

Haralambos G Panagopoulos

List of Publications by Year in descending order

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120
papers

3,081
citations

147801

31
h-index

168389

53
g-index

123
all docs

123
docs citations

123
times ranked

794
citing authors

#	ARTICLE	IF	CITATIONS
1	Field strength correlations in the QCD vacuum. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 285, 133-136.	4.1	176
2	$\hat{\Gamma}_1$ dependence of SU(N) gauge theories in the presence of a topological term. Physics Reports, 2009, 470, 93-150.	25.6	167
3	A complete non-perturbative renormalization prescription for quasi-PDFs. Nuclear Physics B, 2017, 923, 394-415.	2.5	137
4	$\hat{\Gamma}_1$ dependence of SU(N) gauge theories. Journal of High Energy Physics, 2002, 2002, 044-044.	4.7	123
5	The topological susceptibility on the lattice. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1988, 212, 206-210.	4.1	122
6	Gauge-invariant field strength correlations in QCD at zero and non-zero temperature. Nuclear Physics B, 1997, 483, 371-382.	2.5	120
7	Perturbative renormalization of quasi-parton distribution functions. Physical Review D, 2017, 96, .	4.7	116
8	Topological charge, renormalization and cooling on the lattice. Nuclear Physics B, 1990, 329, 683-697.	2.5	102
9	Non-perturbative renormalization of quark bilinear operators with N f = 2 (tmQCD) Wilson fermions and the tree-level improved gauge action. Journal of High Energy Physics, 2010, 2010, 1.	4.7	88
10	$\hat{\Gamma}_1$ from the non-perturbatively renormalised lattice three-gluon vertex. Nuclear Physics B, 1997, 502, 325-342.	2.5	85
11	Spectrum of confining strings in SU(N) gauge theories. Journal of High Energy Physics, 2002, 2002, 009-009.	4.7	71
12	Cooling and the string tension in lattice gauge theories. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1989, 225, 403-406.	4.1	69
13	Complete flavor decomposition of the spin and momentum fraction of the proton using lattice QCD simulations at physical pion mass. Physical Review D, 2020, 101, .	4.7	69
14	Change of $\hat{\Gamma}_1$ dependence in 4D SU(N) gauge theories. Physical Review D, 2013, 87, 054011.	7.8	62
15	Magnetic susceptibility of QCD at zero and at finite temperature from the lattice. Physical Review D, 2012, 86, .	4.7	58
16	Higher representations on the lattice: perturbative studies. Journal of High Energy Physics, 2008, 2008, 007-007.	4.7	56
17	The three-loop lattice free energy. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1994, 324, 433-436.	4.1	53
18	k-string tensions in SU(N) gauge theories. Physical Review D, 2001, 65, .	4.7	52

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19	One-loop renormalization of fermionic currents with the overlap-Dirac operator. Nuclear Physics B, 2000, 580, 394-406.	2.5	48
20	$\mathcal{O}(a^2)$ corrections to the one-loop propagator and bilinears of clover fermions with Symanzik improved gluons. Journal of High Energy Physics, 2009, 2009, 064-064.	4.7	47
21	Renormalization functions for $N_f=2$ and $N_f=4$ twisted mass fermions. Physical Review D, 2017, 95, .	4.7	46
22	The three-loop $\hat{\Gamma}^2$ -function of $SU(N)$ lattice gauge theories with Wilson fermions. Nuclear Physics B, 1998, 525, 387-400.	2.5	42
23	$\hat{\Gamma}_1$ dependence of the spectrum of $SU(N)$ gauge theories. Journal of High Energy Physics, 2006, 2006, 005-005.	4.7	39
24	The 4D $SU(3)$ gauge theory with an imaginary $\hat{\Gamma}_1$ term. Journal of High Energy Physics, 2011, 2011, 1.	4.7	39
25	Two-loop renormalization of vector, axial-vector, and tensor fermion bilinears on the lattice. Physical Review D, 2009, 79, .	4.7	38
26	Asymptotic scaling corrections in QCD with Wilson fermions from the 3-loop average plaquette. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 426, 361-366.	4.1	36
27	Renormalization constants for 2-twist operators in twisted mass QCD. Physical Review D, 2011, 83, .	4.7	36
28	Renormalization constants of local operators for Wilson type improved fermions. Physical Review D, 2012, 86, .	4.7	36
29	Topological susceptibility of $SU(N)$ gauge theories at finite temperature. Journal of High Energy Physics, 2004, 2004, 028-028.	4.7	35
30	The three-loop $\hat{\Gamma}^2$ function in $SU(N)$ lattice gauge theories. Nuclear Physics B, 1997, 491, 498-512.	2.5	31
31	Renormalization of local quark-bilinear operators for $N_f=3$ flavors of stout link nonperturbative clover fermions. Physical Review D, 2015, 91, .	4.7	31
32	Gluon momentum fraction of the nucleon from lattice QCD. Physical Review D, 2017, 96, .	4.7	30
33	Spontaneous breaking of local supersymmetry by gravitational instantons. Nuclear Physics B, 1988, 309, 201-219.	2.5	28
34	Improved lattice operators: Case of the topological charge density. Physical Review D, 1996, 53, 2619-2624.	4.7	28
35	The three-loop $\hat{\Gamma}^2$ -function of QCD with the clover action. Nuclear Physics B, 2002, 625, 198-210.	2.5	28
36	The topological susceptibility and lattice universality. Nuclear Physics B, 1990, 338, 294-316.	2.5	27

