

Biagio Lucini

List of Publications by Year in Descending Order

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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.

87
papers

2,526
citations

24
h-index

49
g-index

118
ext. papers

3,057
ext. citations

4.5
avg, IF

5.34
L-index

#	Paper	IF	Citations
87	Sp(4) gauge theories and beyond the standard model physics. <i>EPJ Web of Conferences</i> , 2022 , 258, 08003	0.3	0
86	Inverse Renormalization Group in Quantum Field Theory.. <i>Physical Review Letters</i> , 2022 , 128, 081603	7.4	1
85	Quantitative analysis of phase transitions in two-dimensional XY models using persistent homology.. <i>Physical Review E</i> , 2022 , 105, 024121	2.4	1
84	Quantum field theories, Markov random fields and machine learning. <i>Journal of Physics: Conference Series</i> , 2022 , 2207, 012056	0.3	
83	Efficient computations of continuous action densities of states for lattice models. <i>Journal of Physics: Conference Series</i> , 2022 , 2207, 012052	0.3	
82	Investigating the conformal behavior of SU(2) with one adjoint Dirac flavor. <i>Physical Review D</i> , 2021 , 104,	4.9	1
81	Ergodic sampling of the topological charge using the density of states. <i>European Physical Journal C</i> , 2021 , 81, 1	4.2	3
80	Quantum field-theoretic machine learning. <i>Physical Review D</i> , 2021 , 103,	4.9	5
79	Artificial Intelligence (AI): Multidisciplinary perspectives on emerging challenges, opportunities, and agenda for research, practice and policy. <i>International Journal of Information Management</i> , 2021 , 57, 101994	16.4	352
78	Adding machine learning within Hamiltonians: Renormalization group transformations, symmetry breaking and restoration. <i>Physical Review Research</i> , 2021 , 3,	3.9	6
77	Glueballs and strings in Sp(2N) Yang-Mills theories. <i>Physical Review D</i> , 2021 , 103,	4.9	2
76	Mapping distinct phase transitions to a neural network. <i>Physical Review E</i> , 2020 , 102, 053306	2.4	9
75	Sp(4) gauge theories on the lattice: Quenched fundamental and antisymmetric fermions. <i>Physical Review D</i> , 2020 , 101,	4.9	14
74	Understanding and responding to COVID-19 in Wales: protocol for a privacy-protecting data platform for enhanced epidemiology and evaluation of interventions. <i>BMJ Open</i> , 2020 , 10, e043010	3	17
73	Sp(2N) Yang-Mills towards large N. 2020 ,		2
72	Disease control across urban-rural gradients. <i>Journal of the Royal Society Interface</i> , 2020 , 17, 20200775	4.1	5
71	Free energy of the self-interacting relativistic lattice Bose gas at finite density. <i>Physical Review D</i> , 2020 , 101,	4.9	2

70	Color dependence of tensor and scalar glueball masses in Yang-Mills theories. <i>Physical Review D</i> , 2020 , 102,	4.9	6
69	Extending machine learning classification capabilities with histogram reweighting. <i>Physical Review E</i> , 2020 , 102, 033303	2.4	12
68	Machine Learning as a universal tool for quantitative investigations of phase transitions. <i>Nuclear Physics B</i> , 2019 , 944, 114639	2.8	19
67	Progress in the lattice simulations of Sp(2N) gauge theories 2019 ,		4
66	Meson spectrum of Sp(4) lattice gauge theory with two fundamental Dirac fermions 2019 ,		2
65	Sp(4) gauge theories on the lattice: Nf = 2 dynamical fundamental fermions. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	23
64	Sp(4) gauge theory on the lattice: towards SU(4)/Sp(4) composite Higgs (and beyond). <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	35
63	Ergodicity of the LLR method for the Density of States. <i>EPJ Web of Conferences</i> , 2018 , 175, 02005	0.3	2
62	Higgs compositeness in Sp(2N) gauge theories I The pure gauge model. <i>EPJ Web of Conferences</i> , 2018 , 175, 08013	0.3	6
61	Higgs compositeness in Sp(2N) gauge theories II Determining the low-energy constants with lattice calculations. <i>EPJ Web of Conferences</i> , 2018 , 175, 08011	0.3	9
60	Higgs compositeness in Sp(2N) gauge theories III Resymplecticisation, scale setting and topology. <i>EPJ Web of Conferences</i> , 2018 , 175, 08012	0.3	7
59	Simulations of QCD and QED with C* boundary conditions. <i>EPJ Web of Conferences</i> , 2018 , 175, 09001	0.3	4
58	Gauge invariant determination of charged hadron masses. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	7
57	Symmetry restoration at high-temperature in two-color and two-flavor lattice gauge theories. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	14
56	Casimir scaling and Yang-Mills glueballs. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2017 , 775, 89-93	4.2	6
55	Recent results from SU(2) with one adjoint Dirac fermion. <i>International Journal of Modern Physics A</i> , 2017 , 32, 1747006	1.2	3
54	Large volumes and spectroscopy of walking theories. <i>Physical Review D</i> , 2016 , 93,	4.9	15
53	Charged hadrons in local finite-volume QED+QCD with C? boundary conditions. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	27

