

Frank Petriello

List of Publications by Year in descending order

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Version: 2024-02-01

47
papers

4,860
citations

126907

33
h-index

223800

46
g-index

47
all docs

47
docs citations

47
times ranked

6085
citing authors

#	ARTICLE	IF	CITATIONS
1	High-precision QCD at hadron colliders: Electroweak gauge boson rapidity distributions at next-to-next-to leading order. Physical Review D, 2004, 69, .	4.7	506
2	FEWZ 2.0: A code for hadronic Z production at next-to-next-to-leading order. Computer Physics Communications, 2011, 182, 2388-2403.	7.5	444
3	Electroweak gauge boson production at hadron colliders through $O(\hat{s}^2)$. Physical Review D, 2006, 74, .	4.7	407
4	Combining QCD and electroweak corrections to dilepton production in the framework of the FEWZ simulation code. Physical Review D, 2012, 86, .	4.7	250
5	Dilepton Rapidity Distribution in the Drell-Yan Process at Next-to-Next-to-Leading Order in QCD. Physical Review Letters, 2003, 91, 182002.	7.8	220
6	$\langle W \rangle$ -Boson Production in Association with a Jet at Next-to-Next-to-Leading Order in Perturbative QCD. Physical Review Letters, 2015, 115, 062002.	7.8	218
7	Fully differential Higgs boson production and the di-photon signal through next-to-next-to-leading order. Nuclear Physics B, 2005, 724, 197-246.	2.5	208
8	Higgs-Boson Production at Hadron Colliders: Differential Cross Sections through Next-to-Next-to-Leading Order. Physical Review Letters, 2004, 93, 262002.	7.8	182
9	Higgs boson production in association with a jet using jetiness subtraction. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 748, 5-8.	4.1	167
10	Higgs Boson Production in Association with a Jet at Next-to-Next-to-Leading Order. Physical Review Letters, 2015, 115, 082003.	7.8	165
11	Color-singlet production at NNLO in MCFM. European Physical Journal C, 2017, 77, 1.	3.9	160
12	$\langle Z \rangle$ -Boson Production in Association with a Jet at Next-To-Next-To-Leading Order in Perturbative QCD. Physical Review Letters, 2016, 116, 152001.	7.8	158
13	Higgs boson production in association with a jet at next-to-next-to-leading order in perturbative QCD. Journal of High Energy Physics, 2013, 2013, 1.	4.7	149
14	WBoson Production Cross Section at the Large Hadron Collider with $O(\hat{s}^2)$ Corrections. Physical Review Letters, 2006, 96, 231803.	7.8	146
15	A new method for real radiation at next-to-next-to-leading order. Physical Review D, 2004, 69, .	4.7	131
16	W physics at the LHC with FEWZ 2.1. Computer Physics Communications, 2013, 184, 209-214.	7.5	106
17	Higgs boson decays to quarkonia and the $\langle H \rangle$ coupling. Physical Review D, 2013, 88, .	4.7	104
18	Exclusive Window onto Higgs Yukawa Couplings. Physical Review Letters, 2015, 114, 101802.	7.8	80

