Leonardo Giusti

List of Publications by Year
in descending order

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99 papers	2,460 citations	172457 29 h-index	214800 47 g-index
99 all docs	99 docs citations	99 times ranked	1844 citing authors

#	Article	IF	Citations
1	Non-perturbative thermal QCD at all temperatures: the case of mesonic screening masses. Journal of High Energy Physics, 2022, 2022, 1.	4.7	5
2	Four-dimensional factorization of the fermion determinant in lattice QCD. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2022, 829, 137103.	4.1	1
3	Multi-level Monte Carlo computation of the hadronic vacuum polarization contribution to (gâ€¯â^'â€¯2). Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 816, 136191.	4.1	4
4	Non-perturbative definition of the QCD energy-momentum tensor on the lattice. Journal of High Energy Physics, 2020, 2020, 1.	4.7	12
5	Frequency-splitting estimators of single-propagator traces. European Physical Journal C, 2019, 79, 1.	3.9	14
6	Topological susceptibility at $$T>T_{mathrm{c}}$$ T > T c from master-field simulations of the SU(3) gauge theory. European Physical Journal C, 2019, 79, 1.	3.9	15
7	Local multiboson factorization of the quark determinant. EPJ Web of Conferences, 2018, 175, 11005.	0.3	4
8	QCD in a moving frame: an exploratory study. EPJ Web of Conferences, 2018, 175, 14012.	0.3	5
9	Multi-boson block factorization of fermions. EPJ Web of Conferences, 2018, 175, 01003.	0.3	7
10	Local factorization of the fermion determinant in lattice QCD. Physical Review D, 2017, 95, .	4.7	32
11	Equation of state of the SU(3) Yangâ€“Mills theory: A precise determination from a moving frame. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 769, 385-390.	4.1	34
12	Thermodynamics of strongly interacting plasma with high accuracy. , 2017, , .		0
13	Domain decomposition and multilevel integration for fermions. , 2017, , .		0
14	Mechanisms of chiral symmetry breaking in QCD: A lattice perspective. AIP Conference Proceedings, 2016, , .	0.4	0
15	The topological susceptibility in the large-N limit of SU(N) Yangâ€“Mills theory. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 762, 232-236.	4.1	29
16	Domain decomposition, multilevel integration, and exponential noise reduction in lattice QCD. Physical Review D, 2016, 93, .	4.7	34
17	Energy-momentum tensor on the lattice: Nonperturbative renormalization in Yang-Mills theory. Physical Review D, 2015, 91, .	4.7	19
18	Color structure of Yang-Mills theory with static sources in a periodic box. Physical Review D, 2015, 92, .	4.7	2

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19	Non-Gaussianities in the topological charge distribution of the SU(3) Yang-Mills theory. Physical Review D, 2015, 92, .	4.7	44
20	Chiral Symmetry Breaking in QCD with Two Light Flavors. Physical Review Letters, 2015, 114, 112001.	7.8	18
21	Spectral density of the Dirac operator in two-flavor QCD. Physical Review D, 2015, 91, .	4.7	18
22	Testing the Witten-Veneziano mechanism with the Yang-Mills gradient flow on the lattice. , 2015, , .		0
23	Equation of State of a Relativistic Theory from a Moving Frame. Physical Review Letters, 2014, 113, 031601.	7.8	20
24	Measuring the entropy from shifted boundary conditions. , 2014, , .		0
25	Implications of PoincarÃ© symmetry for thermal field theories in finite-volume. Journal of High Energy Physics, 2013, 2013, 1.	4.7	26
26	A novel approach for computing glueball masses and matrix elements in Yang-Mills theories on the lattice. Journal of High Energy Physics, 2011, 2011, 1.	4.7	21
27	Thermodynamic potentials from shifted boundary conditions: the scalar-field theory case. Journal of High Energy Physics, 2011, 2011, 1.	4.7	16
28	Thermal Momentum Distribution from Path Integrals with Shifted Boundary Conditions. Physical Review Letters, 2011, 106, 131601.	7.8	30
29	Symmetries and exponential error reduction in YM theories on the lattice: theoretical aspects and simulation results. , 2010, , .		0
30	Chiral symmetry breaking and the Banks-Casher relation in lattice QCD with Wilson quarks. Journal of High Energy Physics, 2009, 2009, 013-013.	4.7	99
31	Exploiting symmetries for exponential error reduction in path integral Monte Carlo. Computer Physics Communications, 2009, 180, 813-818.	7.5	15
32	Symmetries and exponential error reduction in Yangâ€“Mills theories on the lattice. Computer Physics Communications, 2009, 180, 819-826.	7.5	22
33	Testing chiral effective theory with quenched lattice QCD. Journal of High Energy Physics, 2008, 2008, 024-024.	4.7	10
34	Kâ†'Ï€Ï€Amplitudes from Lattice QCD with a Light Charm Quark. Physical Review Letters, 2007, 98, 082003.	7.8	16
35	Spontaneous chiral symmetry breaking in QCD: a finite-size scaling study on the lattice. Journal of High Energy Physics, 2007, 2007, 090-090.	4.7	21
36	QCD with light Wilson quarks on fine lattices (I): first experiences and physics results. Journal of High Energy Physics, 2007, 2007, 056-056.	4.7	65

