## Juan J Ruiz-Lorenzo

List of Publications by Year in descending order

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IUAN I RUIZ-I OPENZO

#	Article	IF	CITATIONS
1	Critical behavior of the three-dimensional Ising spin glass. Physical Review B, 2000, 62, 14237-14245.	3.2	217
2	Critical exponents of the three-dimensional diluted Ising model. Physical Review B, 1998, 58, 2740-2747.	3.2	202
3	Title is missing!. Journal of Statistical Physics, 2000, 98, 973-1074.	1.2	173
4	Scaling corrections: site percolation and Ising model in three dimensions. Journal of Physics A, 1999, 32, 1-13.	1.6	162
5	Numerical Evidence for Spontaneously Broken Replica Symmetry in 3D Spin Glasses. Physical Review Letters, 1996, 76, 843-846.	7.8	118
6	Violation of the fluctuation-dissipation theorem in finite-dimensional spin glasses. Journal of Physics A, 1998, 31, 2611-2620.	1.6	116
7	Phase structure of the three-dimensional Edwards-Anderson spin glass. Physical Review B, 1998, 58, 14852-14863.	3.2	97
8	Dilute One-Dimensional Spin Glasses with Power Law Decaying Interactions. Physical Review Letters, 2008, 101, 107203.	7.8	85
9	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
10	Critical parameters of the three-dimensional Ising spin glass. Physical Review B, 2013, 88, .	3.2	82
11	Nonequilibrium Spin-Glass Dynamics from Picoseconds to a Tenth of a Second. Physical Review Letters, 2008, 101, 157201.	7.8	77
12	Janus: An FPGA-Based System for High-Performance Scientific Computing. Computing in Science and Engineering, 2009, 11, 48-58.	1.2	75
13	Nature of the spin-glass phase at experimental length scales. Journal of Statistical Mechanics: Theory and Experiment, 2010, 2010, P06026.	2.3	70
14	lsing 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
15	Ising exponents in the two-dimensional site-diluted Ising model. Journal of Physics A, 1997, 30, 8379-8383.	1.6	63
16	The four-dimensional site-diluted Ising model: A finite-size scaling study. Nuclear Physics B, 1998, 512, 681-701.	2.5	60
17	Measures of critical exponents in the four-dimensional site percolation. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 400, 346-351.	4.1	59
18	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

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19	Simulating spin systems on IANUS, an FPGA-based computer. Computer Physics Communications, 2008, 178, 208-216.	7.5	57
20	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
21	Equilibrium and off-equilibrium simulations of the Gaussian spin glass. Journal of Physics A, 1996, 29, 7943-7957.	1.6	52
22	Critical properties of the Ising model on Sierpinski fractals: A finite-size scaling-analysis approach. Physical Review B, 1998, 58, 14387-14396.	3.2	50
23	Critical behavior in the site-diluted three-dimensional three-state Potts model. Physical Review B, 2000, 61, 3215-3218.	3.2	50
24	Off-equilibrium dynamics at very low temperatures in three-dimensional spin glasses. Journal of Physics A, 2000, 33, 2373-2382.	1.6	44
25	Deterministic chaos in the elastic pendulum: A simple laboratory for nonlinear dynamics. American Journal of Physics, 1992, 60, 73-79.	0.7	43
26	Weak first order transitions. The two-dimensional Potts model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 277, 485-490.	4.1	43
27	Universality in the off-equilibrium critical dynamics of the three-dimensional diluted Ising model. Physical Review E, 1999, 60, 5198-5201.	2.1	43
28	Janus II: A new generation application-driven computer for spin-system simulations. Computer Physics Communications, 2014, 185, 550-559.	7.5	40
29	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
30	Scaling above the upper critical dimension in Ising models. Physical Review B, 1996, 54, R3698-R3701.	3.2	37
31	Summability of the perturbative expansion for a zero-dimensional disordered spin model. Journal of Physics A, 2000, 33, 841-850.	1.6	37
32	Static versus Dynamic Heterogeneities in the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"&gt;<mml:mi>D</mml:mi><mml:mo>=</mml:mo><mml:mn>3</mml:mn>Edwards-An Spin Glass. Physical Review Letters, 2010, 105, 177202.</mml:math 	derson-Isir	1g <sup>37</sup>
33	First-Order Transition in a Three-Dimensional Disordered System. Physical Review Letters, 2008, 100, 057201.	7.8	33
34	Dynamics of the four-dimensional spin glass in a magnetic field. Physical Review B, 1998, 57, 13617-13623.	3.2	31
35	Matching Microscopic and Macroscopic Responses in Glasses. Physical Review Letters, 2017, 118, 157202.	7.8	31

