Giorgio Parisi

List of Publications by Year
in descending order

377 papers	34,409 citations	5574 82 h-index	3915 177 g-index
390 all docs	390 docs citations	390 times ranked	10835 citing authors

#	Article	IF	Citations
1	Delocalization transition in low energy excitation modes of vector spin glasses. SciPost Physics, 2022, 12, .	4.9	7
2	Unexpected Upper Critical Dimension for Spin Glass Models in a Field Predicted by the Loop Expansion around the Bethe Solution at Zero Temperature. Physical Review Letters, 2022, 128, 075702.	7.8	5
3	Numerical test of the replica-symmetric Hamiltonian for correlations of the critical state of spin glasses in a field. Physical Review E, 2022, 105, .	2.1	2
4	Correlation functions of the anharmonic oscillator: Numerical verification of two-loop corrections to the large-order behavior. Physical Review D, 2022, 105, .	4.7	1
5	Inferring the particle-wise dynamics of amorphous solids from the local structure at the jamming point. Soft Matter, 2021, 17, 1056-1083.	2.7	5
6	Spin-glass dynamics in the presence of a magnetic field: exploration of microscopic properties. Journal of Statistical Mechanics: Theory and Experiment, 2021, 2021, 033301.	2.3	10
7	Criticality and conformality in the random dimer model. Physical Review E, 2021, 103, 042127.	2.1	3
8	Quantum jamming: Critical properties of a quantum mechanical perceptron. Physical Review A, 2021, 103, .	2.5	4
9	Temperature chaos is present in off-equilibrium spin-glass dynamics. Communications Physics, 2021, 4, .	5.3	13
10	Optical computation of a spin glass dynamics with tunable complexity. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	16
11	Finite-size effects in the microscopic critical properties of jammed configurations: A comprehensive study of the effects of different types of disorder. Physical Review E, 2021, 104, 014102.	2.1	11
12	Long-Range Anomalous Decay of the Correlation in Jammed Packings. Physical Review Letters, 2021, 127, 038001.	7.8	21
13	Infinite-Dimensional Models in Statistical Physics. , 2020, , 1-36.		0
14	Atomic Liquids in Infinite Dimensions: Thermodynamics. , 2020, , 37-66.		0
15	Atomic Liquids in Infinite Dimensions: Equilibrium Dynamics. , 2020, , 67-98.		0
16	Thermodynamics of Glass States. , 2020, , 99-139.		0
17	Replica Symmetry Breaking and Hierarchical Free Energy Landscapes. , 2020, , 140-179.		0
18	The Gardner Transition. , 2020, , 180-198.		0

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19	Counting Glass States: The Complexity. , 2020, , 199-230.		0
20	Packing Spheres in Large Dimensions. , 2020, , 231-250.		0
21	The Jamming Transition. , 2020, , 251-289.		0
22	Rheology of the Glass. , 2020, , 290-304.		0
23	Two-loop corrections to the large-order behavior of correlation functions in the one-dimensional N -vector model. Physical Review D, 2020, 101, .	4.7	2
24	Strong ergodicity breaking in aging of mean-field spin glasses. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 17522-17527.	7.1	14
25	Loop expansion around the Bethe solution for the random magnetic field Ising ferromagnets at zero temperature. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 2268-2274.	7.1	5
26	Scaling Law Describes the Spin-Glass Response in Theory, Experiments, and Simulations. Physical Review Letters, 2020, 125, 237202.	7.8	12
27	Exploratory study of the glassy landscape near jamming. Physical Review E, 2020, 101, 052605.	2.1	12
28	Random-link matching problems on random regular graphs. Journal of Statistical Mechanics: Theory and Experiment, 2020, 2020, 033301.	2.3	4
29	Comment on â€˜Real-space renormalization-group methods for hierarchical spin glassesâ€™. Journal of Physics A: Mathematical and Theoretical, 2020, 53, 418001.	2.1	1
30	Spin Glasses in a Field Show a Phase Transition Varying the Distance among Real Replicas (And How to) Tj ETQq0 0 0 rgBT /Overlock 10	2.2	2
31	Probing the Debye spectrum in glasses using small system sizes. Physical Review Research, 2020, 2, .	3.6	5
32	The Mpemba effect in spin glasses is a persistent memory effect. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 15350-15355.	7.1	59
33	Phase diagram of bipartite entanglement. Journal of Physics A: Mathematical and Theoretical, 2019, 52, 414002.	2.1	5
34	Relation between Heterogeneous Frozen Regions in Supercooled Liquids and Non-Debye Spectrum in the Corresponding Glasses. Physical Review Letters, 2019, 123, 155502.	7.8	11
35	Fluctuations in the random-link matching problem. Physical Review E, 2019, 100, 032102.	2.1	5
36	An experiment-oriented analysis of 2D spin-glass dynamics: a twelve time-decades scaling study. Journal of Physics A: Mathematical and Theoretical, 2019, 52, 224002.	2.1	10

