

# Simone Marzani

## List of Publications by Year in descending order

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Version: 2024-02-01

66  
papers

3,031  
citations

172457

29  
h-index

155660

55  
g-index

68  
all docs

68  
docs citations

68  
times ranked

5823  
citing authors

#	ARTICLE	IF	CITATIONS
1	Soft drop. Journal of High Energy Physics, 2014, 2014, 1.	4.7	446
2	Towards an understanding of jet substructure. Journal of High Energy Physics, 2013, 2013, 1.	4.7	336
3	Higgs production in gluon fusion at next-to-next-to-leading order QCD for finite top mass. European Physical Journal C, 2010, 66, 359-372.	3.9	142
4	Higgs production via gluon fusion with finite top mass beyond next-to-leading order. Nuclear Physics B, 2008, 800, 127-145.	2.5	133
5	Parton distributions with small-x resummation: evidence for BFKL dynamics in HERA data. European Physical Journal C, 2018, 78, 321.	3.9	118
6	Higgs production in gluon fusion beyond NNLO. Nuclear Physics B, 2013, 874, 746-772.	2.5	117
7	Looking Inside Jets. Lecture Notes in Physics, 2019, , .	0.7	99
8	Jet substructure with analytical methods. European Physical Journal C, 2013, 73, 1.	3.9	90
9	Sudakov safety in perturbative QCD. Physical Review D, 2015, 91, .	4.7	80
10	On jet mass distributions in Z+jet and dijet processes at the LHC. Journal of High Energy Physics, 2012, 2012, 1.	4.7	75
11	Thinking outside the ROCs: Designing Decorrelated Taggers (DDT) for jet substructure. Journal of High Energy Physics, 2016, 2016, 1.	4.7	75
12	Resummed Higgs cross section at N3LL. Journal of High Energy Physics, 2014, 2014, 1.	4.7	70
13	Non-global logarithms and jet algorithms in high-p T jet shapes. Journal of High Energy Physics, 2010, 2010, 1.	4.7	69
14	Exposing the QCD Splitting Function with CMS Open Data. Physical Review Letters, 2017, 119, 132003.	7.8	62
15	A study of jet mass distributions with grooming. Journal of High Energy Physics, 2017, 2017, 1.	4.7	61
16	On the Higgs cross section at N3LO+N3LL and its uncertainty. Journal of High Energy Physics, 2016, 2016, 1.	4.7	56
17	Predictions for Drell-Yan $\tau$ and $Q_T$ observables at the LHC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics	4.1	51
18	The jet mass distribution after Soft Drop. European Physical Journal C, 2018, 78, 96.	3.9	49

#	ARTICLE	IF	CITATIONS
19	Parton distributions with threshold resummation. Journal of High Energy Physics, 2015, 2015, 1.	4.7	48
20	High energy resummation of Drell-Yan processes. Nuclear Physics B, 2009, 814, 246-264.	2.5	45
21	Jet vetoing at the LHC. Journal of High Energy Physics, 2009, 2009, 023-023.	4.7	44
22	Updated Higgs cross section at approximate N <sup>3</sup> LO. Journal of Physics G: Nuclear and Particle Physics, 2014, 41, 095002.	3.6	44
23	Small-x resummation from HELL. European Physical Journal C, 2016, 76, 597.	3.9	42
24	NLO+NNLL squark and gluino production cross sections with threshold-improved parton distributions. European Physical Journal C, 2016, 76, 53.	3.9	41
25	Jet substructure studies with CMS open data. Physical Review D, 2017, 96, .	4.7	40
26	The dijet cross section with a jet veto. Journal of High Energy Physics, 2011, 2011, 1.	4.7	38
27	QCD resummation for hadronic final states. Journal of Physics G: Nuclear and Particle Physics, 2015, 42, 103101.	3.6	37
28	Top quark pair production beyond NNLO. Journal of High Energy Physics, 2015, 2015, 1.	4.7	37
29	QCD predictions for new variables to study dilepton transverse momenta at hadron colliders. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 701, 75-81.	4.1	36
30	Combining $\langle \sigma_{Q,T} \rangle$ and $x$ resummations. Physical Review D, 2016, 93, .	4.7	29
31	The Higgs transverse momentum spectrum with finite quark masses beyond leading order. Journal of High Energy Physics, 2016, 2016, 1.	4.7	27
32	Double Resummation for Higgs Production. Physical Review Letters, 2018, 120, 202003.	7.8	27
33	Towards parton distribution functions with small-x resummation: HELL 2.0. Journal of High Energy Physics, 2017, 2017, 1.	4.7	26
34	Jet angularities in Z+jet production at the LHC. Journal of High Energy Physics, 2021, 2021, 1.	4.7	25
35	BFKL next-to-next-to-leading order. Nuclear Physics B, 2007, 783, 143-175.	2.5	24
36	Boosted top production: factorization and resummation for single-particle inclusive distributions. Journal of High Energy Physics, 2014, 2014, 1.	4.7	24