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>2mml:mnx3x/mml:mi spin glass in an external magnetic field. Physical Review E, 2014, 89, 032140.

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37	Aging Rate of Spin Glasses from Simulations Matches Experiments. Physical Review Letters, 2018, 120, 267203.	7.8	29
38	Generalized off-equilibrium fluctuation-dissipation relations in random Ising systems. European Physical Journal B, 1999, 11, 317.	1.5	28
39	Scaling analysis of the site-diluted Ising model in two dimensions. Physical Review E, 2008, 78, 031134.	2.1	27
40	Small window overlaps are effective probes of replica symmetry breaking in three-dimensional spin glasses. Journal of Physics A, 1998, 31, L481-L487.	1.6	26
41	Numerical Evidence of a Critical Line in the 4 <i>d</i> Ising Spin Glass. Europhysics Letters, 1993, 21, 495-499.	2.0	25
42	How (super) rough is the glassy phase of a crystalline surface with a disordered substrate?. Journal of Physics A, 1995, 28, 3975-3984.	1.6	25
43	lanus: an adaptive FPGA computer. Computing in Science and Engineering, 2006, 8, 41-49.	1.2	24
44	Simulation of three-dimensional Ising spin glass model using three replicas: study of Binder cumulants. Journal of Physics A, 1996, 29, 4337-4345.	1.6	23
45	Mean field dynamical exponents in finite-dimensional Ising spin glass. Journal of Physics A, 1997, 30, 7115-7131.	1.6	23
46	Generalized off-equilibrium fluctuation-dissipation relations in random Ising systems. European Physical Journal B, 1999, 11, 317-325.	1.5	23
47	A statics-dynamics equivalence through the fluctuation–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
48	The U(1)-Higgs model: critical behaviour in the confining-Higgs region. Nuclear Physics B, 1993, 405, 574-592.	2.5	22
49	Target problem with evanescent subdiffusive traps. Physical Review E, 2006, 74, 046119.	2.1	22
50	3D spin glass and 2D ferromagneticXYmodel: a comparison. Journal of Physics A, 1997, 30, 7337-7347.	1.6	21
51	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
52	Universal critical behavior of the two-dimensional Ising spin glass. Physical Review B, 2016, 94, .	3.2	21
53	Comment on "Evidence of Non-Mean-Field-Like Low-Temperature Behavior in the Edwards-Anderson Spin-Glass Model― Physical Review Letters, 2013, 110, 219701.	7.8	20
54	Weak first-order transition in the three-dimensional site-diluted Ising antiferromagnet in a magnetic field. Physical Review B, 2007, 76, .	3.2	19