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37	The random field XY model on sparse random graphs shows replica symmetry breaking and marginally stable ferromagnetism. Journal of Physics A: Mathematical and Theoretical, 2019, 52, 284001.	2.1	13
38	Evidence for Supersymmetry in the Random-Field Ising Model at <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>D</mml:mi><mml:mo>=</mml:mo><mml:mn>5</mml:mn></mml:math>. Physical Review Letters, 2019, 122, 240603.	7.8	33
39	Impact of jamming criticality on low-temperature anomalies in structural glasses. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 13768-13773.	7.1	9
40	New analysis of the free energy cost of interfaces in spin glasses. Journal of Physics A: Mathematical and Theoretical, 2019, 52, 294001.	2.1	3
41	Numerical study of barriers and valleys in the free-energy landscape of spin glasses. Journal of Physics A: Mathematical and Theoretical, 2019, 52, 134002.	2.1	3
42	Support for the value 5/2 for the spin glass lower critical dimension at zero magnetic field. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 5129-5134.	7.1	19
43	Dynamic variational study of chaos: spin glasses in three dimensions. Journal of Statistical Mechanics: Theory and Experiment, 2018, 2018, 033302.	2.3	14
44	One-loop topological expansion for spin glasses in the large connectivity limit. Europhysics Letters, 2018, 121, 27001.	2.0	1
45	Out-of-equilibrium 2D Ising spin glass: almost, but not quite, a free-field theory. Journal of Statistical Mechanics: Theory and Experiment, 2018, 2018, 103301.	2.3	7
46	Configurational entropy of polydisperse supercooled liquids. Journal of Chemical Physics, 2018, 149, 154501.	3.0	26
47	Mean-field model for the density of states of jammed soft spheres. Physical Review E, 2018, 97, 062157.	2.1	23
48	Aging Rate of Spin Glasses from Simulations Matches Experiments. Physical Review Letters, 2018, 120, 267203.	7.8	29
49	Probing the non-Debye low-frequency excitations in glasses through random pinning. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 8700-8704.	7.1	46
50	Robustness of mean field theory for hard sphere models. Physical Review E, 2018, 97, 063003.	2.1	9
51	Glass and Jamming Transitions: From Exact Results to Finite-Dimensional Descriptions. Annual Review of Condensed Matter Physics, 2017, 8, 265-288.	14.5	217
52	A statics-dynamics equivalence through the fluctuationâ€“dissipation ratio provides a window into the spin-glass phase from nonequilibrium measurements. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 1838-1843.	7.1	23
53	The Marginally Stable Bethe Lattice Spin Glass Revisited. Journal of Statistical Physics, 2017, 167, 515-542.	1.2	9
54	Shear bands as manifestation of a criticality in yielding amorphous solids. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 5577-5582.	7.1	83