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37	The trilinear gluon condensate on the lattice. Nuclear Physics B, 1990, 332, 261-284.	2.5	26
38	Renormalization of Wilson-line operators in the presence of nonzero quark masses. Physical Review D, 2018, 98, .	4.7	26
39	The topological susceptibility of the pure SU(3) Yang-Mills vacuum on the lattice. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 252, 436-442.	4.1	25
40	Behaviour of the topological susceptibility across the deconfining phase transition. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 277, 491-495.	4.1	25
41	Critical mass of Wilson fermions: A comparison of perturbative and Monte Carlo results. Physical Review D, 2000, 63, .	4.7	24
42	$\hat{\Gamma}$ -parameter of lattice QCD with the overlap-Dirac operator. Nuclear Physics B, 2000, 571, 257-266.	2.5	24
43	One-loop renormalization of staple-shaped operators in continuum and lattice regularizations. Physical Review D, 2019, 99, .	4.7	24
44	Confining strings in representations with common-ality. Journal of High Energy Physics, 2003, 2003, 034-034.	4.7	23
45	Two separated SU(2) Yang-Mills-Higgs monopoles in the Atiyah-Drinfeld-Hitchin-Manin-Nahm construction. Physical Review D, 1982, 26, 854-863.	4.7	22
46	BK-parameter from $N_f=2$ twisted mass lattice QCD. Physical Review D, 2011, 83, .	4.7	21
47	Perturbatively improving regularization-invariant momentum scheme renormalization constants. Physical Review D, 2013, 87, .	4.7	19
48	Singlet versus nonsinglet perturbative renormalization of fermion bilinears. Physical Review D, 2016, 94, .	4.7	19
49	Lattice perturbation theory by computer algebra: A three-loop result for the topological susceptibility. Nuclear Physics B, 1994, 413, 553-564.	2.5	18
50	Two-loop renormalization of scalar and pseudoscalar fermion bilinears on the lattice. Physical Review D, 2007, 76, .	4.7	17
51	Topological charge density renormalization in the presence of dynamical fermions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 350, 70-74.	4.1	16
52	Generation of mass hierarchies and gravitational instanton-induced supersymmetry breaking. Nuclear Physics B, 1989, 323, 441-458.	2.5	15
53	The proton matrix element of the topological charge in quenched QCD. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1994, 336, 248-250.	4.1	14
54	$\hat{K}^{\dagger}\hat{\Gamma}$ matrix elements of the chromomagnetic operator on the lattice. Physical Review D, 2018, 97, .	4.7	14

