

Marco Baity-Jesi

List of Publications by Year in descending order

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Version: 2024-02-01

28
papers

703
citations

516710

16
h-index

552781

26
g-index

30
all docs

30
docs citations

30
times ranked

423
citing authors

#	ARTICLE	IF	CITATIONS
1	Critical parameters of the three-dimensional Ising spin glass. <i>Physical Review B</i> , 2013, 88, .	3.2	82
2	The Mpemba effect in spin glasses is a persistent memory effect. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 15350-15355.	7.1	59
3	Soft Modes, Localization, and Two-Level Systems in Spin Glasses. <i>Physical Review Letters</i> , 2015, 115, 267205.	7.8	49
4	Emergent SO(3) Symmetry of the Frictionless Shear Jamming Transition. <i>Journal of Statistical Physics</i> , 2017, 167, 735-748.	1.2	49
5	Jamming transition as a paradigm to understand the loss landscape of deep neural networks. <i>Physical Review E</i> , 2019, 100, 012115.	2.1	44
6	Janus II: A new generation application-driven computer for spin-system simulations. <i>Computer Physics Communications</i> , 2014, 185, 550-559.	7.5	40
7	The three-dimensional Ising spin glass in an external magnetic field: the role of the silent majority. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2014, 2014, P05014.	2.3	38
8	Matching Microscopic and Macroscopic Responses in Glasses. <i>Physical Review Letters</i> , 2017, 118, 157202.	7.8	31
9	Comparing dynamics: deep neural networks versus glassy systems. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2019, 2019, 124013.	2.3	31
10	Dynamical transition in the spin glass in an external magnetic field. <i>Physical Review E</i> , 2014, 89, 032140.	2.1	30
11	Aging Rate of Spin Glasses from Simulations Matches Experiments. <i>Physical Review Letters</i> , 2018, 120, 267203.	7.8	29
12	Phase transition in three-dimensional Heisenberg spin glasses with strong random anisotropies through a multi-GPU parallelization. <i>Physical Review B</i> , 2014, 89, .	3.2	24
13	Activated aging dynamics and effective trap model description in the random energy model. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2018, 2018, 013301.	2.3	24
14	A statics-dynamics equivalence through the fluctuation-dissipation ratio provides a window into the spin-glass phase from nonequilibrium measurements. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 1838-1843.	7.1	23
15	Reconfigurable computing for Monte Carlo simulations: Results and prospects of the Janus project. <i>European Physical Journal: Special Topics</i> , 2012, 210, 33-51.	2.6	21
16	Predicting chemical hazard across taxa through machine learning. <i>Environment International</i> , 2022, 163, 107184.	10.0	21
17	Underwater dual-magnification imaging for automated lake plankton monitoring. <i>Water Research</i> , 2021, 203, 117524.	11.3	18
18	Deep Learning Classification of Lake Zooplankton. <i>Frontiers in Microbiology</i> , 2021, 12, 746297.	3.5	14

#	ARTICLE	IF	CITATIONS
19	Activated dynamics: An intermediate model between the random energy model and the p-spin model. Physical Review E, 2018, 98, 012133.	2.1	13
20	On mean-field theories of dynamics in supercooled liquids. Journal of Chemical Physics, 2019, 151, 084503.	3.0	13
21	Temperature chaos is present in off-equilibrium spin-glass dynamics. Communications Physics, 2021, 4, .	5.3	13
22	Dynamics and Correlations among Soft Excitations in Marginally Stable Glasses. Physical Review Letters, 2015, 114, 247208.	7.8	7
23	Revisiting the concept of activation in supercooled liquids. European Physical Journal E, 2021, 44, 77.	1.6	7
24	Inherent structures in m-component spin glasses. Physical Review B, 2015, 91, .	3.2	6
25	Effective traplike activated dynamics in a continuous landscape. Physical Review E, 2020, 101, 052304.	2.1	6
26	Precursors of the spin glass transition in three dimensions. Journal of Statistical Mechanics: Theory and Experiment, 2019, 2019, 084016.	2.3	4
27	Maximum-energy records in glassy energy landscapes. Journal of Statistical Mechanics: Theory and Experiment, 2019, 2019, 093302.	2.3	4
28	Spin Glass Simulations on the Janus Architecture: A Desperate Quest for Strong Scaling. Lecture Notes in Computer Science, 2013, , 528-537.	1.3	1