

# Matteo Cacciari

## List of Publications by Year in descending order

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81  
papers

15,223  
citations

108046

37  
h-index

90395

73  
g-index

82  
all docs

82  
docs citations

82  
times ranked

8328  
citing authors

#	ARTICLE	IF	CITATIONS
1	Challenges in Monte Carlo Event Generator Software for High-Luminosity LHC. Computing and Software for Big Science, 2021, 5, 1.	1.3	23
2	The partonic structure of the electron at the next-to-leading logarithmic accuracy in QED. Journal of High Energy Physics, 2020, 2020, 1.	1.6	23
3	Novel tools and observables for jet physics in heavy-ion collisions. Journal of Physics G: Nuclear and Particle Physics, 2020, 47, 065102.	1.4	42
4	Single-jet inclusive cross section and its definition. Physical Review D, 2019, 100, .	1.6	6
5	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.	1.5	14
6	Use of charged-track information to subtract neutral pileup. Physical Review D, 2015, 92, .	1.6	7
7	Fully Differential Vector-Boson-Fusion Higgs Production at Next-to-Next-to-Leading Order. Physical Review Letters, 2015, 115, 082002.	2.9	177
8	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.	1.4	97
9	Phenomenological and theoretical developments in jet physics at the LHC. International Journal of Modern Physics A, 2015, 30, 1546001.	0.5	7
10	Standard Model theory calculations and experimental tests. Comptes Rendus Physique, 2015, 16, 368-378.	0.3	0
11	SoftKiller, a particle-level pileup removal method. European Physical Journal C, 2015, 75, 59.	1.4	69
12	An extensive survey of the estimation of uncertainties from missing higher orders in perturbative calculations. Journal of High Energy Physics, 2015, 2015, 1.	1.6	31
13	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.	1.4	124
14	Jet fragmentation function moments in heavy ion collisions. European Physical Journal C, 2013, 73, 1.	1.4	8
15	Pileup Subtraction for Jet Shapes. Physical Review Letters, 2013, 110, 162001.	2.9	75
16	Proton–nucleus collisions at the LHC: scientific opportunities and requirements. Journal of Physics G: Nuclear and Particle Physics, 2012, 39, 015010.	1.4	120
17	Theoretical predictions for charm and bottom production at the LHC. Journal of High Energy Physics, 2012, 2012, 1.	1.6	369
18	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.	1.5	413

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19	FastJet user manual. European Physical Journal C, 2012, 72, 1.	1.4	3,284
20	Jet reconstruction in heavy ion collisions. European Physical Journal C, 2011, 71, 1.	1.4	50
21	Fluctuations and asymmetric jet events in PbPb collisions at the LHC. European Physical Journal C, 2011, 71, 1.	1.4	33
22	Meaningful characterisation of perturbative theoretical uncertainties. Journal of High Energy Physics, 2011, 2011, 1.	1.6	64
23	On the characterisation of the underlying event. Journal of High Energy Physics, 2010, 2010, 1.	1.6	86
24	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.	1.4	47
25	Pileup subtraction using jet areas. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 659, 119-126.	1.5	693
26	Heavy-ion collisions at the LHC – Last call for predictions. Journal of Physics G: Nuclear and Particle Physics, 2008, 35, 054001.	1.4	255
27	The anti- $k$ jet clustering algorithm. Journal of High Energy Physics, 2008, 2008, 063-063.	1.6	4,179
28	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.	1.6	193
29	The catchment area of jets. Journal of High Energy Physics, 2008, 2008, 005-005.	1.6	472
30	Quantifying the performance of jet definitions for kinematic reconstruction at the LHC. Journal of High Energy Physics, 2008, 2008, 032-032.	1.6	42
31	Summary of the Heavy Flavour Working Group. , 2008, , .		0
32	pQCD calculations of heavy quark and $J/\psi$ production. Journal of Physics G: Nuclear and Particle Physics, 2007, 34, S479-S485.	1.4	1
33	Heavy Quark Production: Theory. Nuclear Physics A, 2007, 783, 189-196.	0.6	3
34	FASTJET: DISPELLING THE $N^3$ MYTH FOR THE $k_t$ JET-FINDER. , 2007, , .		2
35	Power Corrections for Jets at Hadron Colliders. , 2007, , .		0
36	QCD Predictions for Charm and Bottom Production at RHIC. , 2007, , .		2