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55	One-loop diagrams in the random Euclidean matching problem. Physical Review E, 2017, 95, 012302.	2.1	9
56	Large-scale structure of randomly jammed spheres. Physical Review E, 2017, 95, 052125.	2.1	18
57	Two-loop corrections to large order behavior of ï† 4 theory. Nuclear Physics B, 2017, 922, 293-318.	2.5	6
58	Numerical Construction of the Aizenman-Wehr Metastate. Physical Review Letters, 2017, 119, 037203.	7.8	9
59	Optimal subgrid scheme for shell models of turbulence. Physical Review E, 2017, 95, 043108.	2.1	14
60	Loop expansion around the Bethe approximation through theM-layer construction. Journal of Statistical Mechanics: Theory and Experiment, 2017, 2017, 113303.	2.3	12
61	Entanglement critical length at the many-body localization transition. Journal of Statistical Mechanics: Theory and Experiment, 2017, 2017, 113102.	2.3	22
62	Matching Microscopic and Macroscopic Responses in Glasses. Physical Review Letters, 2017, 118, 157202.	7.8	31
63	Universality of the SAT-UNSAT (jamming) threshold in non-convex continuous constraint satisfaction problems. SciPost Physics, 2017, 2, .	4.9	78
64	Growing timescales and lengthscales characterizing vibrations of amorphous solids. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 8397-8401.	7.1	99
65	The simplest model of jamming. Journal of Physics A: Mathematical and Theoretical, 2016, 49, 145001.	2.1	83
66	Universal Non-Debye Scaling in the Density of States of Amorphous Solids. Physical Review Letters, 2016, 117, 045503.	7.8	77
67	Composite operators in cubic field theories and link-overlap fluctuations in spin-glass models. Physical Review B, 2016, 93, .	3.2	1
68	Universal critical behavior of the two-dimensional Ising spin glass. Physical Review B, 2016, 94, .	3.2	21
69	Out-of-equilibrium finite-size method for critical behavior analyses. Physical Review E, 2016, 93, 032126.	2.1	12
70	The backtracking survey propagation algorithm for solving random K-SAT problems. Nature Communications, 2016, 7, 12996.	12.8	36
71	The jamming transition in high dimension: an analytical study of the TAP equations and the effective thermodynamic potential. Journal of Statistical Mechanics: Theory and Experiment, 2016, 2016, 093301.	2.3	24
72	Temperature chaos is a non-local effect. Journal of Statistical Mechanics: Theory and Experiment, 2016, 2016, 123301.	2.3	16

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73	Quasi equilibrium construction for the long time limit of glassy dynamics. Journal of Statistical Mechanics: Theory and Experiment, 2015, 2015, P10010.	2.3	2
74	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mtext>Large</mml:mtext><mml:mtext>â^'</mml:mtext><mml:mi>N</mm theory for multipartite entanglement. Physical Review A, 2015, 92, .	2.5	3
75	Inherent structures inm-component spin glasses. Physical Review B, 2015, 91, .	3.2	6
76	Numerical estimate of the Kardar-Parisi-Zhang universality class in (2+1) dimensions. Physical Review E, 2015, 92, 010101.	2.1	54
77	Soft Modes, Localization, and Two-Level Systems in Spin Glasses. Physical Review Letters, 2015, 115, 267205.	7.8	49
78	Infinite volume extrapolation in the one-dimensional bond diluted Levy spin-glass model near its lower critical dimension. Physical Review B, 2015, 91, .	3.2	5
79	Numerical detection of the Gardner transition in a mean-field glass former. Physical Review E, 2015, 92, 012316.	2.1	43
80	Non-perturbative effects in spin glasses. Scientific Reports, 2015, 5, 8697.	3.3	5
81	Low-temperature glassy systems: Present understanding, open problems and future developments. International Journal of Modern Physics B, 2015, 29, 1530012.	2.0	0
82	Calorimetric glass transition in a mean-field theory approach. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 2361-2366.	7.1	10
83	The large-connectivity limit of bootstrap percolation. Europhysics Letters, 2015, 109, 36001.	2.0	5
84	Jamming Criticality Revealed by Removing Localized Buckling Excitations. Physical Review Letters, 2015, 114, 125504.	7.8	118
85	Cross-correlations of American baby names. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 7943-7947.	7.1	16
86	Quasi-equilibrium in glassy dynamics: a liquid theory approach. Journal of Physics A: Mathematical and Theoretical, 2015, 48, 19FT01.	2.1	11
87	Explicit generation of the branching tree of states in spin glasses. Journal of Statistical Mechanics: Theory and Experiment, 2015, 2015, P05002.	2.3	3
88	Highly optimized simulations on single- and multi-GPU systems of the 3D Ising spin glass model. Computer Physics Communications, 2015, 196, 290-303.	7.5	17
89	Universal spectrum of normal modes in low-temperature glasses. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 14539-14544.	7.1	147
90	The Crossover Region Between Long-Range and Short-Range Interactions for the Critical Exponents. Journal of Statistical Physics, 2014, 157, 855-868.	1.2	47

