

Leonardo Giusti

List of Publications by Year in descending order

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99
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2,460
citations

172457

29
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214800

47
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99
all docs

99
docs citations

99
times ranked

1844
citing authors

#	ARTICLE	IF	CITATIONS
1	$\hat{\Gamma}^{\text{MK}}$ and ϵ^{K} in SUSY at the next-to-leading order. Journal of High Energy Physics, 1998, 1998, 008-008.	4.7	204
2	Topological Susceptibility in SU(3) Gauge Theory. Physical Review Letters, 2005, 94, 032003.	7.8	117
3	Numerical techniques for lattice QCD in the $\bar{\mu}$ -regime. Computer Physics Communications, 2003, 153, 31-51.	7.5	107
4	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
5	Stability of lattice QCD simulations and the thermodynamic limit. Journal of High Energy Physics, 2006, 2006, 011-011.	4.7	87
6	Natural ranges of supersymmetric signals. Nuclear Physics B, 1999, 550, 3-31.	2.5	85
7	Lattice QCD in the epsilon-regime and random matrix theory. Journal of High Energy Physics, 2003, 2003, 023-023.	4.7	85
8	Light quenched hadron spectrum and decay constants on different lattices. Nuclear Physics B, 1997, 489, 427-452.	2.5	76
9	PROBLEMS ON LATTICE GAUGE FIXING. International Journal of Modern Physics A, 2001, 16, 3487-3534.	1.5	73
10	The UA(1) problem on the lattice with Ginsparg-Wilson fermions. Nuclear Physics B, 2002, 628, 234-252.	2.5	72
11	The QCD chiral condensate from the lattice. Nuclear Physics B, 1999, 538, 249-277.	2.5	70
12	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
13	Light quark masses with overlap fermions in quenched QCD. Physical Review D, 2001, 64, .	4.7	58
14	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
15	Topological susceptibility in full QCD with Ginsparg-Wilson fermions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 587, 157-166.	4.1	52
16	B-parameters for $\hat{\Gamma}^{\text{S=2}}$ supersymmetric operators. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 453, 30-39.	4.1	48
17	Non-Gaussianities in the topological charge distribution of the SU(3) Yang-Mills theory. Physical Review D, 2015, 92, .	4.7	44
18	Non-perturbative renormalization of quark bilinears. Nuclear Physics B, 1998, 531, 429-445.	2.5	43

#	ARTICLE	IF	CITATIONS
19	Renormalization group invariant matrix elements of $\hat{S}=2$ and $\hat{S}=3/2$ four-fermion operators without quark masses. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 470, 233-242.	4.1	43
20	$\langle \hat{I} \rangle$ dependence of the vacuum energy in SU(3) gauge theory from the lattice. Physical Review D, 2007, 76, .	4.7	37
21	Lattice quark masses: a non-perturbative measurement. Nuclear Physics B, 1999, 540, 472-490.	2.5	35
22	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
23	Domain decomposition, multilevel integration, and exponential noise reduction in lattice QCD. Physical Review D, 2016, 93, .	4.7	34
24	Equation of state of the SU(3) Yang-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
25	Local factorization of the fermion determinant in lattice QCD. Physical Review D, 2017, 95, .	4.7	32
26	Perturbative renormalization of weak Hamiltonian four-fermion operators with overlap fermions. Physical Review D, 2000, 62, .	4.7	30
27	Thermal Momentum Distribution from Path Integrals with Shifted Boundary Conditions. Physical Review Letters, 2011, 106, 131601.	7.8	30
28	Fermion masses and symmetry breaking of a U(2) flavour symmetry. Nuclear Physics B, 1999, 550, 32-40.	2.5	29
29	The topological susceptibility in the large-N limit of SU(N) Yang-Mills theory. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 762, 232-236.	4.1	29
30	Lattice gauge-fixing for generic covariant gauges. Nuclear Physics B, 1997, 498, 331-344.	2.5	28
31	Combined analysis of the unitarity triangle and CP violation in the Standard Model. Nuclear Physics B, 2000, 573, 201-222.	2.5	28
32	Implications of Poincaré symmetry for thermal field theories in finite-volume. Journal of High Energy Physics, 2013, 2013, 1.	4.7	26
33	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
34	Analysis of the $\hat{S}=1/2$ rule and \hat{I} with overlap fermions. Physical Review D, 2001, 64, .	4.7	23
35	BK from Quenched QCD with Exact Chiral Symmetry. Physical Review Letters, 2004, 92, 042001.	7.8	22
36	Symmetries and exponential error reduction in Yang-Mills theories on the lattice. Computer Physics Communications, 2009, 180, 819-826.	7.5	22

