

Matteo Cacciari

List of Publications by Year in descending order

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81
papers

15,223
citations

94433

37
h-index

79698

73
g-index

82
all docs

82
docs citations

82
times ranked

8210
citing authors

#	ARTICLE	IF	CITATIONS
1	The anti- k_t jet clustering algorithm. Journal of High Energy Physics, 2008, 2008, 063-063.	4.7	4,179
2	FastJet user manual. European Physical Journal C, 2012, 72, 1.	3.9	3,284
3	Dispelling the μ puzzle. Journal of High Energy Physics, 2008, 2008, 005-005.	4.1	1,069
4	Pileup subtraction using jet areas. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 659, 119-126.	4.1	693
5	The p_T spectrum in heavy-flavour hadroproduction. Journal of High Energy Physics, 1998, 1998, 007-007.	4.7	548
6	The catchment area of jets. Journal of High Energy Physics, 2008, 2008, 005-005.	4.7	472
7	Top-pair production at hadron colliders with next-to-next-to-leading logarithmic soft-gluon resummation. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 710, 612-622.	4.1	413
8	QCD Predictions for Charm and Bottom Quark Production at RHIC. Physical Review Letters, 2005, 95, 122001.	7.8	384
9	Theoretical predictions for charm and bottom production at the LHC. Journal of High Energy Physics, 2012, 2012, 1.	4.7	369
10	Physics with e^+e^- linear colliders. Physics Reports, 1998, 299, 1-78.	25.6	274
11	The p_T spectrum in heavy-flavour photoproduction. Journal of High Energy Physics, 2001, 2001, 006-006.	4.7	270
12	NLO production and decay of quarkonium. Nuclear Physics B, 1998, 514, 245-309.	2.5	259
13	Heavy-ion collisions at the LHC – Last call for predictions. Journal of Physics G: Nuclear and Particle Physics, 2008, 35, 054001.	3.6	255
14	Updated predictions for the total production cross sections of top and of heavier quark pairs at the Tevatron and at the LHC. Journal of High Energy Physics, 2008, 2008, 127-127.	4.7	193
15	Fully Differential Vector-Boson-Fusion Higgs Production at Next-to-Next-to-Leading Order. Physical Review Letters, 2015, 115, 082002.	7.8	177
16	Color-Octet Contributions to J/ψ Photoproduction. Physical Review Letters, 1996, 76, 4128-4131.	7.8	135
17	How sensitive are high- p_T electron spectra at RHIC to heavy quark energy loss?. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2006, 637, 362-366.	4.1	128
18	Boosted objects and jet substructure at the LHC. Report of BOOST2012, held at IFIC Valencia, 23rd – 27th of July 2012. European Physical Journal C, 2014, 74, 1.	3.9	124

#	ARTICLE	IF	CITATIONS
19	Proton-nucleus collisions at the LHC: scientific opportunities and requirements. Journal of Physics G: Nuclear and Particle Physics, 2012, 39, 015010.	3.6	120
20	Is There a Significant Excess in Bottom Hadroproduction at the Tevatron?. Physical Review Letters, 2002, 89, 122003.	7.8	118
21	Soft-gluon resummation for the fragmentation of light and heavy quarks at large x. Nuclear Physics B, 2001, 617, 253-290.	2.5	109
22	Charmonium production at the Tevatron. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 356, 553-560.	4.1	105
23	Large-p _T hadroproduction of heavy quarks. Nuclear Physics B, 1994, 421, 530-544.	2.5	101
24	J/ψ Production via Fragmentation at the Fermilab Tevatron. Physical Review Letters, 1994, 73, 1586-1589.	7.8	97
25	Charm cross sections for the Tevatron Run II. Journal of High Energy Physics, 2003, 2003, 006-006.	4.7	97
26	Gluon PDF constraints from the ratio of forward heavy-quark production at the LHC at $\sqrt{s} = 7$ and 13 TeV. European Physical Journal C, 2015, 75, 610.	3.9	97
27	On the characterisation of the underlying event. Journal of High Energy Physics, 2010, 2010, 1.	4.7	86
28	Pileup Subtraction for Jet Shapes. Physical Review Letters, 2013, 110, 162001.	7.8	75
29	SoftKiller, a particle-level pileup removal method. European Physical Journal C, 2015, 75, 59.	3.9	69
30	Meaningful characterisation of perturbative theoretical uncertainties. Journal of High Energy Physics, 2011, 2011, 1.	4.7	64
31	A study of heavy flavoured meson fragmentation functions in e^+e^- annihilation. Journal of High Energy Physics, 2006, 2006, 006-006.	4.7	62
32	Jet reconstruction in heavy ion collisions. European Physical Journal C, 2011, 71, 1.	3.9	50
33	Constraint fitting of experimental data with a jet quenching model embedded in a hydrodynamical bulk medium. Journal of Physics G: Nuclear and Particle Physics, 2010, 37, 025104.	3.6	47
34	D* production from e^+e^- to pp collisions in NLO QCD. Physical Review D, 1997, 55, 7134-7143.	4.7	44
35	Quantifying the performance of jet definitions for kinematic reconstruction at the LHC. Journal of High Energy Physics, 2008, 2008, 032-032.	4.7	42
36	Novel tools and observables for jet physics in heavy-ion collisions. Journal of Physics G: Nuclear and Particle Physics, 2020, 47, 065102.	3.6	42