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91	Ergodicity: How Can It Be Broken?. Lecture Notes in Physics, 2014, , 29-70.	0.7	0
92	Diluted mean-field spin-glass models at criticality. Journal of Statistical Mechanics: Theory and Experiment, 2014, 2014, P04013.	2.3	20
93	The three-dimensional Ising spin glass in an external magnetic field: the role of the silent majority. Journal of Statistical Mechanics: Theory and Experiment, 2014, 2014, P05014.	2.3	38
94	Dynamical transition in the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>D</mml:mi><mml:mo>=</mml:mo><mml:mn>3</mml:mn></mml:mr spin glass in an external magnetic field. Physical Review E, 2014, 89, 032140.	2.1	33
95	Ensemble renormalization group for the random-field hierarchical model. Physical Review E, 2014, 89, 032132.	2.1	8
96	Spatial correlation functions and dynamical exponents in very large samples of four-dimensional spin glasses. Physical Review E, 2014, 89, 032127.	2.1	4
97	Finite-size corrections to the spectrum of regular random graphs: An analytical solution. Physical Review E, 2014, 90, 052109.	2.1	29
98	Critical exponents of the random field hierarchical model. Physical Review B, 2014, 90, .	3.2	5
99	Renormalization flow of the hierarchical Anderson model at weak disorder. Physical Review B, 2014, 89, .	3.2	5
100	Finite-size corrections to disordered Ising models on random regular graphs. Physical Review E, 2014, 90, 012146.	2.1	22
101	Exact theory of dense amorphous hard spheres in high dimension. III. The full replica symmetry breaking solution. Journal of Statistical Mechanics: Theory and Experiment, 2014, 2014, P10009.	2.3	127
102	Fractal free energy landscapes in structural glasses. Nature Communications, 2014, 5, 3725.	12.8	374
103	Anomalous finite size corrections in random field models. Journal of Statistical Mechanics: Theory and Experiment, 2014, 2014, P10025.	2.3	3
104	Relations between short-range and long-range Ising models. Physical Review E, 2014, 89, 062120.	2.1	73
105	Hopping and the Stokesâ€“Einstein relation breakdown in simple glass formers. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 15025-15030.	7.1	102
106	Liquid-glass transition in equilibrium. Physical Review E, 2014, 89, 022309.	2.1	27
107	Large deviations of correlation functions in random magnets. Physical Review B, 2014, 89, .	3.2	12
108	Scaling hypothesis for the Euclidean bipartite matching problem. Physical Review E, 2014, 90, 012118.	2.1	50