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37	QCD with light Wilson quarks on fine lattices (II): DD-HMC simulations and data analysis. Journal of High Energy Physics, 2007, 2007, 082-082.	4.7	53
38	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î¸</mml:mi></mml:math>dependence of the vacuum energy in SU(3) gauge theory from the lattice. Physical Review D, 2007, 76, .	4.7	37
39	Lattice QCD simulations with two light dynamical (Wilson) quarks. , 2007, , .		0
40	Non-perturbative renormalisation of leftâ€“left four-fermion operators with Neuberger fermions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2006, 641, 118-124.	4.1	8
41	Stability of lattice QCD simulations and the thermodynamic limit. Journal of High Energy Physics, 2006, 2006, 011-011.	4.7	87
42	Light dynamical fermions on the lattice: toward the chiral regime of QCD. , 2006, , .		2
43	Topological susceptibility for the SU(3) Yangâ€“Mills theory. Nuclear Physics, Section B, Proceedings Supplements, 2005, 140, 603-605.	0.4	2
44	Correlation functions at small quark masses with overlap fermions. Nuclear Physics, Section B, Proceedings Supplements, 2005, 140, 417-419.	0.4	0
45	Topological Susceptibility in SU(3) Gauge Theory. Physical Review Letters, 2005, 94, 032003.	7.8	117
46	Low-mode averaging for baryon correlation functions. , 2005, , .		0
47	BKfrom Quenched QCD with Exact Chiral Symmetry. Physical Review Letters, 2004, 92, 042001.	7.8	22
48	A lattice perspective of kaon phenomenology. European Physical Journal C, 2004, 33, s881-s884.	3.9	0
49	Non perturbative renormalization in coordinate space. Nuclear Physics, Section B, Proceedings Supplements, 2004, 129-130, 411-413.	0.4	3
50	Topological susceptibility in full QCD with Ginspargâ€“Wilson fermions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 587, 157-166.	4.1	52
51	Non-perturbative renormalization of lattice operators in coordinate space. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 598, 227-236.	4.1	24
52	Numerical techniques for lattice QCD in the Ïµ-regime. Computer Physics Communications, 2003, 153, 31-51.	7.5	107
53	BK from quenched overlap QCD. Nuclear Physics, Section B, Proceedings Supplements, 2003, 119, 356-358.	0.4	1
54	Numerical exploration of the RI/MOM scheme gauge dependence. Nuclear Physics, Section B, Proceedings Supplements, 2003, 119, 962-964.	0.4	3

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55	Exact chiral symmetry on the lattice: QCD aplications. Nuclear Physics, Section B, Proceedings Supplements, 2003, 119, 149-160.	0.4	18
56	Lattice QCD in the epsilon-regime and random matrix theory. Journal of High Energy Physics, 2003, 2003, 023-023.	4.7	85
57	Study of the â€™t Hooft model with the overlap Dirac operator. Physical Review D, 2002, 65, .	4.7	6
58	Fermions on tori in uniform Abelian fields. Physical Review D, 2002, 65, .	4.7	12
59	The UA(1) problem on the lattice with Ginspargâ€“Wilson fermions. Nuclear Physics B, 2002, 628, 234-252.	2.5	72
60	A simulation of the 't Hooft model at finite Nc with the overlap dirac operator. Nuclear Physics, Section B, Proceedings Supplements, 2002, 106-107, 733-735.	0.4	0
61	Quenched results for light quark physics with overlap fermions. Nuclear Physics, Section B, Proceedings Supplements, 2002, 106-107, 739-747.	0.4	19
62	Quark and gluon propagators in covariant gauges. Nuclear Physics, Section B, Proceedings Supplements, 2002, 106-107, 995-997.	0.4	6
63	The UA(1) problem on the lattice. Nuclear Physics, Section B, Proceedings Supplements, 2002, 106-107, 1001-1003.	0.4	1
64	Remarks on the gauge dependence of the RI/MOM renormalization procedure. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 541, 350-355.	4.1	13
65	B0â€“ mixing and decay constants with the non-perturbatively improved action. Nuclear Physics B, 2001, 618, 241-258.	2.5	20
66	Exact results and approximation schemes for the Schwinger model with the overlap Dirac operator. Nuclear Physics, Section B, Proceedings Supplements, 2001, 94, 741-747.	0.4	3
67	Results on the gluon propagator in lattice covariant gauges. Nuclear Physics, Section B, Proceedings Supplements, 2001, 94, 805-808.	0.4	9
68	PROBLEMS ON LATTICE GAUGE FIXING. International Journal of Modern Physics A, 2001, 16, 3487-3534.	1.5	73
69	Analysis of theÎ”I=1/2rule andÎ¼â€²/Î¼with overlap fermions. Physical Review D, 2001, 64, .	4.7	23
70	Schwinger model with the overlap-Dirac operator: Exact results versus a physics motivated approximation. Physical Review D, 2001, 64, .	4.7	18
71	Light quark masses with overlap fermions in quenched QCD. Physical Review D, 2001, 64, .	4.7	58
72	RI/MOM renormalization window and Goldstone pole contamination. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 488, 303-312.	4.1	34

