

# Fabrizio Caola

## List of Publications by Year in descending order

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49  
papers

1,869  
citations

236925

25  
h-index

254184

43  
g-index

49  
all docs

49  
docs citations

49  
times ranked

5244  
citing authors

#	ARTICLE	IF	CITATIONS
1	Higgs Boson Production in Association with a Jet at Next-to-Next-to-Leading Order. Physical Review Letters, 2015, 115, 082003.	7.8	165
2	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
3	Constraining the Higgs boson width with $ZZ$ production at the LHC. Physical Review D, 2013, 88, .	4.7	148
4	On the NNLO QCD corrections to single-top production at the LHC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 736, 58-63.	4.1	122
5	QCD corrections to $Z\bar{Z}$ production in gluon fusion at the LHC. Physical Review D, 2015, 92, .	4.7	98
6	Constraining anomalous $HVV$ interactions at proton and lepton colliders. Physical Review D, 2014, 89, .	4.7	97
7	Nested soft-collinear subtractions in NNLO QCD computations. European Physical Journal C, 2017, 77, 248.	3.9	90
8	QCD corrections to $W + W^{\prime}$ production through gluon fusion. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 754, 275-280.	4.1	84
9	$\mathcal{O}(\alpha_s^2)$ corrections to fully-differential top quark decays. Journal of High Energy Physics, 2013, 2013, 1.	4.7	68
10	Fiducial cross sections for Higgs boson production in association with a jet at next-to-next-to-leading order in QCD. Physical Review D, 2015, 92, .	4.7	53
11	Deviations from NLO QCD evolution in inclusive HERA data. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 686, 127-135.	4.1	46
12	Non-planar master integrals for the production of two off-shell vector bosons in collisions of massless partons. Journal of High Energy Physics, 2014, 2014, 1.	4.7	46
13	QCD corrections to vector boson pair production in gluon fusion including interference effects with off-shell Higgs at the LHC. Journal of High Energy Physics, 2016, 2016, 1.	4.7	42
14	Two-loop helicity amplitudes for the production of two off-shell electroweak bosons in gluon fusion. Journal of High Energy Physics, 2015, 2015, 1.	4.7	40
15	Jet-vetoed Higgs cross section in gluon fusion at N3LO+NNLL with small-R resummation. Journal of High Energy Physics, 2016, 2016, 1-31.	4.7	40
16	Signal-background interference effects for $gg \rightarrow H \gamma \gamma$ at leading order. Physical Review D, 2013, 88, .	4.7	35
17	Geometric Scaling from Dokshitzer-Gribov-Lipatov-Altarelli-Parisi Evolution. Physical Review Letters, 2008, 101, 022001.	7.8	33
18	Two-loop helicity amplitudes for the production of two off-shell electroweak bosons in quark-antiquark collisions. Journal of High Energy Physics, 2014, 2014, 1.	4.7	30

#	ARTICLE	IF	CITATIONS
19	Analytic results for color-singlet production at NNLO QCD with the nested soft-collinear subtraction scheme. <i>European Physical Journal C</i> , 2019, 79, 1.	3.9	29
20	NNLO QCD corrections to associated $W^+H$ production and $W^+b$ production and $W^+b$ decay. <i>Physical Review D</i> , 2018, 97, .	4.7	28
21	HERA data and DGLAP evolution: Theory and phenomenology. <i>Nuclear Physics A</i> , 2011, 854, 32-44.	1.5	27
22	The Higgs transverse momentum spectrum with finite quark masses beyond leading order. <i>Journal of High Energy Physics</i> , 2016, 2016, 1.	4.7	27
23	$Z$ production in gluon fusion at NLO matched to parton shower. <i>Physical Review D</i> , 2017, 95, .	4.7	27
24	Analytic results for decays of color singlets to $gg$ and $q\bar{q}$ final states at NNLO QCD with the nested soft-collinear subtraction scheme. <i>European Physical Journal C</i> , 2019, 79, 1013.	3.9	27
25	Diphoton Amplitudes in Three-Loop Quantum Chromodynamics. <i>Physical Review Letters</i> , 2021, 126, 112004.	7.8	26
26	Mixed QCD-electroweak corrections to on-shell $Z$ production at the LHC. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2020, 811, 135969.	4.1	25
27	The double-soft integral for an arbitrary angle between hard radiators. <i>European Physical Journal C</i> , 2018, 78, 1.	3.9	24
28	Mixed QCD-electroweak corrections to $W^+$ -boson production in hadron collisions. <i>Physical Review D</i> , 2021, 103, .	4.7	22
29	Small $x$ resummation of rapidity distributions: The case of Higgs production. <i>Nuclear Physics B</i> , 2011, 846, 167-211.	2.5	21
30	On the $O(\epsilon^2)$ corrections to $W^+b$ production. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2011, 698, 275-283.	4.1	21
31	Three-loop helicity amplitudes for four-quark scattering in massless QCD. <i>Journal of High Energy Physics</i> , 2021, 2021, 1.	4.7	18
32	Finite fermion mass effects in pseudoscalar Higgs production via gluon fusion. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2011, 698, 275-283.	4.1	17
33	Bottom-quark effects in Higgs production at intermediate transverse momentum. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	4.7	15
34	Three-loop helicity amplitudes for diphoton production in gluon fusion. <i>Journal of High Energy Physics</i> , 2022, 2022, 1.	4.7	15
35	Bottom-quark mass effects in associated $W^+H$ production with the $W^+b$ production. <i>Physical Review D</i> , 2018, 97, .	4.7	14
36	Analytic results for deep-inelastic scattering at NNLO QCD with the nested soft-collinear subtraction scheme. <i>European Physical Journal C</i> , 2020, 80, 1.	3.9	14

#	ARTICLE	IF	CITATIONS
37	On linear power corrections in certain collider observables. Journal of High Energy Physics, 2022, 2022, 1.	4.7	12
38	Anomalous couplings in associated $VH$ production with Higgs boson decay to massive $b$ quarks at NNLO in QCD. Physical Review D, 2022, 105, .	4.7	12
39	Three-Loop Gluon Scattering in QCD and the Gluon Regge Trajectory. Physical Review Letters, 2022, 128, .	7.8	10
40	NNLO QCD corrections to weak boson fusion Higgs boson production in the $H \rightarrow b\bar{b}$ and $H \rightarrow W^+W^- \gamma\gamma$ decay channels. Journal of High Energy Physics, 2022, 2022, 1.	4.7	9
41	Mixed QCD-electroweak corrections to dilepton production at the LHC in the high invariant mass region. Journal of High Energy Physics, 2022, 2022, .	4.7	9
42	Muon decay spin asymmetry. Physical Review D, 2014, 90, .	4.7	7
43	Noncancellation of infrared singularities in collisions of massive quarks. Physical Review D, 2021, 103, .	4.7	7
44	Estimating the impact of mixed QCD-electroweak corrections on the $W$ -mass determination at the LHC. Physical Review D, 2021, 103, .	4.7	7
45	Tree amplitudes and color decomposition in broken SU(2). Journal of High Energy Physics, 2012, 2012, 1.	4.7	5
46	Framing energetic top-quark pair production at the LHC. Journal of High Energy Physics, 2021, 2021, 1.	4.7	3
47	Parton distributions and small-x QCD at the Large Hadron Electron Collider. , 2009, , .		3
48	Complete next-to-leading order QCD description of resonant $Z\gamma$ production and decay into final states. Physical Review D, 2013, 87, .	4.7	2
49	A journey through small-x resummation. , 2018, , 173-204.		0