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109	Janus II: A new generation application-driven computer for spin-system simulations. Computer Physics Communications, 2014, 185, 550-559.	7.5	40
110	Temperature chaos and quenched heterogeneities. Physical Review E, 2014, 89, 032129.	2.1	2
111	Transition between localized and extended states in the hierarchical Anderson model. Physical Review B, 2013, 88, .	3.2	11
112	Multisurface coding simulations of the restricted solid-on-solid model in four dimensions. Physical Review E, 2013, 87, 010102.	2.1	27
113	Critical dynamics in glassy systems. Physical Review E, 2013, 87, 012101.	2.1	46
114	Exact Theory of Dense Amorphous Hard Spheres in High Dimension. II. The High Density Regime and the Gardner Transition. Journal of Physical Chemistry B, 2013, 117, 12979-12994.	2.6	121
115	Generalized Fluctuation-Dissipation Relation and Effective Temperature Upon Heating a Deeply Supercooled Liquid. Physical Review Letters, 2013, 110, 035701.	7.8	11
116	Jamming transition of randomly pinned systems. Soft Matter, 2013, 9, 8540.	2.7	18
117	Critical parameters of the three-dimensional Ising spin glass. Physical Review B, 2013, 88, .	3.2	82
118	Flying to the bottom. Nature Materials, 2013, 12, 94-95.	27.5	30
119	Random pinning glass model. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 2752-2757.	7.1	55
120	Quasi-equilibrium in glassy dynamics: an algebraic view. Journal of Statistical Mechanics: Theory and Experiment, 2013, 2013, P02003.	2.3	13
121	Ensemble renormalization group for disordered systems. Physical Review B, 2013, 87, .	3.2	39
122	Long-range random-field Ising model: Phase transition threshold and equivalence of short and long ranges. Physical Review B, 2013, 88, .	3.2	17
123	A note on weakly discontinuous dynamical transitions. Journal of Chemical Physics, 2013, 138, 064504.	3.0	6
124	Static replica approach to critical correlations in glassy systems. Journal of Chemical Physics, 2013, 138, 12A540.	3.0	24
125	Multi-point accelerometric detection and principal component analysis of heart sounds. Physiological Measurement, 2013, 34, L1-L9.	2.1	3
126	Critical off-equilibrium dynamics in glassy systems. Physical Review E, 2013, 87, .	2.1	5

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127	Comment on â€œEvidence of Non-Mean-Field-Like Low-Temperature Behavior in the Edwards-Anderson Spin-Glass Modelâ€• Physical Review Letters, 2013, 110, 219701.	7.8	20
128	Finite-size corrections to disordered systems on ErdÃ¶s-RÃ©nyi random graphs. Physical Review B, 2013, 88, .	3.2	20
129	Entropy-driven phase transitions of entanglement. Physical Review A, 2013, 87, .	2.5	24
130	Dimensional dependence of the Stokesâ€“Einstein relation and its violation. Journal of Chemical Physics, 2013, 139, 164502.	3.0	50
131	Temperature chaos in 3D Ising spin glasses is driven by rare events. Europhysics Letters, 2013, 103, 67003.	2.0	33
132	The Janus project: boosting spin-glass simulations using FPGAs. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 227-232.	0.4	5
133	Universality classes of critical points in constrained glasses. Journal of Statistical Mechanics: Theory and Experiment, 2013, 2013, P11012.	2.3	30
134	Glassy critical points and the random field Ising model. Journal of Statistical Mechanics: Theory and Experiment, 2013, 2013, L02001.	2.3	16
135	An FPGA-Based Supercomputer for Statistical Physics: The Weird Case of Janus. , 2013, , 481-506.		3
136	Spin Glass Simulations on the Janus Architecture: A Desperate Quest for Strong Scaling. Lecture Notes in Computer Science, 2013, , 528-537.	1.3	1
137	Spatially balanced topological interaction grants optimal cohesion in flocking models. Interface Focus, 2012, 2, 715-725.	3.0	61
138	Dynamical critical exponents for the mean-field Potts glass. Physical Review E, 2012, 85, 051504.	2.1	16
139	Critical slowing down exponents in structural glasses: Random orthogonal and related models. Physical Review B, 2012, 86, .	3.2	6
140	Critical Slowing Down Exponents of Mode Coupling Theory. Physical Review Letters, 2012, 108, 085702.	7.8	52
141	Design and Parametrical Analysis of Metamaterial Stacks in the Visible Spectral Range. Journal of Computational and Theoretical Nanoscience, 2012, 9, 448-455.	0.4	1
142	Statistical distribution of the local purity in a large quantum system. Journal of Physics A: Mathematical and Theoretical, 2012, 45, 015308.	2.1	23
143	A numerical study of the overlap probability distribution and its sample-to-sample fluctuations in a mean-field model. Philosophical Magazine, 2012, 92, 341-352.	1.6	10
144	Quantitative field theory of the glass transition. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 18725-18730.	7.1	57

