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	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
2	Reducing full one-loop amplitudes to scalar integrals at the integrand level. Nuclear Physics B, 2007, 763, 147-169.	2.5	513
3	FCC-ee: The Lepton Collider. European Physical Journal: Special Topics, 2019, 228, 261-623.	2.6	424
4	FCC-hh: The Hadron Collider. European Physical Journal: Special Topics, 2019, 228, 755-1107.	2.6	367
5	FCC Physics Opportunities. European Physical Journal C, 2019, 79, 1.	3.9	346
6	<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
7	Physics potential and experimental challenges of the LHC luminosity upgrade. European Physical Journal C, 2005, 39, 293-333.	3.9	300
8	A standard format for Les Houches Event Files. Computer Physics Communications, 2007, 176, 300-304.	7.5	295
9	Physics with e+eâˆ' linear colliders. Physics Reports, 1998, 299, 1-78.	25.6	274
10	Assault on the NLO wishlist: <i>pp</i> â†' <i>t</i> tÌ„, <i>b</i> bÌ„. Journal of High Energy Physics, 2009, 2009, 109-109.	4.7	194
11	HELAC: A package to compute electroweak helicity amplitudes. Computer Physics Communications, 2000, 132, 306-315.	7.5	184
12	On the rational terms of the one-loop amplitudes. Journal of High Energy Physics, 2008, 2008, 004-004.	4.7	169
13	HELAC-NLO. Computer Physics Communications, 2013, 184, 986-997.	7.5	168
14	Automated one-loop calculations: a proof of concept. Journal of High Energy Physics, 2009, 2009, 106-106.	4.7	150
15	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
16	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
17	Helac-Phegas: A generator for all parton level processes. Computer Physics Communications, 2009, 180, 1941-1955.	7.5	131
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	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
20	HE-LHC: The High-Energy Large Hadron Collider. European Physical Journal: Special Topics, 2019, 228, 1109-1382.	2.6	108
21	Polarizing the dipoles. Journal of High Energy Physics, 2009, 2009, 085-085.	4.7	103
22	PHEGAS: A phase-space generator for automatic cross-section computation. Computer Physics Communications, 2001, 137, 247-254.	7.5	100
23	Feynman rules for the rational part of the QCD 1-loop amplitudes. Journal of High Energy Physics, 2009, 2009, 072-072.	4.7	94
24	Optimizing the reduction of one-loop amplitudes. Journal of High Energy Physics, 2008, 2008, 030-030.	4.7	89
25	NLO QCD corrections to tri-boson production. Journal of High Energy Physics, 2008, 2008, 082-082.	4.7	85
26	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
27	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
28	Numerical evaluation of six-photon amplitudes. Journal of High Energy Physics, 2007, 2007, 085-085.	4.7	79
29	Cuts of Feynman Integrals in Baikov representation. Journal of High Energy Physics, 2017, 2017, 1.	4.7	72
30	On the computation of multigluon amplitudes. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 439, 157-164.	4.1	63
31	Multi-jet production in hadron collisions. European Physical Journal C, 2002, 24, 447-458.	3.9	59
32	Hadronic top-quark pair production in association with two jets at next-to-leading order QCD. Physical Review D, 2011, 84, .	4.7	57
33	Amplitude estimates for multi-Higgs production at high energies. Nuclear Physics B, 1993, 391, 42-56.	2.5	56
34	Simplified differential equations approach for Master Integrals. Journal of High Energy Physics, 2014, 2014, 1.	4.7	49
35	Multi-parton cross sections at hadron colliders. European Physical Journal C, 2007, 50, 843-856.	3.9	48
36	Top quark pair production in association with aZ-boson at next-to-leading-order accuracy. Physical Review D, 2012, 85, .	4.7	48

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37	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
38	A hierarchical phase space generator for QCD antenna structures. European Physical Journal C, 2002, 25, 563-574.	3.9	40
39	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
40	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
41	Fractals at $T=T_c$ due to Instantonlike Configurations. Physical Review Letters, 1998, 81, 4289-4292.	7.8	29
42	The pentabox Master Integrals with the Simplified Differential Equations approach. Journal of High Energy Physics, 2016, 2016, 1-18.	4.7	25
43	Cross sections for multi-particle final states at a linear collider. European Physical Journal C, 2004, 34, 173-180.	3.9	23
44	Two-loop master integrals with the simplified differential equations approach. Journal of High Energy Physics, 2015, 2015, 1.	4.7	23
45	Internal reduction method for computing Feynman integrals. Journal of High Energy Physics, 2020, 2020, 1.	4.7	23
46	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
47	Cross-section estimates for multi-Higgs production at high energies. Nuclear Physics B, 1993, 391, 57-68.	2.5	19
48	Z0-boson production in association with a $t\bar{t}$-pair at next-to-leading order accuracy with parton shower effects. Physical Review D, 2012, 85, .	4.7	19
49	Intermittency in high-energy collisions and a phase transition in the Feynman-Wilson fluid. Physical Review D, 1992, 45, 4034-4045.	4.7	17
50	ERATO: Event generator for four-fermion production at LEP2 energies and beyond. Computer Physics Communications, 1997, 101, 183-195.	7.5	17
51	NEXTCALIBUR – A four-fermion generator for electron–positron collisions. Computer Physics Communications, 2001, 136, 148-172.	7.5	16
52	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
53	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
54	On amplitude zeros at threshold. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 302, 70-73.	4.1	14

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55	HELAC-PHEGAS: Automatic computation of helicity amplitudes and cross sections. AIP Conference Proceedings, 2001, , .	0.4	14
56	Multiscalar production amplitudes beyond threshold. Nuclear Physics B, 1993, 395, 3-16.	2.5	13
57	Zero-dimensional field theory. European Physical Journal C, 2001, 19, 567-582.	3.9	13
58			

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73	Single leptoquark production at high-energy e+eâ˜’ colliders. Computer Physics Communications, 1999, 118, 81-91.	7.5	2
74	Quantum field theory for discrepancies II: 1/N corrections using fermions. Nuclear Physics B, 1999, 558, 604-620.	2.5	2
75	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
76	Recursive actions for scalar theories. European Physical Journal C, 2003, 28, 561-571.	3.9	1
77	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
78	NLO corrections with the OPP method. Nuclear Physics, Section B, Proceedings Supplements, 2008, 183, 42-47.	0.4	1
79	HELAC - A MONTE CARLO GENERATOR FOR MULTI-JET PROCESSES. , 2007, , .		1
80	Hadronic intermittency and chaotic motion in rapidity space. Physical Review E, 1993, 48, 3399-3405.	2.1	0
81	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
82	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
83	Loop QCD. Fortschritte Der Physik, 2011, 59, 1059-1065.	4.4	0
84	<i>ttÌ„</i>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
85	Progress on 2â€"loop Amplitude Reduction. Journal of Physics: Conference Series, 2021, 2105, 012010.	0.4	0
86	Progress on Feynman Integrals for 2 â†' 3 scattering at NNLO. Journal of Physics: Conference Series, 2021, 2105, 012009.	0.4	0