991, 67, 2670-2673.	2.9	143
78	Non-equilibrium dynamics of the Ising model for T less-than/equal-toTc. Journal of Physics A, 1991, 24, 1915-1930.	1.6	100
79	Growth of order in vector spin systems; scaling and universality. Journal of Physics A, 1990, 23, 5897-5913.	1.6	44
80	New exponent for dynamic correlations in domain growth. Journal of Physics A, 1990, 23, L279-L284.	1.6	34
81	Growth of order in vector spin systems and self-organized criticality. Physical Review B, 1990, 42, 4514-4523.	1.1	76
82	Renormalization-group approach to domain-growth scaling. Physical Review B, 1990, 41, 6724-6732.	1.1	137
83	Path integrals and non-Markov processes. I. General formalism. Physical Review A, 1990, 41, 644-656.	1.0	81
84	Path integrals and non-Markov processes. II. Escape rates and stationary distributions in the weak-noise limit. Physical Review A, 1990, 41, 657-667.	1.0	67
85	Dynamic correlations in domain growth: a 1/n expansion. Journal of Physics A, 1990, 23, 4491-4507.	1.6	85
86	Universal scaling function for domain growth in the Glauber-Ising chain. Journal of Physics A, 1990, 23, L67-L72.	1.6	73
87	The influence of distant boundaries on quantum mechanical energy levels. American Journal of Physics, 1990, 58, 751-755.	0.3	29
88	Inertial effects on the escape rate of a particle driven by colored noise: An instanton approach. Journal of Statistical Physics, 1990, 59, 357-369.	0.5	12
89	Griffiths singularities in random magnets: Results for a soluble model. Physical Review B, 1989, 40, 6980-6986.	1.1	39
90	Upper and lower bounds on dynamic correlations in the Griffiths phase. Journal of Physics A, 1989, 22, L81-L85.	1.6	26

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91	Monte Carlo study of Griffiths phase dynamics in dilute ferromagnets. Journal of Physics A, 1989, 22, 2505-2520.	1.6	20
92	Exact renormalization-group results for domain-growth scaling in spinodal decomposition. Physical Review Letters, 1989, 62, 2841-2844.	2.9	169
93	Instanton Calculation of the Escape Rate for Activation over a Potential Barrier Driven by Colored Noise. Physical Review Letters, 1989, 62, 493-496.	2.9	112
94	Griffiths Singularities and the Dynamics of Random Systems. Springer Series in Synergetics, 1989, , 149-156.	0.2	1
95	Density of states of a sparse random matrix. Physical Review B, 1988, 37, 3557-3562.	1.1	137
96	Dynamics of dilute magnets above Tc. Physical Review Letters, 1988, 60, 720-723.	2.9	88
97	Diffusion in a sparsely connected space: A model for glassy relaxation. Physical Review B, 1988, 38, 11461-11470.	1.1	90
98	Dynamics of random ising ferromagnets in the griffiths phase. Physical Review B, 1988, 38, 9252-9254.	1.1	22
99	Dynamic correlation functions for dilute magnets above Tc. Journal of Physics C: Solid State Physics, 1988, 21, L243-L248.	1.5	10
100	Critical behaviour of Dyson's hierarchical model with a random field. Journal of Physics A, 1988, 21, 2177-2185.	1.6	16
101	Spin-wave gap in uniaxial spin glasses. Physical Review B, 1987, 35, 4850-4853.	1.1	1
102	Chaotic Nature of the Spin-Glass Phase. Physical Review Letters, 1987, 58, 57-60.	2.9	417
103	Scaling theory of the ordered phase of spin glasses. Lecture Notes in Physics, 1987, , 121-153.	0.3	41
104	Nature of the Griffiths phase. Physical Review Letters, 1987, 59, 586-589.	2.9	312
105	Zero-temperature critical behaviour of vector spin glasses. Journal of Physics C: Solid State Physics, 1986, 19, 1157-1171.	1.5	130