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145	Thermodynamic glass transition in a spin glass without time-reversal symmetry. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 6452-6456.	7.1	54
146	Two-step relaxation next to dynamic arrest in mean-field glasses: Spherical and Ising<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>p</mml:mi></mml:math>-spin model. Physical Review B, 2012, 86, .	3.2	15
147	Replica symmetry breaking in and around six dimensions. Nuclear Physics B, 2012, 858, 293-316.	2.5	47
148	Dimensional study of the caging order parameter at the glass transition. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 13939-13943.	7.1	67
149	Reconfigurable computing for Monte Carlo simulations: Results and prospects of the Janus project. European Physical Journal: Special Topics, 2012, 210, 33-51.	2.6	21
150	Universal Microstructure and Mechanical Stability of Jammed Packings. Physical Review Letters, 2012, 109, 205501.	7.8	129
151	Exact theory of dense amorphous hard spheres in high dimension I. The free energy. Journal of Statistical Mechanics: Theory and Experiment, 2012, 2012, P10012.	2.3	104
152	Multi-GPU codes for spin systems simulations. Computer Physics Communications, 2012, 183, 1416-1421.	7.5	11
153	Propagating waves in starling, Sturnus vulgaris, flocks under predation. Animal Behaviour, 2011, 82, 759-765.	1.9	105
154	Field theory of fluctuations in glasses. European Physical Journal E, 2011, 34, 102.	1.6	92
155	Interface Energy in the Edwards-Anderson Model. Journal of Statistical Physics, 2011, 142, 1-10.	1.2	4
156	Benchmarking GPU and CPU codes for Heisenberg spin glass over-relaxation. Computer Physics Communications, 2011, 182, 1265-1271.	7.5	23
157	On the high-density expansion for Euclidean random matrices. Journal of Statistical Mechanics: Theory and Experiment, 2011, 2011, P02015.	2.3	13
158	On the solution of a â€˜solvableâ€™ model of an ideal glass of hard spheres displaying a jamming transition. Journal of Statistical Mechanics: Theory and Experiment, 2011, 2011, P03002.	2.3	14
159	Renormalization-group computation of the critical exponents of hierarchical spin glasses: Large-scale behavior and divergence of the correlation length. Physical Review E, 2011, 83, 041134.	2.1	19
160	IsingM-p-spin mean-field model for the structural glass: Continuous versus discontinuous transition. Physical Review B, 2011, 83, .	3.2	18
161	Glass Transition and Random Close Packing above Three Dimensions. Physical Review Letters, 2011, 107, 185702.	7.8	95
162	Sample-to-sample fluctuations of the overlap distributions in the three-dimensional Edwards-Anderson spin glass. Physical Review B, 2011, 84, .	3.2	17

