

Simone Marzani

List of Publications by Year in descending order

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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	Phenomenology of jet angularities at the LHC. Journal of High Energy Physics, 2022, 2022, 1.	4.7	15
2	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
3	Jet angularities in Z+jet production at the LHC. Journal of High Energy Physics, 2021, 2021, 1.	4.7	25
4	Tagging the initial-state gluon. European Physical Journal C, 2021, 81, 1.	3.9	7
5	Higgs boson tagging with the Lund jet plane. Physical Review D, 2021, 104, .	4.7	16
6	Safe use of jet pull. Journal of High Energy Physics, 2020, 2020, 1.	4.7	4
7	Towards machine learning analytics for jet substructure. Journal of High Energy Physics, 2020, 2020, 1.	4.7	24
8	An optimal observable for color singlet identification. SciPost Physics, 2020, 9, .	4.9	11
9	Curiosities: Sudakov Safety. Lecture Notes in Physics, 2019, , 155-163.	0.7	0
10	Theory predictions for the pull angle. Physical Review D, 2019, 99, .	4.7	6
11	Looking Inside Jets. Lecture Notes in Physics, 2019, , .	0.7	99
12	Fitting the strong coupling constant with soft-drop thrust. Journal of High Energy Physics, 2019, 2019, 1.	4.7	24
13	Jets and Jet Algorithms. Lecture Notes in Physics, 2019, , 23-34.	0.7	0
14	Searches and Measurements with Jet Substructure. Lecture Notes in Physics, 2019, , 165-181.	0.7	0
15	Calculations for Jets: The Jet Mass Distribution. Lecture Notes in Physics, 2019, , 35-59.	0.7	0
16	Take-Home Messages and Perspectives. Lecture Notes in Physics, 2019, , 183-185.	0.7	0
17	Quark/Gluon Discrimination. Lecture Notes in Physics, 2019, , 113-128.	0.7	0
18	Calculations for the Jet Mass with Grooming. Lecture Notes in Physics, 2019, , 87-112.	0.7	0

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19	Two-prong Tagging with Jet Shapes. Lecture Notes in Physics, 2019, , 129-154.	0.7	0
20	Introduction to QCD at Colliders. Lecture Notes in Physics, 2019, , 7-22.	0.7	0
21	Jet Substructure: Concepts and Tools. Lecture Notes in Physics, 2019, , 61-85.	0.7	0
22	Parton distributions with small-x resummation: evidence for BFKL dynamics in HERA data. European Physical Journal C, 2018, 78, 321.	3.9	118
23	Soft-drop thrust. Journal of High Energy Physics, 2018, 2018, 1.	4.7	22
24	Four-loop splitting functions at small x. Journal of High Energy Physics, 2018, 2018, 1.	4.7	7
25	Double Resummation for Higgs Production. Physical Review Letters, 2018, 120, 202003.	7.8	27
26	The jet mass distribution after Soft Drop. European Physical Journal C, 2018, 78, 96.	3.9	49
27	Jet substructure studies with CMS open data. Physical Review D, 2017, 96, .	4.7	40
28	Exposing the QCD Splitting Function with CMS Open Data. Physical Review Letters, 2017, 119, 132003.	7.8	62
29	Vector boson production in joint resummation. Journal of High Energy Physics, 2017, 2017, 1.	4.7	8
30	A study of jet mass distributions with grooming. Journal of High Energy Physics, 2017, 2017, 1.	4.7	61
31	Towards parton distribution functions with small-x resummation: HELL 2.0. Journal of High Energy Physics, 2017, 2017, 1.	4.7	26
32	On the Higgs cross section at N3LO+N3LL and its uncertainty. Journal of High Energy Physics, 2016, 2016, 1.	4.7	56
33	Combining Q_T and small- x resummations. Physical Review D, 2016, 93, .	4.7	29
34	Small-x resummation from HELL. European Physical Journal C, 2016, 76, 597.	3.9	42
35	Thinking outside the ROCs: Designing Decorrelated Taggers (DDT) for jet substructure. Journal of High Energy Physics, 2016, 2016, 1.	4.7	75
36	The Higgs transverse momentum spectrum with finite quark masses beyond leading order. Journal of High Energy Physics, 2016, 2016, 1.	4.7	27

