

Francesco Guerra

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74
papers

2,037
citations

21
h-index

44
g-index

75
ext. papers

2,188
ext. citations

2.7
avg, IF

5.07
L-index

#	Paper	IF	Citations
74	Broken Replica Symmetry Bounds in the Mean Field Spin Glass Model. <i>Communications in Mathematical Physics</i> , 2003 , 233, 1-12	2	299
73	Structural aspects of stochastic mechanics and stochastic field theory. <i>Physics Reports</i> , 1981 , 77, 263-312	7.7	231
72	The Thermodynamic Limit in Mean Field Spin Glass Models. <i>Communications in Mathematical Physics</i> , 2002 , 230, 71-79	2	209
71	Quantization of dynamical systems and stochastic control theory. <i>Physical Review D</i> , 1983 , 27, 1774-1786	4.9	173
70	General properties of overlap probability distributions in disordered spin systems. Towards Parisi ultrametricity. <i>Journal of Physics A</i> , 1998 , 31, 9149-9155		123
69	ABOUT THE OVERLAP DISTRIBUTION IN MEAN FIELD SPIN GLASS MODELS. <i>International Journal of Modern Physics B</i> , 1996 , 10, 1675-1684	1.1	84
68	Multitasking associative networks. <i>Physical Review Letters</i> , 2012 , 109, 268101	7.4	80
67	The High Temperature Region of the Viana-Bray Diluted Spin Glass Model. <i>Journal of Statistical Physics</i> , 2004 , 115, 531-555	1.5	53
66	Quadratic replica coupling in the Sherrington-Kirkpatrick mean field spin glass model. <i>Journal of Mathematical Physics</i> , 2002 , 43, 3704-3716	1.2	48
65	Uniqueness of the Vacuum Energy Density and van Hove Phenomenon in the Infinite-Volume Limit for Two-Dimensional Self-Coupled Bose Fields. <i>Physical Review Letters</i> , 1972 , 28, 1213-1215	7.4	47
64	Equilibrium statistical mechanics of bipartite spin systems. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2011 , 44, 245002	2	44
63	Retrieval capabilities of hierarchical networks: from Dyson to Hopfield. <i>Physical Review Letters</i> , 2015 , 114, 028103	7.4	40
62	The Replica Symmetric Approximation of the Analogical Neural Network. <i>Journal of Statistical Physics</i> , 2010 , 140, 784-796	1.5	40
61	A thermodynamic perspective of immune capabilities. <i>Journal of Theoretical Biology</i> , 2011 , 287, 48-63	2.3	32
60	Discrete stochastic variational principles and quantum mechanics. <i>Physical Review D</i> , 1984 , 29, 1647-1657	7.9	30
59	Note on the Abelian Higgs-Kibble model on a lattice: Absence of spontaneous magnetization. <i>Physical Review D</i> , 1978 , 17, 1624-1628	4.9	28
58	Origin of the quantum observable operator algebra in the frame of stochastic mechanics. <i>Physical Review D</i> , 1983 , 28, 1916-1921	4.9	26