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73	Weak matrix elements without quark masses on the lattice. Nuclear Physics, Section B, Proceedings Supplements, 2000, 86, 299-302.	0.4	1
74	NNLO unquenched calculation of the b quark mass. Nuclear Physics, Section B, Proceedings Supplements, 2000, 83-84, 286-288.	0.4	1
75	How to fix non-perturbatively a parameter dependent covariant gauge on the lattice. Nuclear Physics, Section B, Proceedings Supplements, 2000, 83-84, 819-821.	0.4	1
76	Considerations on Neuberger's operator. Nuclear Physics, Section B, Proceedings Supplements, 2000, 83-84, 896-898.	0.4	11
77	Perturbative renormalization of weak Hamiltonian four-fermion operators with overlap fermions. Physical Review D, 2000, 62, .	4.7	30
78	Lattice gauge fixing for parameter dependent covariant gauges. Physical Review D, 2000, 63, .	4.7	13
79	Combined analysis of the unitarity triangle and CP violation in the Standard Model. Nuclear Physics B, 2000, 573, 201-222.	2.5	28
80	Quark masses and the chiral condensate with a non-perturbative renormalization procedure. Nuclear Physics, Section B, Proceedings Supplements, 1999, 73, 210-212.	0.4	0
81	New results from APE with nonperturbatively improved Wilson fermions. Nuclear Physics, Section B, Proceedings Supplements, 1999, 73, 222-224.	0.4	2
82	B-parameters for Î”S = 2 supersymmetric operators. Nuclear Physics, Section B, Proceedings Supplements, 1999, 73, 315-317.	0.4	5
83	On the definition of gauge field operators in lattice gauge-fixed theories. Nuclear Physics, Section B, Proceedings Supplements, 1999, 73, 862-864.	0.4	8
84	B-parameters for Î”S=2 supersymmetric operators. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 453, 30-39.	4.1	48
85	Renormalization group invariant matrix elements of Î”S=2 and Î”I=3/2 four-fermion operators without quark masses. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 470, 233-242.	4.1	43
86	The QCD chiral condensate from the lattice. Nuclear Physics B, 1999, 538, 249-277.	2.5	70
87	Lattice quark masses: a non-perturbative measurement. Nuclear Physics B, 1999, 540, 472-490.	2.5	35
88	Natural ranges of supersymmetric signals. Nuclear Physics B, 1999, 550, 3-31.	2.5	85
89	Fermion masses and symmetry breaking of a U(2) flavour symmetry. Nuclear Physics B, 1999, 550, 32-40.	2.5	29
90	On the definition of gauge field operators in lattice gauge-fixed theories. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 432, 196-202.	4.1	20

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91	A high statistics lattice calculation of quark masses with a non-perturbative renormalization procedure. Nuclear Physics, Section B, Proceedings Supplements, 1998, 63, 167-169.	0.4	2
92	Critical dynamics of the hybrid Monte Carlo algorithm. Nuclear Physics, Section B, Proceedings Supplements, 1998, 63, 946-948.	0.4	9
93	Non-perturbative renormalization of quark bilinears. Nuclear Physics B, 1998, 531, 429-445.	2.5	43
94	Î”MK and epsilonK in SUSY at the next-to-leading order. Journal of High Energy Physics, 1998, 1998, 008-008.	4.7	204
95	Light quenched hadron spectrum and decay constants on different lattices. Nuclear Physics B, 1997, 489, 427-452.	2.5	76
96	Lattice gauge-fixing for generic covariant gauges. Nuclear Physics B, 1997, 498, 331-344.	2.5	28
97	Atomic parity violation and the HERA anomaly. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 410, 229-232.	4.1	6
98	Light quenched hadron spectrum and decay constants on different lattices. Nuclear Physics, Section B, Proceedings Supplements, 1997, 53, 203-205.	0.4	0
99	A high statistics lattice calculation of heavy-light meson decay constants. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 405, 133-141.	4.1	16