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55	Multimonopoles in arbitrary gauge groups and the complete SU(2) two-monopole system. Physical Review D, 1983, 28, 380-384.	4.7	13
56	Status of $\hat{\Gamma}_{\pm}$ determinations from the non-perturbatively renormalised three-gluon vertex. Nuclear Physics, Section B, Proceedings Supplements, 1998, 63, 245-247.	0.4	13
57	Efficiency of the UV-filtered multiboson algorithm. Physical Review D, 2000, 61, .	4.7	13
58	Resummation of cactus diagrams in lattice QCD. Physical Review D, 1998, 58, .	4.7	12
59	Resummation of cactus diagrams in the clover improved lattice formulation of QCD. Physical Review D, 1999, 59, .	4.7	12
60	Free energy and plaquette expectation value for gluons on the lattice, in three dimensions. Physical Review D, 2006, 73, .	4.7	12
61	Renormalization of the chromomagnetic operator on the lattice. Physical Review D, 2015, 92, .	4.7	12
62	Supersymmetric QCD on the lattice: An exploratory study. Physical Review D, 2017, 96, .	4.7	12
63	A lattice determination of the slope of the topological susceptibility at $q^2=0$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1991, 253, 427-429.	4.1	11
64	Field strength correlators in QCD at zero and non-zero temperature. Nuclear Physics, Section B, Proceedings Supplements, 1997, 54, 343-347.	0.4	11
65	Off-equilibrium scaling behaviors across first-order transitions. Physical Review E, 2015, 92, 062107.	2.1	11
66	The scale dependence of lattice condensates. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 240, 423-428.	4.1	10
67	Critical hopping parameter in O(a) improved lattice QCD. Physical Review D, 2001, 65, .	4.7	10
68	A lattice determination of the slope at $q^2 = 0$ of the topological susceptibility in SU (3) Yang-Mills theory. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 291, 147-150.	4.1	9
69	Improved perturbation theory for improved lattice actions. Physical Review D, 2006, 74, .	4.7	9
70	Two-loop additive mass renormalization with clover fermions and Symanzik improved gluons. Physical Review D, 2008, 77, .	4.7	8
71	Perturbative renormalization functions of local operators for staggered fermions with stout improvement. Physical Review D, 2013, 88, .	4.7	8
72	Additive and multiplicative renormalization of topological charge with improved gluon and fermion actions: A test case for 3-loop vacuum calculations, using overlap or clover fermions. Physical Review D, 2005, 72, .	4.7	7

#	ARTICLE	IF	CITATIONS
73	Dynamic scaling behavior at thermal first-order transitions in systems with disordered boundary conditions. Physical Review D, 2018, 98, .	4.7	7
74	QCD with overlap fermions: Running coupling and the 3-loop β -function. Physical Review D, 2007, 76, .	4.7	6
75	Lattice free energy with overlap fermions: A two-loop result. Physical Review D, 2004, 70, .	4.7	5
76	Perturbative renormalization in parton distribution functions using overlap fermions and Symanzik improved gluons. Physical Review D, 2006, 73, .	4.7	5
77	β -parameter of lattice QCD with Symanzik improved gluon actions. Physical Review D, 2007, 76, .	4.7	5
78	The lattice free energy of QCD with clover fermions, up to three-loops. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 659, 252-259.	4.1	5
79	Supersymmetric QCD: Renormalization and mixing of composite operators. Physical Review D, 2019, 99, .	4.7	5
80	Renormalization and mixing of the Gluino-Gluon operator on the lattice. European Physical Journal C, 2021, 81, 1.	3.9	5
81	Gauge-invariant renormalization scheme in QCD: Application to fermion bilinears and the energy-momentum tensor. Physical Review D, 2021, 103, .	4.7	5
82	Fractional charges for the non-Abelian fermion-monopole system. Physical Review D, 1985, 31, 2567-2574.	4.7	4
83	Fermion-monopole system reexamined. IV. Physical Review D, 1985, 32, 2113-2133.	4.7	4
84	Topological charge, renormalization and cooling on the lattice. Nuclear Physics, Section B, Proceedings Supplements, 1990, 17, 634-638.	0.4	4
85	Three-loop results on the lattice. Nuclear Physics, Section B, Proceedings Supplements, 1993, 30, 243-246.	0.4	4
86	The two-loop relation between the bare lattice coupling and the coupling in QCD with Wilson fermions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 426, 121-124.	4.1	4
87	Spectrum of k-string tensions in SU(N) gauge theories. Nuclear Physics, Section B, Proceedings Supplements, 2002, 106-107, 688-690.	0.4	4
88	Perturbative renormalization factors and $O(a^2)$ corrections for lattice four-fermion operators with improved fermion/gluon actions. Physical Review D, 2011, 83, .	4.7	4
89	Two-loop renormalization and mixing of gluon and quark energy-momentum tensor operators. Physical Review D, 2021, 103, .	4.7	4
90	Gauge-invariant renormalization of the gluino-gluon operator. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 816, 136225.	4.1	4