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37	NLO+NLL squark and gluino production cross sections with threshold-improved parton distributions. <i>European Physical Journal C</i> , 2016, 76, 53.	3.9	41
38	Sudakov safety in perturbative QCD. <i>Physical Review D</i> , 2015, 91, .	4.7	80
39	QCD resummation for hadronic final states. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2015, 42, 103101.	3.6	37
40	Top quark pair production beyond NNLO. <i>Journal of High Energy Physics</i> , 2015, 2015, 1.	4.7	37
41	Parton distributions with threshold resummation. <i>Journal of High Energy Physics</i> , 2015, 2015, 1.	4.7	48
42	Soft evolution of multi-jet final states. <i>Journal of High Energy Physics</i> , 2015, 2015, 1.	4.7	22
43	Updated Higgs cross section at approximate N ³ LO. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2014, 41, 095002.	3.6	44
44	Resummed Higgs cross section at N ³ LL. <i>Journal of High Energy Physics</i> , 2014, 2014, 1.	4.7	70
45	Boosted top production: factorization and resummation for single-particle inclusive distributions. <i>Journal of High Energy Physics</i> , 2014, 2014, 1.	4.7	24
46	Soft drop. <i>Journal of High Energy Physics</i> , 2014, 2014, 1.	4.7	446
47	Higgs production in gluon fusion beyond NNLO. <i>Nuclear Physics B</i> , 2013, 874, 746-772.	2.5	117
48	Towards an understanding of jet substructure. <i>Journal of High Energy Physics</i> , 2013, 2013, 1.	4.7	336
49	Jet substructure with analytical methods. <i>European Physical Journal C</i> , 2013, 73, 1.	3.9	90
50	Q_T and \hat{T}_1^* observables in Drell-Yan processes. <i>EPJ Web of Conferences</i> , 2013, 49, 14007.	0.3	4
51	PHENOMENOLOGY OF ELECTROWEAK BOSONS AT HADRON COLLIDERS WITH NOVEL VARIABLES. <i>Modern Physics Letters A</i> , 2012, 27, 1230029.	1.2	1
52	On jet mass distributions in Z+jet and dijet processes at the LHC. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	4.7	75
53	Predictions for Drell-Yan Q_T and \hat{T}_1^* observables at the LHC. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i>	4.1	51
54	Probing the low transverse momentum domain of Z production with novel variables. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	4.7	17

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55	Small x resummation of rapidity distributions: The case of Higgs production. Nuclear Physics B, 2011, 846, 167-211.	2.5	21
56	The dijet cross section with a jet veto. Journal of High Energy Physics, 2011, 2011, 1.	4.7	38
57	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
58	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
59	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
60	Non-global logarithms and jet algorithms in high- p_T jet shapes. Journal of High Energy Physics, 2010, 2010, 1.	4.7	69
61	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
62	Jet vetoing at the LHC. Journal of High Energy Physics, 2009, 2009, 023-023.	4.7	44
63	Finite-top-mass effects in NNLO Higgs production. Nuclear Physics, Section B, Proceedings Supplements, 2009, 186, 98-101.	0.4	23
64	High energy resummation of Drell-Yan processes. Nuclear Physics B, 2009, 814, 246-264.	2.5	45
65	Higgs production via gluon-gluon fusion with finite top mass beyond next-to-leading order. Nuclear Physics B, 2008, 800, 127-145.	2.5	133
66	BFKL next-to-next-to-leading order. Nuclear Physics B, 2007, 783, 143-175.	2.5	24