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37	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
38	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
39	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
40	B_0 mixing and decay constants with the non-perturbatively improved action. Nuclear Physics B, 2001, 618, 241-258.	2.5	20
41	Equation of State of a Relativistic Theory from a Moving Frame. Physical Review Letters, 2014, 113, 031601.	7.8	20
42	Quenched results for light quark physics with overlap fermions. Nuclear Physics, Section B, Proceedings Supplements, 2002, 106-107, 739-747.	0.4	19
43	Energy-momentum tensor on the lattice: Nonperturbative renormalization in Yang-Mills theory. Physical Review D, 2015, 91, .	4.7	19
44	Schwinger model with the overlap-Dirac operator: Exact results versus a physics motivated approximation. Physical Review D, 2001, 64, .	4.7	18
45	Exact chiral symmetry on the lattice: QCD applications. Nuclear Physics, Section B, Proceedings Supplements, 2003, 119, 149-160.	0.4	18
46	Chiral Symmetry Breaking in QCD with Two Light Flavors. Physical Review Letters, 2015, 114, 112001.	7.8	18
47	Spectral density of the Dirac operator in two-flavor QCD. Physical Review D, 2015, 91, .	4.7	18
48	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
49	$K^+ \rightarrow \pi^0$ Amplitudes from Lattice QCD with a Light Charm Quark. Physical Review Letters, 2007, 98, 082003.	7.8	16
50	Thermodynamic potentials from shifted boundary conditions: the scalar-field theory case. Journal of High Energy Physics, 2011, 2011, 1.	4.7	16
51	Exploiting symmetries for exponential error reduction in path integral Monte Carlo. Computer Physics Communications, 2009, 180, 813-818.	7.5	15
52	Topological susceptibility at $T \gg T_c$ from master-field simulations of the SU(3) gauge theory. European Physical Journal C, 2019, 79, 1.	3.9	15
53	Frequency-splitting estimators of single-propagator traces. European Physical Journal C, 2019, 79, 1.	3.9	14
54	Lattice gauge fixing for parameter dependent covariant gauges. Physical Review D, 2000, 63, .	4.7	13

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55	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
56	Fermions on tori in uniform Abelian fields. Physical Review D, 2002, 65, .	4.7	12
57	Non-perturbative definition of the QCD energy-momentum tensor on the lattice. Journal of High Energy Physics, 2020, 2020, 1.	4.7	12
58	Considerations on Neuberger's operator. Nuclear Physics, Section B, Proceedings Supplements, 2000, 83-84, 896-898.	0.4	11
59	Testing chiral effective theory with quenched lattice QCD. Journal of High Energy Physics, 2008, 2008, 024-024.	4.7	10
60	Critical dynamics of the hybrid Monte Carlo algorithm. Nuclear Physics, Section B, Proceedings Supplements, 1998, 63, 946-948.	0.4	9
61	Results on the gluon propagator in lattice covariant gauges. Nuclear Physics, Section B, Proceedings Supplements, 2001, 94, 805-808.	0.4	9
62	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
63	Non-perturbative renormalisation of left-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
64	Multi-boson block factorization of fermions. EPJ Web of Conferences, 2018, 175, 01003.	0.3	7
65	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
66	Study of the \hat{M} Hooft model with the overlap Dirac operator. Physical Review D, 2002, 65, .	4.7	6
67	Quark and gluon propagators in covariant gauges. Nuclear Physics, Section B, Proceedings Supplements, 2002, 106-107, 995-997.	0.4	6
68	B-parameters for $\hat{P}^S = 2$ supersymmetric operators. Nuclear Physics, Section B, Proceedings Supplements, 1999, 73, 315-317.	0.4	5
69	QCD in a moving frame: an exploratory study. EPJ Web of Conferences, 2018, 175, 14012.	0.3	5
70	Non-perturbative thermal QCD at all temperatures: the case of mesonic screening masses. Journal of High Energy Physics, 2022, 2022, 1.	4.7	5
71	Local multiboson factorization of the quark determinant. EPJ Web of Conferences, 2018, 175, 11005.	0.3	4
72	Multi-level Monte Carlo computation of the hadronic vacuum polarization contribution to $(g\hat{\alpha}^{-2})$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 816, 136191.	4.1	4