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91	Improved multiboson algorithm. Nuclear Physics, Section B, Proceedings Supplements, 2000, 83-84, 765-767.	0.4	3
92	Higher Loop Results for the Plaquette, Using the Clover and Overlap Actions. Nuclear Physics, Section B, Proceedings Supplements, 2005, 140, 794-796.	0.4	3
93	Resummation of Cactus Diagrams in Lattice QCD, to all Orders. Nuclear Physics, Section B, Proceedings Supplements, 2000, 83-84, 884-886.	0.4	3
94	Universality and the β -parameter on a body-centered hypercubic lattice. Physical Review D, 1987, 36, 2563-2570.	4.7	2
95	Superinvariant chiral and vector fields. Journal of Mathematical Physics, 1987, 28, 1608-1618.	1.1	2
96	Gauge-fermion condensation in supersymmetric gauge theories with general compact lie groups. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1987, 191, 290-294.	4.1	2
97	O(a) improved QCD: The 3-loop beta-function, and the critical hopping parameter. Nuclear Physics, Section B, Proceedings Supplements, 2002, 106-107, 832-834.	0.4	2
98	Large Wilson loops with overlap and clover fermions: Two-loop evaluation of the b-quark mass shift and the quark-antiquark potential. Nuclear Physics B, 2008, 799, 1-18.	2.5	2
99	SU(N) gauge theories in the presence of a topological term. Journal of Physics: Conference Series, 2008, 110, 122005.	0.4	2
100	Progress in computing parton distribution functions from the quasi-PDF approach. EPJ Web of Conferences, 2018, 175, 06021.	0.3	2
101	Charm quark effects on the strong coupling extracted from the static force. EPJ Web of Conferences, 2018, 175, 10002.	0.3	2
102	String tension and flux tubes on the lattice. Nuclear Physics, Section B, Proceedings Supplements, 1990, 17, 563-566.	0.4	1
103	Towards a topological transition rate from high temperature lattice gauge theory. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1991, 258, 415-420.	4.1	1
104	The 3-loop beta function of QCD. Nuclear Physics, Section B, Proceedings Supplements, 1997, 53, 791-793.	0.4	1
105	Resummation of cactus diagrams in lattice QCD, to all orders. Nuclear Physics, Section B, Proceedings Supplements, 2000, 83-84, 884-886.	0.4	1
106	Free energy and β dependence of SU(N) gauge theories. Nuclear Physics, Section B, Proceedings Supplements, 2003, 119, 661-663.	0.4	1
107	Gauge theories with overlap fermions in an arbitrary representation: Evaluation of the 3-loop β^2 -function. Physical Review D, 2008, 77, .	4.7	1
108	Renormalization and mixing in lattice QCD: The case of the chromomagnetic operator. Journal of Physics: Conference Series, 2014, 562, 012002.	0.4	1

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109	Perturbative Renormalization of Wilson line operators. EPJ Web of Conferences, 2018, 175, 06025.	0.3	1
110	The two-loop average plaquette on the BCH lattice. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1988, 200, 129-132.	4.1	0
111	Lattice multiplicative renormalization beyond 1-loop. Nuclear Physics, Section B, Proceedings Supplements, 1994, 34, 501-503.	0.4	0
112	Fractal behaviour in the O(3) model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 352, 411-415.	4.1	0
113	Improving the topological charge density operator on the lattice. Nuclear Physics, Section B, Proceedings Supplements, 1996, 47, 266-269.	0.4	0
114	Three-loop results in QCD with Wilson fermions. Nuclear Physics, Section B, Proceedings Supplements, 1998, 63, 799-801.	0.4	0
115	Renormalization in lattice QCD: Some three-loop results. Nuclear Physics, Section B, Proceedings Supplements, 1999, 74, 345-348.	0.4	0
116	N-ality and topology at finite temperature. Nuclear Physics, Section B, Proceedings Supplements, 2005, 140, 606-608.	0.4	0
117	Simulating a CP-violating topological term in gauge theories. Journal of Physics: Conference Series, 2012, 348, 012002.	0.4	0
118	One-loop calculations in Supersymmetric Lattice QCD. EPJ Web of Conferences, 2017, 137, 13004.	0.3	0
119	Singlet vs Nonsinglet Perturbative Renormalization factors of Staggered Fermion Bilinears. EPJ Web of Conferences, 2018, 175, 14004.	0.3	0
120	Renormalization of Supersymmetric QCD on the Lattice. EPJ Web of Conferences, 2018, 175, 14001.	0.3	0