#	ARTICLE	IF	CITATIONS
19	Power corrections in the N-jettiness subtraction scheme. Journal of High Energy Physics, 2017, 2017, 1.	4.7	72
20	Fixed target Drell-Yan data and NNLO QCD fits of parton distribution functions. Physical Review D, 2006, 74, .	4.7	69
21	Real Radiation at Next-to-Next-to-Leading Order in QCD: $e^+e^- \rightarrow \gamma^* 2\text{Jets through } O(\hat{s}^2)$. Physical Review Letters, 2004, 93, 032002.	7.8	68
22	Subtraction scheme for next-to-next-to-leading order computations. Physical Review D, 2012, 85, .	4.7	65
23	$\int d^4k \frac{1}{k^2} \frac{1}{(k-p)^2} \frac{1}{(k-p-q)^2} \frac{1}{k^2} \frac{1}{(k-p)^2} \frac{1}{(k-p-q)^2} \frac{1}{k^2} \frac{1}{(k-p)^2} \frac{1}{(k-p-q)^2}$ jettiness soft function at next-to-next-to-leading order. Physical Review D, 2015, 91, .	4.7	62
24	Measuring $Z \rightarrow \tau^+\tau^-$ couplings at the CERN LHC. Physical Review D, 2008, 77, .	4.7	60
25	$\int d^4k \frac{1}{k^2} \frac{1}{(k-p)^2} \frac{1}{(k-p-q)^2} \frac{1}{k^2} \frac{1}{(k-p)^2} \frac{1}{(k-p-q)^2}$ -boson plus jet differential distributions at NNLO in QCD. Physical Review D, 2016, 94, .	4.7	59
26	Factorization and resummation of Higgs boson differential distributions in soft-collinear effective theory. Physical Review D, 2010, 81, .	4.7	56
27	Phenomenology of the $Z \rightarrow \tau^+\tau^-$ boson plus jet process at NNLO. Physical Review D, 2016, 94, .	4.7	53
28	The electron energy spectrum in muon decay through $\gamma^* (\hat{s}^2)$. Journal of High Energy Physics, 2007, 2007, 014-014.	4.7	47
29	Relativistic corrections to Higgs boson decays to quarkonia. Physical Review D, 2014, 90, .	4.7	47
30	Next-to-leading-logarithmic power corrections for N -jettiness subtraction in color-singlet production. Physical Review D, 2018, 97, .	4.7	46
31	Reducing theoretical uncertainties for exclusive Higgs-boson plus one-jet production at the LHC. Physical Review D, 2013, 87, .	4.7	36
32	Single-inclusive jet production in electron-nucleon collisions through next-to-next-to-leading order in perturbative QCD. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 763, 52-59.	4.1	35
33	Combining resummed Higgs predictions across jet bins. Physical Review D, 2014, 89, .	4.7	33
34	The impact of the LHC Z-boson transverse momentum data on PDF determinations. Journal of High Energy Physics, 2017, 2017, 1.	4.7	32
35	Disentangling radiative corrections using the high-mass Drell-Yan process at the LHC. Physical Review D, 2014, 89, .	4.7	30
36	Reconstructing a \mathcal{L} Lagrangian using the LHC and low-energy data. Physical Review D, 2009, 80, .	4.7	24

#	ARTICLE	IF	CITATIONS
37	Transverse momentum distributions in the nonperturbative region. Physical Review D, 2011, 84, .	4.7	24
38	A comparison of NNLO QCD predictions with 7 TeV ATLAS and CMS data for V+jet processes. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 760, 6-13.	4.1	23
39	Rare exclusive decays of the Z boson revisited. Physical Review D, 2015, 92, .	4.7	20
40	Combining Monte Carlo generators with next-to-next-to-leading order calculations: event reweighting for Higgs boson production at the LHC. Journal of High Energy Physics, 2006, 2006, 037-037.	4.7	19
41	Exclusive soft function for Drell-Yan at next-to-next-to-leading order. Physical Review D, 2011, 84, .	4.7	19
42	Next-to-leading power corrections to $V+1$ jet production in N -jettiness subtraction. Physical Review D, 2020, 101, .	4.7	19
43	Inclusive jet production as a probe of polarized parton distribution functions at a future EIC. Physical Review D, 2018, 98, .	4.7	18
44	Gluon-fusion uncertainty in Higgs coupling extractions. Physical Review D, 2005, 72, .	4.7	11
45	Spin-dependent quark beam function at NNLO. Physical Review D, 2017, 96, .	4.7	11
46	TRANSVERSE MOMENTUM DISTRIBUTIONS FROM EFFECTIVE FIELD THEORY. International Journal of Modern Physics Conference Series, 2011, 04, 106-114.	0.7	1
47	Quantum chromodynamics effects in electroweak and Higgs physics. Pramana - Journal of Physics, 2012, 79, 555-562.	1.8	0