106	Long-range random-field models: scaling theory and 1/n expansion. Journal of Physics C: Solid State Physics, 1986, 19, 6225-6239.	1.5	23
107	On the 'naive' mean-field equations for spin glasses. Journal of Physics C: Solid State Physics, 1986, 19, 6389-6406.	1.5	23
108	The Random Field Ising Model: beyond Supersymmetry. Europhysics Letters, 1986, 1, 427-433.	0.7	10

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109	Lower Critical Dimension of Metallic Vector Spin-Glasses. Physical Review Letters, 1986, 56, 2641-2644.	2.9	128
110	Heisenberg-Ising crossover in spin glasses. Physical Review B, 1986, 34, 6561-6563.	1.1	12
111	Finite size effects in spin glass overlap functions. Journal of Physics A, 1985, 18, L683-L688.	1.6	9
112	The nature of the spin-glass phase and finite size effects. Journal of Physics C: Solid State Physics, 1985, 18, L699-L705.	1.5	37
113	Evidence for spin-glass behaviour in the random anisotropy axis model. Journal of Physics C: Solid State Physics, 1985, 18, L139-L143.	1.5	38
114	Critical behavior of the three-dimensional Ising spin glass. Physical Review B, 1985, 31, 631-633.	1.1	129
115	Phase diagrams for dilute spin glasses. Journal of Physics C: Solid State Physics, 1985, 18, 3037-3051.	1.5	285
116	Scaling theory of the random-field Ising model. Journal of Physics C: Solid State Physics, 1985, 18, L927-L933.	1.5	188
117	Monte Carlo studies of spin glasses with nonaxial anisotropy. Journal of Physics C: Solid State Physics, 1984, 17, 1717-1723.	1.5	3
118	Weighted averages of TAP solutions and Parisi's q(x). Journal of Physics C: Solid State Physics, 1984, 17, L155-L160.	1.5	32
119	Nonanalytic magnetic field dependence of the magnetisation in spin glasses. Journal of Physics C: Solid State Physics, 1984, 17, L613-L619.	1.5	27
120	Lower critical dimension of Ising spin glasses: a numerical study. Journal of Physics C: Solid State Physics, 1984, 17, L463-L468.	1.5	326
121	Lack of self-averaging in spin glasses. Journal of Physics C: Solid State Physics, 1984, 17, L149-L154.	1.5	41
122	Upper critical dimension for the de Almeida-Thouless instability in spin glasses. Journal of Physics C: Solid State Physics, 1983, 16, L815-L818.	1.5	26
123	Phase diagrams for spin glasses with randomly mixed uniaxial anisotropies. Journal of Physics C: Solid State Physics, 1983, 16, 6817-6834.	1.5	12
124	Phase diagrams for anisotropic spin glasses. Journal of Physics C: Solid State Physics, 1983, 16, 4679-4692.	1.5	15
125	Low-temperature behaviour of the random-field Ising model. Journal of Physics C: Solid State Physics, 1983, 16, 5875-5892.	1.5	5
126	Is there an ordering field for spin glasses?. Journal of Physics C: Solid State Physics, 1982, 15, L57-L63.	1.5	6

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127	Critical behaviour at the spin glass transition in a magnetic field. Journal of Physics C: Solid State Physics, 1982, 15, L301-L304.	1.5	16
128	Phase diagram for spin glasses with uniaxial anisotropy. Journal of Physics C: Solid State Physics, 1982, 15, L527-L531.	1.5	54
129	Spin glasses: the hole story. Journal of Physics C: Solid State Physics, 1982, 15, 2417-2440.	1.5	35
130	Is mean-field theory valid for spin glasses?. Journal of Physics C: Solid State Physics, 1982, 15, 3897-3905.	1.5	55
131	On the eigenvalue spectrum of the susceptibility matrix for random spin systems. Journal of Physics C: Solid State Physics, 1982, 15, L765-L771.	1.5	111
