Haralambos G Panagopoulos

List of Publications by Year
in descending order

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	Two-loop renormalization and mixing of gluon and quark energy-momentum tensor operators. Physical Review D, 2021, 103, .	4.7	4
2	Renormalization and mixing of the Gluino-Glue operator on the lattice. European Physical Journal C, 2021, 81, 1.	3.9	5
3	Gauge-invariant renormalization of the gluino-glue operator. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 816, 136225.	4.1	4
4	Gauge-invariant renormalization scheme in QCD: Application to fermion bilinears and the energy-momentum tensor. Physical Review D, 2021, 103, .	4.7	5
5	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
6	Supersymmetric QCD: Renormalization and mixing of composite operators. Physical Review D, 2019, 99, .	4.7	5
7	One-loop renormalization of staple-shaped operators in continuum and lattice regularizations. Physical Review D, 2019, 99, .	4.7	24
8	Dynamic scaling behavior at thermal first-order transitions in systems with disordered boundary conditions. Physical Review D, 2018, 98, .	4.7	7
9	Singlet vs Nonsinglet Perturbative Renormalization factors of Staggered Fermion Bilinears. EPJ Web of Conferences, 2018, 175, 14004.	0.3	0
10	Progress in computing parton distribution functions from the quasi-PDF approach. EPJ Web of Conferences, 2018, 175, 06021.	0.3	2
11	Perturbative Renormalization of Wilson line operators. EPJ Web of Conferences, 2018, 175, 06025.	0.3	1
12	Renormalization of Supersymmetric QCD on the Lattice. EPJ Web of Conferences, 2018, 175, 14001.	0.3	0
13	Charm quark effects on the strong coupling extracted from the static force. EPJ Web of Conferences, 2018, 175, 10002.	0.3	2
14	Kâ†'Ï€ matrix elements of the chromomagnetic operator on the lattice. Physical Review D, 2018, 97, .	4.7	14
15	Renormalization of Wilson-line operators in the presence of nonzero quark masses. Physical Review D, 2018, 98, .	4.7	26
16	A complete non-perturbative renormalization prescription for quasi-PDFs. Nuclear Physics B, 2017, 923, 394-415.	2.5	137
17	Renormalization functions for Nf=2 and Nf=4 twisted mass fermions. Physical Review D, 2017, 95, .	4.7	46
18	Supersymmetric QCD on the lattice: An exploratory study. Physical Review D, 2017, 96, .	4.7	12

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19	Gluon momentum fraction of the nucleon from lattice QCD. Physical Review D, 2017, 96, .	4.7	30
20	Perturbative renormalization of quasi-parton distribution functions. Physical Review D, 2017, 96, .	4.7	116
21	One-loop calculations in Supersymmetric Lattice QCD. EPJ Web of Conferences, 2017, 137, 13004.	0.3	0
22	Singlet versus nonsinglet perturbative renormalization of fermion bilinears. Physical Review D, 2016, 94, .	4.7	19
23	Renormalization of the chromomagnetic operator on the lattice. Physical Review D, 2015, 92, .	4.7	12
24	Off-equilibrium scaling behaviors across first-order transitions. Physical Review E, 2015, 92, 062107.	2.1	11
25	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
26	Renormalization and mixing in lattice QCD: The case of the chromomagnetic operator. Journal of Physics: Conference Series, 2014, 562, 012002.	0.4	1
27	Perturbatively improving regularization-invariant momentum scheme renormalization constants. Physical Review D, 2013, 87, .	4.7	19
28	Perturbative renormalization functions of local operators for staggered fermions with stout improvement. Physical Review D, 2013, 88, .	4.7	8
29	Change of θ Dependence in 4D $SU(N)$ ... Physical Review Letters, 2013, 110, 252003.	7.8	62
30	Renormalization constants of local operators for Wilson type improved fermions. Physical Review D, 2012, 86, .	4.7	36
31	Magnetic susceptibility of QCD at zero and at finite temperature from the lattice. Physical Review D, 2012, 86, .	4.7	58
32	Simulating a CP-violating topological term in gauge theories. Journal of Physics: Conference Series, 2012, 348, 012002.	0.4	0
33	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
34	BK-parameter from $N_f=2$ twisted mass lattice QCD. Physical Review D, 2011, 83, .	4.7	21
35	Renormalization constants for 2-twist operators in twisted mass QCD. Physical Review D, 2011, 83, .	4.7	36
36	The 4D SU(3) gauge theory with an imaginary θ term. Journal of High Energy Physics, 2011, 2011, 1.	4.7	39