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37	Heavy-quark fragmentation. Nuclear Physics B, 2003, 664, 299-340.	2.5	40
38	The physics of hadrons. Nuclear Physics B, 1996, 466, 173-186.	2.5	35
39	QED Structure Functions: A Systematic Approach. Europhysics Letters, 1992, 17, 123-128.	2.0	34
40	Fluctuations and asymmetric jet events in PbPb collisions at the LHC. European Physical Journal C, 2011, 71, 1.	3.9	33
41	An extensive survey of the estimation of uncertainties from missing higher orders in perturbative calculations. Journal of High Energy Physics, 2015, 2015, 1.	4.7	31
42	The present theoretical error on the Bhabha scattering cross section in the luminometry region at LEP. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 383, 238-242.	4.1	30
43	Charm photoproduction via fragmentation. Zeitschrift für Physik C-Particles and Fields, 1996, 69, 459-465.	1.5	27
44	Soft-Gluon Resummation for Bottom Fragmentation in Top Quark Decay. Journal of High Energy Physics, 2002, 2002, 015-015.	4.7	27
45	The partonic structure of the electron at the next-to-leading logarithmic accuracy in QED. Journal of High Energy Physics, 2020, 2020, 1.	4.7	23
46	Challenges in Monte Carlo Event Generator Software for High-Luminosity LHC. Computing and Software for Big Science, 2021, 5, 1.	2.9	23
47	Charmed meson fragmentation functions. Physical Review D, 1997, 55, 2736-2740.	4.7	22
48	Crossing heavy-flavour thresholds in fragmentation functions. Journal of High Energy Physics, 2005, 2005, 034-034.	4.7	20
49	SABSPV – A Monte Carlo integrator for small-angle Bhabha scattering. Computer Physics Communications, 1995, 90, 301-310.	7.5	19
50	Bhabha scattering at LEP. Small angle. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1991, 271, 431-434.	4.1	17
51	Bhabha scattering at LEP. Large angle. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1991, 268, 441-446.	4.1	16
52	A note on the fate of the Landau–Yang theorem in non-Abelian gauge theories. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 753, 476-481.	4.1	14
53	A critical analysis of radiative corrections to Bhabha scattering. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 279, 384-388.	4.1	13
54	QCD radiative corrections to $\hat{\sigma}^{*}(\hat{s}^*)$ hadrons. Journal of High Energy Physics, 2001, 2001, 029-029.	4.7	13

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55	Latest results from NA60. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2006, 32, S51-S60.	3.6	9
56	Higher order QED corrections to W pair production at LEP II. <i>Zeitschrift für Physik C-Particles and Fields</i> , 1991, 52, 421-426.	1.5	8
57	A critical analysis of radiative corrections to $e^+e^- \rightarrow \hat{\sigma}^{1/4} + \hat{\sigma}^{1/4}$. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1992, 286, 387-391.	4.1	8
58	Collinear photons from final state leptons. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1992, 274, 473-476.	4.1	8
59	Associated $J/\psi + \hat{\sigma}^3$ photoproduction as a probe of the color-octet mechanism. <i>Physical Review D</i> , 1997, 55, 7126-7133.	4.7	8
60	Jet fragmentation function moments in heavy ion collisions. <i>European Physical Journal C</i> , 2013, 73, 1.	3.9	8
61	QCD predictions of heavy quark production at RHIC. <i>Nuclear Physics A</i> , 2006, 774, 661-664.	1.5	7
62	Use of charged-track information to subtract neutral pileup. <i>Physical Review D</i> , 2015, 92, .	4.7	7
63	Phenomenological and theoretical developments in jet physics at the LHC. <i>International Journal of Modern Physics A</i> , 2015, 30, 1546001.	1.5	7
64	Single-jet inclusive cross section and its definition. <i>Physical Review D</i> , 2019, 100, .	4.7	6
65	Soft-gluon resummation in heavy quarkonium physics. <i>Nuclear Physics B</i> , 2000, 571, 185-196.	2.5	4
66	Heavy-to-light ratios as a test of medium-induced energy loss at RHIC and the LHC. <i>Nuclear Physics A</i> , 2006, 774, 589-592.	1.5	4
67	Heavy-quark energy loss at RHIC and LHC. <i>AIP Conference Proceedings</i> , 2006, , .	0.4	3
68	Heavy Quark Production: Theory. <i>Nuclear Physics A</i> , 2007, 783, 189-196.	1.5	3
69	FASTJET: DISPELLING THE $N^{>3}$ MYTH FOR THE $k_{t,sub} < t_{sub} < /sub >$ JET-FINDER. , 2007, , .		2
70	QCD Predictions for Charm and Bottom Production at RHIC. , 2007, , .		2
71	Phenomenology of heavy quarkonium production. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 1999, 71, 431-440.	0.4	1
72	Perturbative and non-perturbative aspects of heavy-quark fragmentation. <i>European Physical Journal C</i> , 2004, 33, s876-s880.	3.9	1

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73	Heavy Flavour Production at the Tevatron. Nuclear Physics, Section B, Proceedings Supplements, 2004, 135, 61-65.	0.4	1
74	pQCD calculations of heavy quark and $\langle i \rangle J \langle /i \rangle / \hat{\Gamma}$ production. Journal of Physics G: Nuclear and Particle Physics, 2007, 34, S479-S485.	3.6	1
75	Intermediate vector boson pair production at the TeV scale. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1991, 269, 208-212.	4.1	0
76	Charm photoproduction via fragmentation. Zeitschrift für Physik C-Particles and Fields, 1995, 69, 459-465.	1.5	0
77	Hadronic production of heavy quarks. , 1998, , .		0
78	Progress and problems in QCD " Report from the hadronic final states working group at DIS99. Nuclear Physics, Section B, Proceedings Supplements, 1999, 79, 740-754.	0.4	0
79	Standard Model theory calculations and experimental tests. Comptes Rendus Physique, 2015, 16, 368-378.	0.9	0
80	Power Corrections for Jets at Hadron Colliders. , 2007, , .		0
81	Summary of the Heavy Flavour Working Group. , 2008, , .		0