52	An efficient algorithm for numerical computations of continuous densities of states. <i>European Physical Journal C</i> , 2016 , 76, 1	4.2	16
51	Large mass hierarchies from strongly-coupled dynamics. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	13
50	Non-perturbative results for large-N gauge theories. <i>Nuclear and Particle Physics Proceedings</i> , 2016 , 273-275, 1657-1663	0.4	1
49	Guest Editor's Preface to the Special Issue on lattice gauge theories beyond QCD. <i>International Journal of Modern Physics A</i> , 2016 , 31, 1602002	1.2	1
48	Infrared regime of SU(2) with one adjoint Dirac flavor. <i>Physical Review D</i> , 2015 , 91,	4.9	31
47	Numerical results for gauge theories near the conformal window. <i>Journal of Physics: Conference Series</i> , 2015 , 631, 012065	0.3	5
46	The density of states approach for the simulation of finite density quantum field theories. <i>Journal of Physics: Conference Series</i> , 2015 , 631, 012063	0.3	2
45	Density of states approach to dense quantum systems. <i>Physical Review D</i> , 2014 , 90,	4.9	23
44	Introductory lectures to large-N QCD phenomenology and lattice results. <i>Progress in Particle and Nuclear Physics</i> , 2014 , 75, 1-40	10.6	24
43	Mesons in large-N QCD. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5.4	48
42	Topology of Minimal Walking Technicolor. <i>European Physical Journal C</i> , 2013 , 73, 1	4.2	6
41	Infrared conformality and bulk critical points: SU(2) with heavy adjoint quarks. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5.4	6
40	gauge theories at large. <i>Physics Reports</i> , 2013 , 526, 93-163	27.7	161
39	Towards the glueball spectrum from unquenched lattice QCD. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	95
38	Density of states in gauge theories. <i>Physical Review Letters</i> , 2012 , 109, 111601	7.4	47
37	Magnetic monopole plasma phase in (2+1)d compact quantum electrodynamics with fermionic matter. <i>Physical Review D</i> , 2011 , 84,	4.9	10
36	Improved lattice spectroscopy of minimal walking technicolor. <i>Physical Review D</i> , 2011 , 84,	4.9	34
35	k-string tensions and the 1/N expansion. <i>Physical Review D</i> , 2011 , 83,	4.9	7