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37	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
38	?(a2) 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
39	Î¸ dependence of SU(N) gauge theories in the presence of a topological term. Physics Reports, 2009, 470, 93-150.	25.6	167
40	Two-loop renormalization of vector, axial-vector, and tensor fermion bilinears on the lattice. Physical Review D, 2009, 79, .	4.7	38
41	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
42	Large Wilson loops with overlap and clover fermions: Two-loop evaluation of the b-quark mass shift and the quarkâ€"antiquark potential. Nuclear Physics B, 2008, 799, 1-18.	2.5	2
43	Gauge theories with overlap fermions in an arbitrary representation: Evaluation of the 3-loopÎ²-function. Physical Review D, 2008, 77, .	4.7	1
44	Two-loop additive mass renormalization with clover fermions and Symanzik improved gluons. Physical Review D, 2008, 77, .	4.7	8
45	Higher representations on the lattice: perturbative studies. Journal of High Energy Physics, 2008, 2008, 007-007.	4.7	56
46	SU(<i>N</i>) gauge theories in the presence of a topological term. Journal of Physics: Conference Series, 2008, 110, 122005.	0.4	2
47	Two-loop renormalization of scalar and pseudoscalar fermion bilinears on the lattice. Physical Review D, 2007, 76, .	4.7	17
48	QCD with overlap fermions: Running coupling and the 3-loopβ-function. Physical Review D, 2007, 76, .	4.7	6
49	Λ-parameter of lattice QCD with Symanzik improved gluon actions. Physical Review D, 2007, 76, .	4.7	5
50	Improved perturbation theory for improved lattice actions. Physical Review D, 2006, 74, .	4.7	9
51	Free energy and plaquette expectation value for gluons on the lattice, in three dimensions. Physical Review D, 2006, 73, .	4.7	12
52	Î¸ dependence of the spectrum of SU(N) gauge theories. Journal of High Energy Physics, 2006, 2006, 005-005.	4.7	39
53	Perturbative renormalization in parton distribution functions using overlap fermions and Symanzik improved gluons. Physical Review D, 2006, 73, .	4.7	5
54	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

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55	N-ality and topology at finite temperature. Nuclear Physics, Section B, Proceedings Supplements, 2005, 140, 606-608.	0.4	0
56	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
57	Topological susceptibility of SU(N) gauge theories at finite temperature. Journal of High Energy Physics, 2004, 2004, 028-028.	4.7	35
58	Lattice free energy with overlap fermions: A two-loop result. Physical Review D, 2004, 70, .	4.7	5
59	Free energy and Î¸ dependence of SU(N) gauge theories. Nuclear Physics, Section B, Proceedings Supplements, 2003, 119, 661-663.	0.4	1
60	Confining strings in representations with commonn-ality. Journal of High Energy Physics, 2003, 2003, 034-034.	4.7	23
61	Spectrum of confining strings in SU(N) gauge theories. Journal of High Energy Physics, 2002, 2002, 009-009.	4.7	71
62	Î¸ dependence of SU(N) gauge theories. Journal of High Energy Physics, 2002, 2002, 044-044.	4.7	123
63	The three-loop Î²-function of QCD with the clover action. Nuclear Physics B, 2002, 625, 198-210.	2.5	28
64	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
65	Spectrum of k-string tensions in SU(N) gauge theories. Nuclear Physics, Section B, Proceedings Supplements, 2002, 106-107, 688-690.	0.4	4
66	Critical hopping parameter inO(a)improved lattice QCD. Physical Review D, 2001, 65, .	4.7	10
67	k-string tensions inSU(N)gauge theories. Physical Review D, 2001, 65, .	4.7	52
68	Improved multiboson algorithm. Nuclear Physics, Section B, Proceedings Supplements, 2000, 83-84, 765-767.	0.4	3
69	Resummation of cactus diagrams in lattice QCD, to all orders. Nuclear Physics, Section B, Proceedings Supplements, 2000, 83-84, 884-886.	0.4	1
70	Efficiency of the UV-filtered multiboson algorithm. Physical Review D, 2000, 61, .	4.7	13
71	Critical mass of Wilson fermions: A comparison of perturbative and Monte Carlo results. Physical Review D, 2000, 63, .	4.7	24
72	One-loop renormalization of fermionic currents with the overlap-Dirac operator. Nuclear Physics B, 2000, 580, 394-406.	2.5	48