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73	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
74	Numerical exploration of the RI/MOM scheme gauge dependence. Nuclear Physics, Section B, Proceedings Supplements, 2003, 119, 962-964.	0.4	3
75	Non perturbative renormalization in coordinate space. Nuclear Physics, Section B, Proceedings Supplements, 2004, 129-130, 411-413.	0.4	3
76	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
77	New results from APE with nonperturbatively improved Wilson fermions. Nuclear Physics, Section B, Proceedings Supplements, 1999, 73, 222-224.	0.4	2
78	Topological susceptibility for the SU(3) Yang-Mills theory. Nuclear Physics, Section B, Proceedings Supplements, 2005, 140, 603-605.	0.4	2
79	Color structure of Yang-Mills theory with static sources in a periodic box. Physical Review D, 2015, 92, .	4.7	2
80	Light dynamical fermions on the lattice: toward the chiral regime of QCD. , 2006, , .		2
81	Weak matrix elements without quark masses on the lattice. Nuclear Physics, Section B, Proceedings Supplements, 2000, 86, 299-302.	0.4	1
82	NNLO unquenched calculation of the b quark mass. Nuclear Physics, Section B, Proceedings Supplements, 2000, 83-84, 286-288.	0.4	1
83	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
84	The UA(1) problem on the lattice. Nuclear Physics, Section B, Proceedings Supplements, 2002, 106-107, 1001-1003.	0.4	1
85	BK from quenched overlap QCD. Nuclear Physics, Section B, Proceedings Supplements, 2003, 119, 356-358.	0.4	1
86	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
87	Light quenched hadron spectrum and decay constants on different lattices. Nuclear Physics, Section B, Proceedings Supplements, 1997, 53, 203-205.	0.4	0
88	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
89	A simulation of the 't Hooft model at finite N_c with the overlap dirac operator. Nuclear Physics, Section B, Proceedings Supplements, 2002, 106-107, 733-735.	0.4	0
90	A lattice perspective of kaon phenomenology. European Physical Journal C, 2004, 33, s881-s884.	3.9	0

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91	Correlation functions at small quark masses with overlap fermions. Nuclear Physics, Section B, Proceedings Supplements, 2005, 140, 417-419.	0.4	0
92	Mechanisms of chiral symmetry breaking in QCD: A lattice perspective. AIP Conference Proceedings, 2016, , .	0.4	0
93	Low-mode averaging for baryon correlation functions. , 2005, , .		0
94	Lattice QCD simulations with two light dynamical (Wilson) quarks. , 2007, , .		0
95	Symmetries and exponential error reduction in YM theories on the lattice: theoretical aspects and simulation results. , 2010, , .		0
96	Measuring the entropy from shifted boundary conditions. , 2014, , .		0
97	Testing the Witten-Veneziano mechanism with the Yang-Mills gradient flow on the lattice. , 2015, , .		0
98	Thermodynamics of strongly interacting plasma with high accuracy. , 2017, , .		0
99	Domain decomposition and multilevel integration for fermions. , 2017, , .		0