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163	Bond diluted Levy spin-glass model and a new finite-size scaling method to determine a phase transition. Philosophical Magazine, 2011, 91, 1917-1925.	1.6	11
164	Replica Method and Finite Volume Corrections. Journal of Statistical Physics, 2010, 138, 29-39.	1.2	9
165	Classical statistical mechanics approach to multipartite entanglement. Journal of Physics A: Mathematical and Theoretical, 2010, 43, 225303.	2.1	23
166	Hierarchical Random Energy Model of a Spin Glass. Physical Review Letters, 2010, 104, 127206.	7.8	43
167	Universality and deviations in disordered systems. Physical Review B, 2010, 81, .	3.2	12
168	Phase transitions and metastability in the distribution of the bipartite entanglement of a large quantum system. Physical Review A, 2010, 81, .	2.5	47
169	Spin glasses on the hypercube. Physical Review B, 2010, 81, .	3.2	8
170	Phase-Separation Perspective on Dynamic Heterogeneities in Glass-Forming Liquids. Physical Review Letters, 2010, 105, 055703.	7.8	63
171	A note on rattlers in amorphous packings of binary mixtures of hard spheres. Journal of Chemical Physics, 2010, 132, 176101.	3.0	4
172	Scale-free correlations in starling flocks. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 11865-11870.	7.1	786
173	FROM EMPIRICAL DATA TO INTER-INDIVIDUAL INTERACTIONS: UNVEILING THE RULES OF COLLECTIVE ANIMAL BEHAVIOR. Mathematical Models and Methods in Applied Sciences, 2010, 20, 1491-1510.	3.3	81
174	Nature of the spin-glass phase at experimental length scales. Journal of Statistical Mechanics: Theory and Experiment, 2010, 2010, P06026.	2.3	70
175	Large deviations of the free energy in diluted mean-field spin-glass. Journal of Physics A: Mathematical and Theoretical, 2010, 43, 045001.	2.1	18
176	Critical behavior of three-dimensional disordered Potts models with many states. Journal of Statistical Mechanics: Theory and Experiment, 2010, 2010, P05002.	2.3	8
177	Chaos in temperature in diluted mean-field spin-glass. Journal of Physics A: Mathematical and Theoretical, 2010, 43, 235003.	2.1	11
178	Renormalization group computation of the critical exponents of hierarchical spin glasses. Physical Review E, 2010, 82, 040105.	2.1	23
179	Mean-field theory of hard sphere glasses and jamming. Reviews of Modern Physics, 2010, 82, 789-845.	45.6	575
180	Static versus Dynamic Heterogeneities in the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>D</mml:mi><mml:mo>=</mml:mo><mml:mn>3</mml:mn></mml:math>Edwards-Anderson-Ising Spin Glass. Physical Review Letters, 2010, 105, 177202.	7.8	37

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181	Critical interface: Twisting spin glasses atTc. Physical Review B, 2010, 82, .	3.2	2
182	Multipartite entanglement and frustration. New Journal of Physics, 2010, 12, 025015.	2.9	31
183	Phase diagram and large deviations in the free energy of mean-field spin glasses. Physical Review B, 2009, 79, .	3.2	28
184	Spin glass phase in the four-state three-dimensional Potts model. Physical Review B, 2009, 79, .	3.2	14
185	Ising Spin-Glass Transition in a Magnetic Field Outside the Limit of Validity of Mean-Field Theory. Physical Review Letters, 2009, 103, 267201.	7.8	65
186	Overlap interfaces in hierarchical spin-glass models. Journal of Statistical Mechanics: Theory and Experiment, 2009, 2009, P02002.	2.3	28
187	Janus: An FPGA-Based System for High-Performance Scientific Computing. Computing in Science and Engineering, 2009, 11, 48-58.	1.2	75
188	The Mean Field Theory of Spin Glasses: The Heuristic Replica Approach and Recent Rigorous Results. Letters in Mathematical Physics, 2009, 88, 255-269.	1.1	10
189	An In-Depth View of the Microscopic Dynamics of Ising Spin Glasses at Fixed Temperature. Journal of Statistical Physics, 2009, 135, 1121-1158.	1.2	83
190	Theory of Amorphous Packings of Binary Mixtures of Hard Spheres. Physical Review Letters, 2009, 102, 195701.	7.8	101
191	Statistical mechanics of multipartite entanglement. Journal of Physics A: Mathematical and Theoretical, 2009, 42, 055304.	2.1	22
192	Structure of Correlations in Three Dimensional Spin Glasses. Physical Review Letters, 2009, 103, 017201.	7.8	12
193	Nonequilibrium spin glass dynamics with Janus. , 2009, , .		1
194	A replica approach to glassy hard spheres. Journal of Statistical Mechanics: Theory and Experiment, 2009, 2009, P03026.	2.3	5
195	On the Most Compact Regular Lattices in Large Dimensions: A Statistical Mechanical Approach. Journal of Statistical Physics, 2008, 132, 207-234.	1.2	24
196	The STARFLAG handbook on collective animal behaviour: 1. Empirical methods. Animal Behaviour, 2008, 76, 217-236.	1.9	95
197	The STARFLAG handbook on collective animal behaviour: 2. Three-dimensional analysis. Animal Behaviour, 2008, 76, 237-248.	1.9	72
198	Empirical investigation of starling flocks: a benchmark study in collective animal behaviour. Animal Behaviour, 2008, 76, 201-215.	1.9	397

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