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73	Λ-parameter of lattice QCD with the overlap-Dirac operator. Nuclear Physics B, 2000, 571, 257-266.	2.5	24
74	Resummation of Cactus Diagrams in Lattice QCD, to all Orders. Nuclear Physics, Section B, Proceedings Supplements, 2000, 83-84, 884-886.	0.4	3
75	Resummation of cactus diagrams in the clover improved lattice formulation of QCD. Physical Review D, 1999, 59, .	4.7	12
76	Renormalization in lattice QCD: Some three-loop results. Nuclear Physics, Section B, Proceedings Supplements, 1999, 74, 345-348.	0.4	0
77	Status of αs determinations from the non-perturbatively renormalised three-gluon vertex. Nuclear Physics, Section B, Proceedings Supplements, 1998, 63, 245-247.	0.4	13
78	Three-loop results in QCD with Wilson fermions. Nuclear Physics, Section B, Proceedings Supplements, 1998, 63, 799-801.	0.4	0
79	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
80	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
81	The three-loop β-function of SU(N) lattice gauge theories with Wilson fermions. Nuclear Physics B, 1998, 525, 387-400.	2.5	42
82	Resummation of cactus diagrams in lattice QCD. Physical Review D, 1998, 58, .	4.7	12
83	Gauge-invariant field strength correlations in QCD at zero and non-zero temperature. Nuclear Physics B, 1997, 483, 371-382.	2.5	120
84	The three-loop β function in SU(N) lattice gauge theories. Nuclear Physics B, 1997, 491, 498-512.	2.5	31
85	αs from the non-perturbatively renormalised lattice three-gluon vertex. Nuclear Physics B, 1997, 502, 325-342.	2.5	85
86	The 3-loop beta function of QCD. Nuclear Physics, Section B, Proceedings Supplements, 1997, 53, 791-793.	0.4	1
87	Field strength correlators in QCD at zero and non-zero temperature. Nuclear Physics, Section B, Proceedings Supplements, 1997, 54, 343-347.	0.4	11
88	Improving the topological charge density operator on the lattice. Nuclear Physics, Section B, Proceedings Supplements, 1996, 47, 266-269.	0.4	0
89	Improved lattice operators: Case of the topological charge density. Physical Review D, 1996, 53, 2619-2624.	4.7	28
90	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

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91	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
92	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
93	The three-loop lattice free energy. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1994, 324, 433-436.	4.1	53
94	Lattice multiplicative renormalization beyond 1-loop. Nuclear Physics, Section B, Proceedings Supplements, 1994, 34, 501-503.	0.4	0
95	Lattice perturbation theory by computer algebra: A three-loop result for the topological susceptibility. Nuclear Physics B, 1994, 413, 553-564.	2.5	18
96	Three-loop results on the lattice. Nuclear Physics, Section B, Proceedings Supplements, 1993, 30, 243-246.	0.4	4
97	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
98	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
99	A lattice determination of the slope at q2 = 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
100	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
101	A lattice determination of the slope of the topological susceptibility at q2=0. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1991, 253, 427-429.	4.1	11
102	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
103	The scale dependence of lattice condensates. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 240, 423-428.	4.1	10
104	String tension and flux tubes on the lattice. Nuclear Physics, Section B, Proceedings Supplements, 1990, 17, 563-566.	0.4	1
105	Topological charge, renormalization and cooling on the lattice. Nuclear Physics, Section B, Proceedings Supplements, 1990, 17, 634-638.	0.4	4
106	The trilinear gluon condensate on the lattice. Nuclear Physics B, 1990, 332, 261-284.	2.5	26
107	Topological charge, renormalization and cooling on the lattice. Nuclear Physics B, 1990, 329, 683-697.	2.5	102
108	The topological susceptibility and lattice universality. Nuclear Physics B, 1990, 338, 294-316.	2.5	27

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109	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
110	Generation of mass hierarchies and gravitational instanton-induced supersymmetry breaking. Nuclear Physics B, 1989, 323, 441-458.	2.5	15
111	The topological susceptibility on the lattice. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1988, 212, 206-210.	4.1	122
112	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
113	Spontaneous breaking of local supersymmetry by gravitational instantons. Nuclear Physics B, 1988, 309, 201-219.	2.5	28
114	Universality and the $\hat{I}$ parameter on a body-centered hypercubic lattice. Physical Review D, 1987, 36, 2563-2570.	4.7	2
115	Superinvariant chiral and vector fields. Journal of Mathematical Physics, 1987, 28, 1608-1618.	1.1	2
116	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
117	Fractional charges for the non-Abelian fermion-monopole system. Physical Review D, 1985, 31, 2567-2574.	4.7	4
118	Fermion-monopole system reexamined. IV. Physical Review D, 1985, 32, 2113-2133.	4.7	4
119	Multimonopoles in arbitrary gauge groups and the complete SU(2) two-monopole system. Physical Review D, 1983, 28, 380-384.	4.7	13
120	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