Costas G Papadopoulos

List of Publications by Year
in descending order

86 papers	6,958 citations	87888 38 h-index	66911 78 g-index
86 all docs	86 docs citations	86 times ranked	6640 citing authors

#	Article	IF	Citations
1	Two-loop non-planar hexa-box integrals with one massive leg. Journal of High Energy Physics, 2022, 2022, 1.	4.7	6
2	Analytic representation of all planar two-loop five-point Master Integrals with one off-shell leg. Journal of High Energy Physics, 2021, 2021, 1.	4.7	36
3	Progress on 2â€”loop Amplitude Reduction. Journal of Physics: Conference Series, 2021, 2105, 012010.	0.4	0
4	Progress on Feynman Integrals for 2 â† 3 scattering at NNLO. Journal of Physics: Conference Series, 2021, 2105, 012009.	0.4	0
5	Internal reduction method for computing Feynman integrals. Journal of High Energy Physics, 2020, 2020, 1.	4.7	23
6	FCC-hh: The Hadron Collider. European Physical Journal: Special Topics, 2019, 228, 755-1107.	2.6	367
7	HE-LHC: The High-Energy Large Hadron Collider. European Physical Journal: Special Topics, 2019, 228, 1109-1382.	2.6	108
8	FCC-ee: The Lepton Collider. European Physical Journal: Special Topics, 2019, 228, 261-623.	2.6	424
9	FCC Physics Opportunities. European Physical Journal C, 2019, 79, 1.	3.9	346
10	Cuts of Feynman Integrals in Baikov representation. Journal of High Energy Physics, 2017, 2017, 1.	4.7	72
11	The pentabox Master Integrals with the Simplified Differential Equations approach. Journal of High Energy Physics, 2016, 2016, 1-18.	4.7	25
12	Two-loop master integrals with the simplified differential equations approach. Journal of High Energy Physics, 2015, 2015, 1.	4.7	23
13	Simplified differential equations approach for Master Integrals. Journal of High Energy Physics, 2014, 2014, 1.	4.7	49
14	HELAC-NLO. Computer Physics Communications, 2013, 184, 986-997.	7.5	168
15	ttl„pair hadroproduction in association with a heavy boson at the NLO QCD accuracy + Parton Shower. Journal of Physics: Conference Series, 2013, 452, 012046.	0.4	0
16	Z0-boson production in association with attÂ¯pair at next-to-leading order accuracy with parton shower effects. Physical Review D, 2012, 85, .	4.7	19
17	Top quark pair production in association with aZ-boson at next-to-leading-order accuracy. Physical Review D, 2012, 85, .	4.7	48
18	t $ ar{mathrm{t}} $ WÂ± + t $ ar{mathrm{t}} $ Z hadroproduction at NLO accuracy in QCD with Parton Shower and Hadronization effects. Journal of High Energy Physics, 2012, 2012, 1.	4.7	121