132	Dynamics of Vector Spin-Glasses. Physical Review Letters, 1981, 47, 120-124.	2.9	20
133	Metastable states in the solvable spin glass model. Journal of Physics A, 1981, 14, L377-L383.	1.6	27
134	Metastable states in spin glasses with short-ranged interactions. Journal of Physics C: Solid State Physics, 1981, 14, 1313-1327.	1.5	55
135	Metastable states, internal field distributions and magnetic excitations in spin glasses. Journal of Physics C: Solid State Physics, 1981, 14, 2629-2664.	1.5	73
136	Metastable states in spin glasses. Journal of Physics C: Solid State Physics, 1980, 13, L469-L476.	1.5	269
137	Some observations on the mean-field theory of spin glasses. Journal of Physics C: Solid State Physics, 1980, 13, 419-434.	1.5	88
138	Broken replica symmetry and metastable states in spin glasses. Journal of Physics C: Solid State Physics, 1980, 13, L907-L912.	1.5	17
139	Renormalisation-group approach to the spin glass transition in finite magnetic fields. Journal of Physics C: Solid State Physics, 1980, 13, 5405-5412.	1.5	62
140	Replica theory of quantum spin glasses. Journal of Physics C: Solid State Physics, 1980, 13, L655-L660.	1.5	217
141	Evidence for massless modes in the 'solvable model' of a spin glass. Journal of Physics C: Solid State Physics, 1979, 12, L441-L448.	1.5	128
142	Replica symmetry and massless modes in spin glasses. II. Non-Ising spins. Journal of Physics C: Solid State Physics, 1979, 12, 1349-1361.	1.5	15
143	Replica symmetry and massless modes in the Ising spin glass. Journal of Physics C: Solid State Physics, 1979, 12, 79-104.	1.5	124
144	Dynamics of Ising spin glasses. Journal of Physics C: Solid State Physics, 1979, 12, L477-L483.	1.5	14

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145	Defect energies of two-, three- and four-dimensional Ising spin glasses. Journal of Physics C: Solid State Physics, 1978, 11, L139-L142.	1.5	29
146	Critical temperature shifts for finite slabs in the $\hat{I}\mu$-expansion. Journal of Physics A, 1978, 11, 715-720.	1.6	21
147	Vanishing of the Edwards-Anderson order parameter in two- and three-dimensional Ising spin glasses. Journal of Physics C: Solid State Physics, 1978, 11, 1187-1202.	1.5	77
148	Replica-Symmetry Breaking in Spin-Glass Theories. Physical Review Letters, 1978, 41, 1068-1072.	2.9	134
149	Surface Critical Exponents in Terms of Bulk Exponents. Physical Review Letters, 1977, 38, 1046-1048.	2.9	32
150	Critical Behavior of a Semi-infinite System:n-Vector Model in the Large-nLimit. Physical Review Letters, 1977, 38, 735-738.	2.9	63
151	Critical behaviour of semi-infinite systems. Journal of Physics A, 1977, 10, 1927-1962.	1.6	272
152	Monte Carlo evidence for the absence of a phase transition in the two-dimensional Ising spin glass. Journal of Physics F: Metal Physics, 1977, 7, L333-L337.	1.6	53
153	Statistical mechanics of one-dimensional Ginzburg-Landau fields: Feynman graph evaluation of the screening approximation (n-1expansion). Journal of Physics A: Mathematical Nuclear and General, 1974, 7, 2144-2151.	1.0	26
154	Fluctuations in superconductors: the screening approximation in two dimensions. Journal of Physics F: Metal Physics, 1973, 3, L134-L137.	1.6	10
155	A selfconsistent treatment of fluctuations in superconductors beyond the Hartree approximation. Journal of Physics F: Metal Physics, 1972, 2, L109-L113.	1.6	16