#	ARTICLE	IF	CITATIONS
37	Fitting the strong coupling constant with soft-drop thrust. Journal of High Energy Physics, 2019, 2019, 1.	4.7	24
38	Towards machine learning analytics for jet substructure. Journal of High Energy Physics, 2020, 2020, 1.	4.7	24
39	Finite-top-mass effects in NNLO Higgs production. Nuclear Physics, Section B, Proceedings Supplements, 2009, 186, 98-101.	0.4	23
40	Soft evolution of multi-jet final states. Journal of High Energy Physics, 2015, 2015, 1.	4.7	22
41	Soft-drop thrust. Journal of High Energy Physics, 2018, 2018, 1.	4.7	22
42	Small $x$ resummation of rapidity distributions: The case of Higgs production. Nuclear Physics B, 2011, 846, 167-211.	2.5	21
43	Finite fermion mass effects in pseudoscalar Higgs production via gluon-gluon fusion. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 698, 275-283.	4.1	17
44	Probing the low transverse momentum domain of Z production with novel variables. Journal of High Energy Physics, 2012, 2012, 1.	4.7	17
45	Higgs boson tagging with the Lund jet plane. Physical Review D, 2021, 104, .	4.7	16
46	Phenomenology of jet angularities at the LHC. Journal of High Energy Physics, 2022, 2022, 1.	4.7	15
47	An optimal observable for color singlet identification. SciPost Physics, 2020, 9, .	4.9	11
48	Vector boson production in joint resummation. Journal of High Energy Physics, 2017, 2017, 1.	4.7	8
49	Four-loop splitting functions at small $x$ . Journal of High Energy Physics, 2018, 2018, 1.	4.7	7
50	Tagging the initial-state gluon. European Physical Journal C, 2021, 81, 1.	3.9	7
51	Theory predictions for the pull angle. Physical Review D, 2019, 99, .	4.7	6
52	$\langle Q_T \rangle$ and $\langle \hat{1} \rangle^*$ observables in Drell-Yan processes. EPJ Web of Conferences, 2013, 49, 14007.	0.3	4
53	Safe use of jet pull. Journal of High Energy Physics, 2020, 2020, 1.	4.7	4
54	Tagging the Higgs boson decay to bottom quarks with colour-sensitive observables and the Lund jet plane. European Physical Journal C, 2022, 82, .	3.9	2

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55	High-energy resummation at the LHC: the case of Drell-Yan processes. Nuclear Physics, Section B, Proceedings Supplements, 2010, 205-206, 25-30.	0.4	1
56	PHENOMENOLOGY OF ELECTROWEAK BOSONS AT HADRON COLLIDERS WITH NOVEL VARIABLES. Modern Physics Letters A, 2012, 27, 1230029.	1.2	1
57	Curiosities: Sudakov Safety. Lecture Notes in Physics, 2019, , 155-163.	0.7	0
58	Jets and Jet Algorithms. Lecture Notes in Physics, 2019, , 23-34.	0.7	0
59	Searches and Measurements with Jet Substructure. Lecture Notes in Physics, 2019, , 165-181.	0.7	0
60	Calculations for Jets: The Jet Mass Distribution. Lecture Notes in Physics, 2019, , 35-59.	0.7	0
61	Take-Home Messages and Perspectives. Lecture Notes in Physics, 2019, , 183-185.	0.7	0
62	Quark/Gluon Discrimination. Lecture Notes in Physics, 2019, , 113-128.	0.7	0
63	Calculations for the Jet Mass with Grooming. Lecture Notes in Physics, 2019, , 87-112.	0.7	0
64	Two-prong Tagging with Jet Shapes. Lecture Notes in Physics, 2019, , 129-154.	0.7	0
65	Introduction to QCD at Colliders. Lecture Notes in Physics, 2019, , 7-22.	0.7	0
66	Jet Substructure: Concepts and Tools. Lecture Notes in Physics, 2019, , 61-85.	0.7	0