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19	Counting to one: reducibility of one- and two-loop amplitudes at the integrand level. Journal of High Energy Physics, 2012, 2012, 1.	4.7	22
20	Hadronic top-quark pair production in association with two jets at next-to-leading order QCD. Physical Review D, 2011, 84, .	4.7	57
21	Top quark pair production in association with a jet at NLO accuracy with parton showering. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 705, 76-81.	4.1	47
22	Complete off-shell effects in top quark pair hadroproduction with leptonic decay at next-to-leading order. Journal of High Energy Physics, 2011, 2011, 1.	4.7	148
23	Loop QCD. Fortschritte Der Physik, 2011, 59, 1059-1065.	4.4	0
24	Standard Model Higgs boson production in association with a top anti-top pair at NLO with parton showering. Europhysics Letters, 2011, 96, 11001.	2.0	81
25	NLO QCD calculations with HELAC-NLO. Nuclear Physics, Section B, Proceedings Supplements, 2010, 205-206, 211-217.	0.4	11
26	Dominant QCD Backgrounds in Higgs Boson Analyses at the LHC: A Study of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>p</mml:mi><mml:mi>p</mml:mi><mml:mo>â†'</mml:mo><mml:mi>t</mml:mi><mml:mover accent="true"><mml:mi>t</mml:mi><mml:mo>Â¯</mml:mo></mml:mover><mml:mo>+</mml:mo><mml:mn>2</mml:mn></mml:math> at Next-to-Leading Order. Physical Review Letters, 2010, 104, 162002.	7.8	147
27	Automated one-loop calculations: a proof of concept. Journal of High Energy Physics, 2009, 2009, 106-106.	4.7	150
28	Polarizing the dipoles. Journal of High Energy Physics, 2009, 2009, 085-085.	4.7	103
29	Feynman rules for the rational part of the QCD 1-loop amplitudes. Journal of High Energy Physics, 2009, 2009, 072-072.	4.7	94
30	Assault on the NLO wishlist:ppâ†'ttÌ„,bbÌ„. Journal of High Energy Physics, 2009, 2009, 109-109.	4.7	194
31	Helac-Phegas: A generator for all parton level processes. Computer Physics Communications, 2009, 180, 1941-1955.	7.5	131
32	Path integrals in polar field variables in QFT. European Physical Journal C, 2009, 61, 495-518.	3.9	3
33	NLO corrections with the OPP method. Nuclear Physics, Section B, Proceedings Supplements, 2008, 183, 42-47.	0.4	1
34	Comparative study of various algorithms for the merging of parton showers and matrix elements in hadronic collisions. European Physical Journal C, 2008, 53, 473-500.	3.9	713
35	On the rational terms of the one-loop amplitudes. Journal of High Energy Physics, 2008, 2008, 004-004.	4.7	169
36	NLO QCD corrections to tri-boson production. Journal of High Energy Physics, 2008, 2008, 082-082.	4.7	85

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37	<tt>CutTools</tt>: a program implementing the<tt>OPP</tt>reduction method to compute one-loop amplitudes. Journal of High Energy Physics, 2008, 2008, 042-042.	4.7	330
38	Optimizing the reduction of one-loop amplitudes. Journal of High Energy Physics, 2008, 2008, 030-030.	4.7	89
39	Numerical evaluation of six-photon amplitudes. Journal of High Energy Physics, 2007, 2007, 085-085.	4.7	79
40	Reducing full one-loop amplitudes to scalar integrals at the integrand level. Nuclear Physics B, 2007, 763, 147-169.	2.5	513
41	Multi-parton cross sections at hadron colliders. European Physical Journal C, 2007, 50, 843-856.	3.9	48
42	A standard format for Les Houches Event Files. Computer Physics Communications, 2007, 176, 300-304.	7.5	295
43	HELAC - A MONTE CARLO GENERATOR FOR MULTI-JET PROCESSES. , 2007, , .		1
44	Multi-particle processes in QCD without Feynman diagrams. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 559, 278-281.	1.6	1
45	Recursive equations for arbitrary scattering processes. Nuclear Physics, Section B, Proceedings Supplements, 2006, 160, 255-260.	0.4	6
46	Diagrammatic proof of the BCFW recursion relation for gluon amplitudes in QCD. European Physical Journal C, 2006, 46, 741-750.	3.9	11
47	Physics potential and experimental challenges of the LHC luminosity upgrade. European Physical Journal C, 2005, 39, 293-333.	3.9	300
48	Cross sections for multi-particle final states at a linear collider. European Physical Journal C, 2004, 34, 173-180.	3.9	23
49	Recursive actions for scalar theories. European Physical Journal C, 2003, 28, 561-571.	3.9	1
50	Towards an effective-action approach to fermion-loop corrections. Nuclear Physics B, 2003, 667, 359-393.	2.5	10
51	Multi-jet production in hadron collisions. European Physical Journal C, 2002, 24, 447-458.	3.9	59
52	A hierarchical phase space generator for QCD antenna structures. European Physical Journal C, 2002, 25, 563-574.	3.9	40
53	HELAC-PHEGAS: Automatic computation of helicity amplitudes and cross sections. AIP Conference Proceedings, 2001, , .	0.4	14
54	Zero-dimensional field theory. European Physical Journal C, 2001, 19, 567-582.	3.9	13

