

Pierluigi Contucci

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

84
papers

774
citations

15
h-index

23
g-index

90
ext. papers

841
ext. citations

2.3
avg, IF

4.36
L-index

#	Paper	IF	Citations
84	On the equivalence of Hopfield networks and Boltzmann Machines. <i>Neural Networks</i> , 2012 , 34, 1-9	9.1	74
83	Modeling society with statistical mechanics: an application to cultural contact and immigration. <i>Quality and Quantity</i> , 2007 , 41, 569-578	2.4	41
82	Spin-Glass Stochastic Stability: a Rigorous Proof. <i>Annales Henri Poincare</i> , 2005 , 6, 915-923	1.2	41
81	Multi-Species Mean Field Spin Glasses. Rigorous Results. <i>Annales Henri Poincare</i> , 2015 , 16, 691-708	1.2	36
80	PARAMETER EVALUATION OF A SIMPLE MEAN-FIELD MODEL OF SOCIAL INTERACTION. <i>Mathematical Models and Methods in Applied Sciences</i> , 2009 , 19, 1427-1439	3.5	36
79	Ultrametricity in the Edwards-Anderson model. <i>Physical Review Letters</i> , 2007 , 99, 057206	7.4	30
78	An analysis of a large dataset on immigrant integration in Spain. The statistical mechanics perspective on social action. <i>Scientific Reports</i> , 2014 , 4, 4174	4.9	29
77	The Ghirlanda-Guerra Identities. <i>Journal of Statistical Physics</i> , 2007 , 126, 917-931	1.5	28
76	PHASE TRANSITIONS IN SOCIAL SCIENCES: TWO-POPULATION MEAN FIELD THEORY. <i>International Journal of Modern Physics B</i> , 2008 , 22, 2199-2212	1.1	21
75	Scaling Limits for Multi-species Statistical Mechanics Mean-Field Models. <i>Journal of Statistical Physics</i> , 2011 , 144, 1186-1205	1.5	20
74	Overlap equivalence in the Edwards-Anderson model. <i>Physical Review Letters</i> , 2006 , 96, 217204	7.4	19
73	Toward a quantitative approach to migrants integration. <i>Europhysics Letters</i> , 2010 , 89, 68001	1.6	17
72	Thermodynamical Limit for Correlated Gaussian Random Energy Models. <i>Communications in Mathematical Physics</i> , 2003 , 236, 55-63	2	16
71	Perspectives on Spin Glasses 2012 ,		15
70	Replica equivalence in the Edwards-Anderson model. <i>Journal of Physics A</i> , 2003 , 36, 10961-10966		15
69	Annealing and Replica-Symmetry in Deep Boltzmann Machines. <i>Journal of Statistical Physics</i> , 2020 , 180, 665-677	1.5	13
68	Correlation Inequalities for Spin Glasses. <i>Annales Henri Poincare</i> , 2007 , 8, 1461-1467	1.2	13

67	Inverse problem robustness for multi-species mean-field spin models. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2013 , 46, 065001	2	12
66	A stochastic approach for quantifying immigrant integration: the Spanish test case. <i>New Journal of Physics</i> , 2014 , 16, 103034	2.9	12
65	Griffiths inequalities for the Gaussian spin glass. <i>Journal of Physics A</i> , 2004 , 37, L203-L209		12
64	Solution of the MonomerDimer Model on Locally Tree-Like Graphs. Rigorous Results. <i>Communications in Mathematical Physics</i> , 2014 , 331, 975-1003	2	11
63	Enhancing participation to health screening campaigns by group interactions. <i>Scientific Reports</i> , 2015 , 5, 9904	4.9	11
62	Correlation inequalities for quantum spin systems with quenched centered disorder. <i>Journal of Mathematical Physics</i> , 2010 , 51, 023302	1.2	11
61	Monotonicity and Thermodynamic Limit for Short Range Disordered Models. <i>Journal of Statistical Physics</i> , 2004 , 115, 581-589	1.5	11
60	Finite-Volume Excitations of the \mathbb{Z}_2 Interface in the Quantum XXZ Model. <i>Communications in Mathematical Physics</i> , 2000 , 212, 63-91	2	11
59	PATH INTEGRAL REPRESENTATION FOR INTERFACE STATES OF THE ANISOTROPIC HEISENBERG MODEL. <i>Reviews in Mathematical Physics</i> , 2000 , 12, 1325-1344	1.2	11
58	Antiferromagnetic Potts Model on the Erdős-Rényi Random Graph. <i>Communications in Mathematical Physics</i> , 2013 , 323, 517-554	2	10
57	Structure of correlations in three dimensional spin glasses. <i>Physical Review Letters</i> , 2009 , 103, 017201	7.4	9
56	A Mean-Field MonomerDimer Model with Randomness: Exact Solution and Rigorous Results. <i>Journal of Statistical Physics</i> , 2015 , 160, 1721-1732	1.5	8
55	The exact solution of a mean-field monomer-dimer model with attractive potential. <i>Europhysics Letters</i> , 2014 , 106, 10001	1.6	8
54	Stochastic Stability: A Review and Some Perspectives. <i>Journal of Statistical Physics</i> , 2010 , 138, 543-550	1.5	8
53	Complexity and Interaction: Blurring Borders between Physical, Computational, and Social Systems. <i>Lecture Notes in Computer Science</i> , 2013 , 1-10	0.9	8
52	Deep Boltzmann Machines: Rigorous Results at Arbitrary Depth. <i>Annales Henri Poincaré</i> , 2021 , 22, 2619-2642	2.4	8
51	A Diffusive Strategic Dynamics for Social Systems. <i>Journal of Statistical Physics</i> , 2010 , 139, 478-491	1.5	7
50	Surface Terms on the Nishimori Line of the Gaussian Edwards-Anderson Model. <i>Journal of Statistical Physics</i> , 2006 , 122, 303-312	1.5	7