57	How glassy are neural networks?. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2012 , 2012, P07009	1.9	25
56	Energy in self-directed B lymphocytes: A statistical mechanics perspective. <i>Journal of Theoretical Biology</i> , 2015 , 375, 21-31	2.3	24
55	Mean Field Dilute Ferromagnet: High Temperature and Zero Temperature Behavior. <i>Journal of Statistical Physics</i> , 2008 , 132, 759-785	1.5	22
54	Central limit theorem for fluctuations in the high temperature region of the Sherrington-Kirkpatrick spin glass model. <i>Journal of Mathematical Physics</i> , 2002 , 43, 6224-6237	1.2	22
53	Replica symmetry breaking in mean-field spin glasses through the Hamilton-Jacobi technique. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2010 , 2010, P09006	1.9	19
52	Compatibility between the Brownian metric and the kinetic metric in Nelson stochastic quantization. <i>Physical Review D</i> , 1985 , 31, 2521-2524	4.9	19
51	About the ergodic regime in the analogical Hopfield neural networks: Moments of the partition function. <i>Journal of Mathematical Physics</i> , 2008 , 49, 125217	1.2	18
50	Course 5 An introduction to mean field spin glass theory: Methods and results. <i>Les Houches Summer School Proceedings</i> , 2006 , 243-271		18
49	Sum rules for the free energy in the mean field spin glass model 2001 , 161-170		18
48	Mean field bipartite spin models treated with mechanical techniques. <i>European Physical Journal B</i> , 2014 , 87, 1	1.2	17
47	Hierarchical neural networks perform both serial and parallel processing. <i>Neural Networks</i> , 2015 , 66, 22-35	9.1	15
46	Interpolating the Sherrington-Kirkpatrick replica trick. <i>Philosophical Magazine</i> , 2012 , 92, 78-97	1.6	14
45	About a solvable mean field model of a Gaussian spin glass. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2014 , 47, 155002	2	13
44	Quantum mechanical states as attractors for Nelson processes. <i>Foundations of Physics</i> , 1995 , 25, 297-315	1.2	13
43	The lagrangian approach to stochastic variational principles on curved manifolds. <i>Acta Applicandae Mathematicae</i> , 1992 , 26, 219-236	1.1	13
42	Can persistent Epstein-Barr virus infection induce chronic fatigue syndrome as a Pavlov reflex of the immune response?. <i>Journal of Biological Dynamics</i> , 2012 , 6, 740-62	2.4	12
41	Metastable states in the hierarchical Dyson model drive parallel processing in the hierarchical Hopfield network. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2015 , 48, 015001	2	11
40	On quantum and relativistic mechanical analogues in mean-field spin models. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2014 , 470, 20140589	2.4	11

39	Some comments on the connection between disordered long range spin glass models and their mean field version. <i>Journal of Physics A</i> , 2003 , 36, 10987-10995		10
38	Probabilistic ideas in the theory of Fermi fields: Stochastic quantization of the Fermi oscillator. <i>Physical Review D</i> , 1981 , 23, 1747-1751	4.9	10
37	Free-Energy Bounds for Hierarchical Spin Models. <i>Journal of Statistical Physics</i> , 2014 , 155, 211-222	1.5	9
36	Parallel processing in immune networks. <i>Physical Review E</i> , 2013 , 87, 042701	2.4	9
35	Topological properties of hierarchical networks. <i>Physical Review E</i> , 2015 , 91, 062807	2.4	8
34	Enrico Fermi's Discovery of Neutron-Induced Artificial Radioactivity: Neutrons and Neutron Sources. <i>Physics in Perspective</i> , 2006 , 8, 255-281	0.3	8
33	Stochastic quantization of the vector-meson field. <i>Physical Review D</i> , 1983 , 27, 2912-2915	4.9	8
32	The Discovery of Artificial Radioactivity. <i>Physics in Perspective</i> , 2012 , 14, 33-58	0.3	7
31	Enrico Fermi's Discovery of Neutron-Induced Artificial Radioactivity: The Influence of His Theory of Beta Decay. <i>Physics in Perspective</i> , 2009 , 11, 379-404	0.3	7
30	Stochastic mechanics of spin- $\frac{1}{2}$ particles. <i>Physical Review D</i> , 1984 , 30, 2579-2584	4.9	7
29	Scalar quantum electrodynamics on lattice correlation inequalities and infinite volume limit. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1977 , 68, 255-257	4.2	7
28	On the local structure of the Euclidean Dirac field. <i>Journal of Mathematical Physics</i> , 1980 , 21, 1111-1114	1.2	6
27	Strong Disorder for a Certain Class of Directed Polymers in a Random Environment. <i>Journal of Theoretical Probability</i> , 2006 , 19, 134-151	0.5	5
26	Enrico Fermi's Discovery of Neutron-Induced Artificial Radioactivity: The Recovery of His First Laboratory Notebook. <i>Physics in Perspective</i> , 2004 , 6, 29-41	0.3	5
25	Stochastic action of dynamical systems on curved manifolds. The geodesic interpolation. <i>Journal of Mathematical Physics</i> , 1990 , 31, 639-648	1.2	5
24	When Energy Conservation Seems to Fail: The Prediction of the Neutrino. <i>Science and Education</i> , 2014 , 23, 1339-1359	2.1	4
23	Configuration Spaces for Quantum Spinning Particles. <i>Physical Review Letters</i> , 1983 , 50, 1715-1718	7.4	4
22	Legendre Structures in Statistical Mechanics for Ordered and Disordered Systems 142-165		3