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55	The de Ahneida-Thouless line in the four dimensional Ising spin glass. Journal De Physique, I, 1993, 3, 2207-2227.	1.2	18
56	Sample-to-sample fluctuations of the overlap distributions in the three-dimensional Edwards-Anderson spin glass. Physical Review B, 2011, 84, .	3.2	17
57	Griffiths singularities in the two-dimensional diluted Ising model. Journal of Physics A, 1997, 30, 485-493.	1.6	15
58	Spin glass phase in the four-state three-dimensional Potts model. Physical Review B, 2009, 79, .	3.2	14
59	Dynamic variational study of chaos: spin glasses in three dimensions. Journal of Statistical Mechanics: Theory and Experiment, 2018, 2018, 033302.	2.3	14
60	On the four-dimensional diluted Ising model. Journal of Physics A, 1995, 28, L395-L401.	1.6	13
61	Logarithmic corrections for spin glasses, percolation and Lee-Yang singularities in six dimensions. Journal of Physics A, 1998, 31, 8773-8787.	1.6	13
62	Temperature chaos is present in off-equilibrium spin-glass dynamics. Communications Physics, 2021, 4, .	5.3	13
63	Numerical simulations of the random phase sine-Gordon model. Journal of Physics A, 1995, 28, L577-L583.	1.6	12
64	Self-averaging in the three-dimensional site diluted Heisenberg model at the critical point. Journal of Statistical Mechanics: Theory and Experiment, 2007, 2007, P06014-P06014.	2.3	12
65	Scaling Law Describes the Spin-Glass Response in Theory, Experiments, and Simulations. Physical Review Letters, 2020, 125, 237202.	7.8	12
66	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
67	Universal behavior of crystalline membranes: Crumpling transition and Poisson ratio of the flat phase. Physical Review E, 2016, 93, 022111.	2.1	11
68	Comment on "Evidence for the Droplet Picture of Spin Glasses― Physical Review Letters, 1999, 82, 5176-5176.	7.8	10
69	Numerical test of the Cardy-Jacobsen conjecture in the site-diluted Potts model in three dimensions. Physical Review B, 2012, 86, .	3.2	10
70	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
71	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
72	Study of the phase transition in the 3D Ising spin glass from out-of-equilibrium numerical simulations. Journal of Physics A, 2006, 39, 8567-8577.	1.6	9

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73	Mean field model of coagulation and annihilation reactions in a medium of quenched traps: Subdiffusion. Physical Review E, 2009, 79, 051113.	2.1	9
74	Monitoring the Solar Radius from the Royal Observatory of the Spanish Navy since 1773. Solar Physics, 2016, 291, 1599-1612.	2.5	9
75	Numerical Construction of the Aizenman-Wehr Metastate. Physical Review Letters, 2017, 119, 037203.	7.8	9
76	Critical behavior of three-dimensional disordered Potts models with many states. Journal of Statistical Mechanics: Theory and Experiment, 2010, 2010, P05002.	2.3	8
77	Off-equilibrium fluctuation-dissipation relations in the3dIsing spin glass in a magnetic field. Physical Review B, 2003, 67, .	3.2	7
78	Phase diagram of the bosonic double-exchange model. Physical Review B, 2005, 71, .	3.2	7
79	Simulations for trapping reactions with subdiffusive traps and subdiffusive particles. Journal of Physics Condensed Matter, 2007, 19, 065120.	1.8	7
80	Microcanonical finite-size scaling in second-order phase transitions with diverging specific heat. Physical Review E, 2009, 80, 051105.	2.1	7
81	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
82	Kardar–Parisi–Zhang universality class for the critical dynamics of reaction–diffusion fronts. Journal of Statistical Mechanics: Theory and Experiment, 2020, 2020, 023203.	2.3	7
83	The confining-Higgs phase transition in U(1)-Higgs LGT. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 296, 154-158.	4.1	6
84	Crossovers in the two-dimensional Ising spin glass with ferromagnetic next-nearest-neighbour interactions. Journal of Physics A, 1998, 31, 4657-4668.	1.6	6
85	The Coulomb-Higgs phase transition in Z8 and q = 8 U(1)-Higgs models. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 312, 305-309.	4.1	5
86	Proposal of a renormalization group transformation for lattice field theories. Physical Review D, 1994, 50, 5935-5943.	4.7	5
87	Phase transition in tensionless surfaces. Biophysical Chemistry, 2005, 115, 187-193.	2.8	5
88	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
89	Dimensional crossover in the aging dynamics of spin glasses in a film geometry. Physical Review B, 2019, 100, .	3.2	5
90	Tempering Dynamics and Relaxation Times in the 3D Ising Model. Journal De Physique, I, 1995, 5, 1247-1254.	1.2	5