49	THE THERMODYNAMIC LIMIT FOR FINITE DIMENSIONAL CLASSICAL AND QUANTUM DISORDERED SYSTEMS. <i>Reviews in Mathematical Physics</i> , 2004 , 16, 629-637	1.2	7
48	The low activity phase of some Dirichlet series. <i>Journal of Mathematical Physics</i> , 1996 , 37, 5458-5475	1.2	7
47	Factorization Properties in d-Dimensional Spin Glasses. Rigorous Results and Some Perspectives. <i>Journal of Statistical Physics</i> , 2013 , 151, 809-829	1.5	6
46	Stability of the spin glass phase under perturbations. <i>Europhysics Letters</i> , 2011 , 96, 17003	1.6	6
45	On the Surface Pressure for the Edwards-Anderson Model. <i>Communications in Mathematical Physics</i> , 2004 , 248, 207-216	2	6
44	Factorization properties in the three-dimensional Edwards-Anderson model. <i>Physical Review B</i> , 2005 , 72,	3.3	6
43	Egalitarianism in the rank aggregation problem: a new dimension for democracy. <i>Quality and Quantity</i> , 2016 , 50, 1185-1200	2.4	5
42	Social interaction effects on immigrant integration. <i>Palgrave Communications</i> , 2018 , 4,	5.3	5
41	Limit Theorems for Monomer-Dimer Mean-Field Models with Attractive Potential. <i>Communications in Mathematical Physics</i> , 2016 , 346, 781-799	2	5
40	Aggregation models on hypergraphs. <i>Annals of Physics</i> , 2017 , 376, 412-424	2.5	4
39	A Multi-scale Spin-Glass Mean-Field Model. <i>Communications in Mathematical Physics</i> , 2019 , 368, 1323-1344		4
38	Equilibrium and dynamics of a multi-bath Sherrington-Kirkpatrick model. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2019 , 52, 324001	2	4
37	Interaction-Flip Identities in Spin Glasses. <i>Journal of Statistical Physics</i> , 2009 , 135, 1181-1203	1.5	4
36	A Fully Magnetizing Phase Transition. <i>Journal of Statistical Physics</i> , 1999 , 97, 523-539	1.5	4
35	How integrated are immigrants?. <i>Demographic Research</i> , 33 , 1271-1280	1	4
34	The Solution of the Deep Boltzmann Machine on the Nishimori Line. <i>Communications in Mathematical Physics</i> , 2021 , 387, 1191-1214	2	4
33	Inverse problem for the mean-field monomer-dimer model with attractive interaction. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2017 , 50, 205002	2	3
32	Dilution robustness for mean field ferromagnets. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2009 , 2009, P03028	1.9	3