21	The phenomenon of spontaneous replica symmetry breaking in complex statistical mechanics systems. <i>Journal of Physics: Conference Series</i> , 2013 , 442, 012013	0.3	3
20	Ettore Majorana's Forgotten Publication on the Thomas-Fermi Model. <i>Physics in Perspective</i> , 2008 , 10, 56-76	0.3	3
19	Infinite Volume Limit and Spontaneous Replica Symmetry Breaking in Mean Field Spin Glass Models. <i>Annales Henri Poincare</i> , 2003 , 4, 441-444	1.2	3
18	The Ising-Sherrington-Kirpatrick Model in a Magnetic Field at High Temperature. <i>Journal of Statistical Physics</i> , 2005 , 120, 147-165	1.5	3
17	COUPLED SELF-OSCILLATING SYSTEMS: THEORY AND APPLICATIONS. <i>International Journal of Modern Physics B</i> , 2009 , 23, 5505-5514	1.1	2
16	Probability and quantum mechanics the conceptual foundations of stochastic mechanics. <i>Lecture Notes in Mathematics</i> , 1984 , 134-145	0.4	2
15	Carlen processes: A new class of diffusions with singular drifts. <i>Lecture Notes in Mathematics</i> , 1985 , 259-267	0.7	2
14	Spontaneous Replica Symmetry Breaking and Interpolation Methods for Complex Statistical Mechanics Systems. <i>Lecture Notes in Mathematics</i> , 2015 , 45-70	0.4	2
13	The Replica Trick in the Frame of Replica Interpolation. <i>Springer Proceedings in Mathematics and Statistics</i> , 2019 , 171-191	0.2	1
12	Interpolation and Comparison Methods in the Mean Field Spin Glass Model. <i>Springer INdAM Series</i> , 2014 , 1-12	0.4	1
11	External Field Dependence of Magnetization and Long Range Order in Quantum Field Theory 1976 , 125-146		1
10	Spontaneous Replica Symmetry Breaking in the Mean Field Spin Glass Model 2009 , 299-311		1
9	Enrico Fermi's Discovery of Neutron-Induced Artificial Radioactivity: A Case of "emanation" from Divine Providence <i>Physics in Perspective</i> , 2020 , 22, 129-161	0.3	0
8	The Disappearance and Death of Ettore Majorana. <i>Physics in Perspective</i> , 2013 , 15, 160-177	0.3	
7	On the connection between the stochastic quantization of the vector-meson field and the Euclidean theory. <i>Physical Review D</i> , 1986 , 33, 2498-2499	4.9	
6	Bose field theory as classical statistical mechanics. I. The variational principle and the equilibrium equations 1973 , 243-264		
5	Momentum-position complementarity in stochastic mechanics 1982 , 208-215		
4	Infinite Volume Limit and Spontaneous Replica Symmetry Breaking in Mean Field Spin Glass Models 2003 , 441-444		

- 3 Enrico Fermi and Ettore Majorana: So Strong, So Different. *Springer Proceedings in Physics*, **2014**, 29-39 0.2
- 2 Nelson's Symmetry at Work: the Infinite Volume Behavior of the Vacuum for Two-Dimensional Self-Coupled Bose Fields **1974**, 45-59
- 1 The Emergence of the Order Parameter in the Interpolating Replica Trick for Disordered Statistical Mechanics Systems. *Springer Proceedings in Mathematics and Statistics*, **2022**, 63-86 0.2