#	ARTICLE	IF	CITATIONS
37	How sensitive are high- electron spectra at RHIC to heavy quark energy loss?. Physics Letters, Section B: Nuclear, Elementary Particle and High Energy Physics, 2006, 637, 362-366.	1.5	128
38	Dispelling the $\langle \text{mml:math altimg="srl.gif" overflow="scroll" \rangle$	1.5	1,069
39	Heavy-to-light ratios as a test of medium-induced energy loss at RHIC and the LHC. Nuclear Physics A, 2006, 774, 589-592.	0.6	4
40	QCD predictions of heavy quark production at RHIC. Nuclear Physics A, 2006, 774, 661-664.	0.6	7
41	A study of heavy flavoured meson fragmentation functions in $e^+e^-$ annihilation. Journal of High Energy Physics, 2006, 2006, 006-006.	1.6	62
42	Heavy-quark energy loss at RHIC and LHC. AIP Conference Proceedings, 2006, , .	0.3	3
43	Latest results from NA60. Journal of Physics G: Nuclear and Particle Physics, 2006, 32, S51-S60.	1.4	9
44	Crossing heavy-flavour thresholds in fragmentation functions. Journal of High Energy Physics, 2005, 2005, 034-034.	1.6	20
45	QCD Predictions for Charm and Bottom Quark Production at RHIC. Physical Review Letters, 2005, 95, 122001.	2.9	384
46	Perturbative and non-perturbative aspects of heavy-quark fragmentation. European Physical Journal C, 2004, 33, s876-s880.	1.4	1
47	Heavy Flavour Production at the Tevatron. Nuclear Physics, Section B, Proceedings Supplements, 2004, 135, 61-65.	0.5	1
48	Heavy-quark fragmentation. Nuclear Physics B, 2003, 664, 299-340.	0.9	40
49	Charm cross sections for the Tevatron Run II. Journal of High Energy Physics, 2003, 2003, 006-006.	1.6	97
50	Is There a Significant Excess in Bottom Hadroproduction at the Tevatron?. Physical Review Letters, 2002, 89, 122003.	2.9	118
51	Soft-Gluon Resummation for Bottom Fragmentation in Top Quark Decay. Journal of High Energy Physics, 2002, 2002, 015-015.	1.6	27
52	Soft-gluon resummation for the fragmentation of light and heavy quarks at large x. Nuclear Physics B, 2001, 617, 253-290.	0.9	109
53	QCD radiative corrections to $\hat{\sigma}^3 \hat{\sigma}^3 \hat{\sigma}^3$ hadrons. Journal of High Energy Physics, 2001, 2001, 029-029.	1.6	13
54	The $p_T$ spectrum in heavy-flavour photoproduction. Journal of High Energy Physics, 2001, 2001, 006-006.	1.6	270

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55	Soft-gluon resummation in heavy quarkonium physics. Nuclear Physics B, 2000, 571, 185-196.	0.9	4
56	Phenomenology of heavy quarkonium production. Nuclear Physics, Section B, Proceedings Supplements, 1999, 71, 431-440.	0.5	1
57	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.	0.5	0
58	Physics with $e^+e^-$ linear colliders. Physics Reports, 1998, 299, 1-78.	10.3	274
59	NLO production and decay of quarkonium. Nuclear Physics B, 1998, 514, 245-309.	0.9	259
60	The $p_T$ spectrum in heavy-flavour hadroproduction. Journal of High Energy Physics, 1998, 1998, 007-007.	1.6	548
61	Hadronic production of heavy quarks. , 1998, , .		0
62	$D^*$ production from $e^+e^-$ to $e^+e^-$ collisions in NLO QCD. Physical Review D, 1997, 55, 7134-7143.	1.6	44
63	Charmed meson fragmentation functions. Physical Review D, 1997, 55, 2736-2740.	1.6	22
64	Associated $J/\psi + \psi'$ photoproduction as a probe of the color-octet mechanism. Physical Review D, 1997, 55, 7126-7133.	1.6	8
65	The physics of hadrons. Nuclear Physics B, 1996, 466, 173-186.	0.9	35
66	Charm photoproduction via fragmentation. Zeitschrift für Physik C-Particles and Fields, 1996, 69, 459-465.	1.5	27
67	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.	1.5	30
68	Color-Octet Contributions to $J/\psi$ Photoproduction. Physical Review Letters, 1996, 76, 4128-4131.	2.9	135
69	SABSPV " A Monte Carlo integrator for small-angle Bhabha scattering. Computer Physics Communications, 1995, 90, 301-310.	3.0	19
70	Charm photoproduction via fragmentation. Zeitschrift für Physik C-Particles and Fields, 1995, 69, 459-465.	1.5	0
71	Charmonium production at the Tevatron. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 356, 553-560.	1.5	105
72	$J/\psi$ Production via Fragmentation at the Fermilab Tevatron. Physical Review Letters, 1994, 73, 1586-1589.	2.9	97

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73	Large- $p_T$ hadroproduction of heavy quarks. Nuclear Physics B, 1994, 421, 530-544.	0.9	101
74	QED Structure Functions: A Systematic Approach. Europhysics Letters, 1992, 17, 123-128.	0.7	34
75	A critical analysis of radiative corrections to Bhabha scattering. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 279, 384-388.	1.5	13
76	A critical analysis of radiative corrections to $e^+e^- \rightarrow \gamma^* \gamma^* \rightarrow \mu^+\mu^-$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 286, 387-391.	1.5	8
77	Collinear photons from final state leptons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 274, 473-476.	1.5	8
78	Higher order QED corrections to $W$ pair production at LEP II. Zeitschrift für Physik C-Particles and Fields, 1991, 52, 421-426.	1.5	8
79	Bhabha scattering at LEP. Small angle. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1991, 271, 431-434.	1.5	17
80	Intermediate vector boson pair production at the TeV scale. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1991, 269, 208-212.	1.5	0
81	Bhabha scattering at LEP. Large angle. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1991, 268, 441-446.	1.5	16