31	Lack of monotonicity in spin glass correlation functions. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2008 , 41, 385001	2	3
30	Stochastically Stable Quenched Measures. <i>Journal of Statistical Physics</i> , 2004 , 117, 831-844	1.5	3
29	Mean Field Behaviour of Spin Systems with Orthogonal Interaction Matrix. <i>Journal of Statistical Physics</i> , 2002 , 106, 895-914	1.5	3
28	Griffiths Inequalities in the Nishimori Line. <i>Progress of Theoretical Physics Supplement</i> , 2005 , 157, 73-76		3
27	Ferromagnetic Heisenberg XXZ chain in a pinning field. <i>Physical Review B</i> , 2002 , 66,	3.3	3
26	Spin Glass Identities and the Nishimori Line 2009 , 103-121		3
25	Non-Gaussian fluctuations in monomer-dimer models. <i>Europhysics Letters</i> , 2016 , 114, 10006	1.6	3
24	The Multi-species Mean-Field Spin-Glass on the Nishimori Line. <i>Journal of Statistical Physics</i> , 2021 , 182, 1	1.5	3
23	New perspectives in the equilibrium statistical mechanics approach to social and economic sciences 2010 , 137-174		3
22	Forecasting the integration of immigrants. <i>Journal of Mathematical Sociology</i> , 2017 , 41, 127-137	1.2	2
21	Interface Energy in the Edwards-Anderson Model. <i>Journal of Statistical Physics</i> , 2011 , 142, 1-10	1.5	2
20	Contucci et al. Reply:. <i>Physical Review Letters</i> , 2008 , 100,	7.4	2
19	CONVEX REPLICAS SYMMETRY BREAKING FROM POSITIVITY AND THERMODYNAMIC LIMIT. <i>International Journal of Modern Physics B</i> , 2004 , 18, 585-591	1.1	2
18	FINDING MINIMA IN COMPLEX LANDSCAPES: ANNEALED, GREEDY AND RELUCTANT ALGORITHMS. <i>Mathematical Models and Methods in Applied Sciences</i> , 2005 , 15, 1349-1369	3.5	2
17	Stationarization and Multithermalization in spin glasses. <i>SciPost Physics</i> , 2021 , 10,	6.1	2
16	Thermodynamic Limit for Spin Glasses. Beyond the Annealed Bound. <i>Journal of Statistical Physics</i> , 2009 , 135, 1159-1166	1.5	1
15	Polynomial invariants for trees a statistical mechanics approach. <i>Discrete Applied Mathematics</i> , 1998 , 81, 225-237	1	1
14	Interpolating greedy and reluctant algorithms. <i>Optimization Methods and Software</i> , 2005 , 20, 509-514	1.3	1

- 13 An analyticity bound for two-dimensional Ising model at low temperature. *Journal of Statistical Physics*, **1996**, 82, 1647-1657 1.5 1
- 12 On the strict inequality between quenched and annealed Ising spin glass. *Letters in Mathematical Physics*, **1993**, 27, 143-147 1.2 1
- 11 On a Statistical Mechanics Approach to Some Problems of the Social Sciences. *Frontiers in Physics*, **2020**, 8, 3.9 1
- 10 Egalitarianism vs. Utilitarianism in Preferential Voting. *Lecture Notes in Computer Science*, **2019**, 24-37 0.9 1
- 9 Finite-size corrections for the attractive mean-field monomer-dimer model. *Journal of Physics A: Mathematical and Theoretical*, **2019**, 52, 105001 2
- 8 The lack of probability culture in Italy. Toward an international comparative research program. *Quality and Quantity*, **2015**, 49, 2325-2330 2.4
- 7 Dmitry Panchenko: The Sherrington-Kirkpatrick Model. *Journal of Statistical Physics*, **2013**, 153, 551-552 1.5
- 6 Interaction flip identities for non-centered spin glasses. *Journal of Mathematical Physics*, **2013**, 54, 073301 2
- 5 Introduction to Special Issue: Statistical Mechanics on Random Structures. *Journal of Mathematical Physics*, **2008**, 49, 125101 1.2
- 4 Mean-Field Monomer-Dimer Models. A Review. *Springer Proceedings in Mathematics and Statistics*, **2019**, 39-62 0.2
- 3 Equilibria of Culture Contact Derived from In-Group and Out-Group Attitudes **2010**, 81-88
- 2 Tackling Climate Change Through Energy Efficiency: Mathematical Models to Offer Evidence-Based Recommendations for Public Policy **2010**, 131-146
- 1 Human-AI ecosystem with abrupt changes as a function of the composition. *PLoS ONE*, **2022**, 17, e0267317 3.7