34	Numerical method for determining the interface free energy. <i>Physical Review E</i> , 2011 , 84, 056702	2.4	1
33	Infrared dynamics of minimal walking technicolor. <i>Physical Review D</i> , 2010 , 82,	4.9	68
32	Strongly interacting dynamics beyond the standard model on a space-time lattice. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2010 , 368, 3657-70	3	12
31	A numerical investigation of orientifold planar equivalence for quenched mesons. <i>Physical Review D</i> , 2010 , 82,	4.9	2
30	Mesonic spectroscopy of minimal walking technicolor. <i>Physical Review D</i> , 2010 , 82,	4.9	45
29	Glueball masses in the large N limit. <i>Journal of High Energy Physics</i> , 2010 , 2010, 1	5.4	55
28	Discrete symmetry breaking and baryon currents in U(N) and SU(N) gauge theories. <i>Physical Review D</i> , 2009 , 79,	4.9	4
27	Conformal versus confining scenario in SU(2) with adjoint fermions. <i>Physical Review D</i> , 2009 , 80,	4.9	77
26	Is confinement a phase of broken dual gauge symmetry?. <i>Physical Review D</i> , 2008 , 78,	4.9	11
25	Lattice study of planar equivalence: The quark condensate. <i>Physical Review D</i> , 2008 , 78,	4.9	11
24	Confinement, screening and the center on $S^3 \times \mathbb{R}^1$. <i>Journal of High Energy Physics</i> , 2008 , 2008, 075-075	5.4	5
23	Quenched mesonic spectrum at large N. <i>Journal of High Energy Physics</i> , 2008 , 2008, 062-062	5.4	23
22	The running of the coupling in SU(N) pure gauge theories. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2008 , 668, 226-232	4.2	18
21	Baryon currents in QCD with compact dimensions. <i>Physical Review D</i> , 2007 , 75,	4.9	19
20	G ₂ gauge theory at finite temperature. <i>Journal of High Energy Physics</i> , 2007 , 2007, 100-100	5.4	38
19	Universality of k-string tensions from holography and the lattice. <i>Journal of High Energy Physics</i> , 2006 , 2006, 036-036	5.4	17
18	Evidence for diquarks in lattice QCD. <i>Physical Review Letters</i> , 2006 , 97, 222002	7.4	82
17	Topology of SU(N) gauge theories at $T=0$ and $T=T_c$. <i>Nuclear Physics B</i> , 2005 , 715, 461-482	2.8	54

16	Chiral transition and deconfinement in $N_f = 2$ QCD. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2005 , 140, 632-634		
15	A finite temperature investigation of the Georgi-Glashow model in 3D. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2005 , 140, 814-816		2
14	A cluster algorithm for lattice gauge theories. <i>Computer Physics Communications</i> , 2005 , 169, 370-373	4.2	3
13	The Large N Limit from the Lattice. <i>Few-Body Systems</i> , 2005 , 36, 161-166	1.6	4
12	Properties of the deconfining phase transition in $SU(N)$ gauge theories. <i>Journal of High Energy Physics</i> , 2005 , 2005, 033-033	5.4	144
11	The high temperature phase transition in $SU(N)$ gauge theories. <i>Journal of High Energy Physics</i> , 2004 , 2004, 061-061	5.4	159
10	Glueballs and k-strings in $SU(N)$ gauge theories: calculations with improved operators. <i>Journal of High Energy Physics</i> , 2004 , 2004, 012-012	5.4	123
9	The deconfinement transition in $SU(N)$ gauge theories. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2002 , 545, 197-206	4.2	73
8	$SU(N)$ gauge theories in 2+1 dimensions: Further results. <i>Physical Review D</i> , 2002 , 66,	4.9	56
7	Numerical portrait of a relativistic thin film BCS superfluid. <i>Physical Review D</i> , 2002 , 65,	4.9	20
6	$SU(N)$ gauge theories in four dimensions: exploring the approach to $N = \infty$. <i>Journal of High Energy Physics</i> , 2001 , 2001, 050-050	5.4	147
5	Critical behavior in the dense planar Nambu--Jona-Lasinio model. <i>Physical Review Letters</i> , 2001 , 86, 753-754	4.4	13
4	Vortices and confinement in hot and cold $D = 2+1$ gauge theories. <i>Journal of High Energy Physics</i> , 2000 , 2000, 040-040	5.4	16
3	IMPLEMENTATION OF C [∞] BOUNDARY CONDITIONS IN THE HYBRID MONTE CARLO ALGORITHM. <i>International Journal of Modern Physics C</i> , 2000 , 11, 637-653	1.1	1
2	Abelian Z ₂ monopoles in $D = 2+1$ $SU(2)$ lattice gauge theory. <i>Journal of High Energy Physics</i> , 2000 , 2000, 043-043	5.4	3
1	The phase diagram of the three dimensional Thirring model. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1999 , 461, 263-269	4.2	24