Juan J Ruiz-Lorenzo

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91	New evidence for super-roughening in crystalline surfaces with a disordered substrate. Journal of Physics A, 1997, 30, 3771-3778.	1.6	4
92	Study of a microcanonical algorithm on the ±J spin glass model in d=3. Computer Physics Communications, 2000, 125, 210-220.	7.5	4
93	Low T dynamical properties of spin glasses smoothly extrapolate to T \$equal\$ 0. Journal of Physics A, 2002, 35, 6805-6814.	1.6	4
94	Single tensionless transition in the Laplacian roughening model. Physical Review E, 2006, 73, 015103.	2.1	4
95	Coagulation reactions in low dimensions: Revisiting subdiffusiveA+Areactions in one dimension. Physical Review E, 2009, 80, 051114.	2.1	4
96	Dynamical generation of a gauge symmetry in the double-exchange model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2003, 560, 140-148.	4.1	3
97	Site-diluted Ising model in four dimensions. Physical Review E, 2009, 80, 031135.	2.1	3
98	Universal amplitude ratios in the Ising model in three dimensions. Journal of Statistical Mechanics: Theory and Experiment, 2011, 2011, P09019.	2.3	3
99	Scaling behavior of the Heisenberg model in three dimensions. Physical Review E, 2013, 88, 062117.	2.1	3
100	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
101	Computation of the dynamic critical exponent of the three-dimensional Heisenberg model. Physical Review E, 2019, 100, 062117.	2.1	3
102	An FPGA-Based Supercomputer for Statistical Physics: The Weird Case of Janus. , 2013, , 481-506.		3
103	Spreading fronts of wetting liquid droplets: Microscopic simulations and universal fluctuations. Physical Review E, 2022, 105, .	2.1	3
104	THE COULOMB-HIGGS PHASE TRANSITION OF THE U(1)-HIGGS MODEL. International Journal of Modern Physics C, 1994, 05, 343-345.	1.7	2
105	Numerical study of the overlap Lee–Yang singularities in the three-dimensional Edwards–Anderson model. Journal of Statistical Mechanics: Theory and Experiment, 2013, 2013, P02031.	2.3	2
106	A numerical study of planar arrays of correlated spin islands. European Physical Journal B, 2016, 89, 1.	1.5	2
107	Spin Glasses in a Field Show a Phase Transition Varying the Distance among Real Replicas (And How to) Tj ETQq1	1 0,7843 2,2 	14 <sub>.</sub> rgBT /Ov
	Revisiting (logarithmic) scaling relations using renormalization group. Condensed Matter Physics.		

Revisiting (logarithmic) scaling relations using renormalization group. Condensed Matter Physics,
2017, 20, 13601.

Juan J Ruiz-Lorenzo

#	Article	IF	CITATIONS
109	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
110	Polyakov loops and finite-size effects of hadron masses in full lattice QCD. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 345, 49-54.	4.1	1
111	Finite-size scaling of the d = 4 site-diluted Ising model. Nuclear Physics, Section B, Proceedings Supplements, 1998, 63, 625-627.	0.4	1
112	Numerical simulations of the random phase sine–Gordon model and renormalization group predictions. Journal of Statistical Mechanics: Theory and Experiment, 2007, 2007, P01003-P01003.	2.3	1
113	Nonequilibrium spin glass dynamics with Janus. , 2009, , .		1
114	First Order Phase Transition in a 3D disordered system. , 2008, , .		0

114 First Order Phase Transition in a 3D disordered system. , 2008, , .