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55	NEXTCALIBUR â€“ A four-fermion generator for electronâ€“positron collisions. Computer Physics Communications, 2001, 136, 148-172.	7.5	16
56	PHEGAS: A phase-space generator for automatic cross-section computation. Computer Physics Communications, 2001, 137, 247-254.	7.5	100
57	HELAC: A package to compute electroweak helicity amplitudes. Computer Physics Communications, 2000, 132, 306-315.	7.5	184
58	Single leptoquark production at high-energy e+eâ¯ colliders. Computer Physics Communications, 1999, 118, 81-91.	7.5	2
59	Quantum field theory for discrepancies II: 1/N corrections using fermions. Nuclear Physics B, 1999, 558, 604-620.	2.5	2
60	Physics with e+eâ¯ linear colliders. Physics Reports, 1998, 299, 1-78.	25.6	274
61	Studying trilinear gauge couplings at linear collider energies. European Physical Journal C, 1998, 2, 365-372.	3.9	11
62	On the computation of multigluon amplitudes. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 439, 157-164.	4.1	63
63	WEXTER and ERAFITTER: two programs to fit MW at LEP2 using the best measurable kinematical variables. Computer Physics Communications, 1998, 115, 32-44.	7.5	0
64	Report of the working group on the measurement of triple gauge boson couplings. Journal of Physics G: Nuclear and Particle Physics, 1998, 24, 405-419.	3.6	9
65	Fractals atT=Tcdue to Instantonlike Configurations. Physical Review Letters, 1998, 81, 4289-4292.	7.8	29
66	The fermion-loop scheme for finite-width effects in e+et- annihilation into four fermions. Nuclear Physics B, 1997, 500, 255-298.	2.5	80
67	Nullification in scalar theories with derivative couplings. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 392, 343-349.	4.1	0
68	ERATO: Event generator for four-fermion production at LEP2 energies and beyond. Computer Physics Communications, 1997, 101, 183-195.	7.5	17
69	Studying trilinear gauge couplings at LEP2 using optimal observables. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 386, 442-450.	4.1	12
70	On the determination of the trilinear boson couplings in at LEPII. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 352, 144-154.	4.1	29
71	Stable calculations for unstable particles: restoring gauge invariance. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 358, 339-346.	4.1	115
72	Criticality, fractality, and intermittency in strong interactions. Physical Review D, 1994, 49, 5789-5797.	4.7	6

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73	Partial-wave amplitudes and multiparticle production. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1994, 324, 66-71.	4.1	2
74	Single-W versus W-pair production at LEP II. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1994, 333, 202-206.	4.1	8
75	On amplitude zeros at threshold. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 302, 70-73.	4.1	14
76	Multiscalar amplitudes to all orders in perturbation theory. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 308, 292-296.	4.1	15
77	Nullification of multi-Higgs threshold amplitudes in the standard model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 308, 315-321.	4.1	15
78	Amplitude estimates for multi-Higgs production at high energies. Nuclear Physics B, 1993, 391, 42-56.	2.5	56
79	Cross-section estimates for multi-Higgs production at high energies. Nuclear Physics B, 1993, 391, 57-68.	2.5	19
80	Multiscalar production amplitudes beyond threshold. Nuclear Physics B, 1993, 395, 3-16.	2.5	13
81	Hadronic intermittency and chaotic motion in rapidity space. Physical Review E, 1993, 48, 3399-3405.	2.1	0
82	Intermittency in high-energy collisions and a phase transition in the Feynman-Wilson fluid. Physical Review D, 1992, 45, 4034-4045.	4.7	17
83	Perturbative unitary constraints on scalar self-interactions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 296, 139-142.	4.1	6
84	Unusual phenomena in the rapidity distribution and the phase transition of the quark-gluon plasma. Physical Review D, 1989, 39, 792-798.	4.7	1
85	Quantum dynamical aspects of two-dimensional spaces of constant negative curvature. Journal of Physics A, 1989, 22, 3577-3596.	1.6	7
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