

# Massimiliano Grazzini

## List of Publications by Year in descending order

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72  
papers

6,868  
citations

57758

44  
h-index

82547

72  
g-index

75  
all docs

75  
docs citations

75  
times ranked

6184  
citing authors

#	ARTICLE	IF	CITATIONS
1	Next-to-Next-to-Leading-Order Subtraction Formalism in Hadron Collisions and its Application to Higgs-Boson Production at the Large Hadron Collider. <i>Physical Review Letters</i> , 2007, 98, 222002.	7.8	641
2	Vector Boson Production at Hadron Colliders: A Fully Exclusive QCD Calculation at Next-to-Next-to-Leading Order. <i>Physical Review Letters</i> , 2009, 103, 082001.	7.8	530
3	Soft-gluon resummation for Higgs boson production at hadron colliders. <i>Journal of High Energy Physics</i> , 2003, 2003, 028-028.	4.7	411
4	Transverse-momentum resummation and the spectrum of the Higgs boson at the LHC. <i>Nuclear Physics B</i> , 2006, 737, 73-120.	2.5	335
5	Infrared factorization of tree-level QCD amplitudes at the next-to-next-to-leading order and beyond. <i>Nuclear Physics B</i> , 2000, 570, 287-325.	2.5	238
6	Higgs production in hadron collisions: soft and virtual QCD corrections at NNLO. <i>Journal of High Energy Physics</i> , 2001, 2001, 025-025.	4.7	206
7	Universality of non-leading logarithmic contributions in transverse-momentum distributions. <i>Nuclear Physics B</i> , 2001, 596, 299-312.	2.5	198
8	Associated Higgs- $W$ -Boson Production at Hadron Colliders: A Fully Exclusive QCD Calculation at NNLO. <i>Physical Review Letters</i> , 2011, 107, 152003.	7.8	183
9	Diphoton Production at Hadron Colliders: A Fully Differential QCD Calculation at Next-to-Next-to-Leading Order. <i>Physical Review Letters</i> , 2012, 108, 072001.	7.8	183
10	NNLO predictions for the Higgs boson signal in the $H \rightarrow WW \rightarrow l\bar{l}$ and $H \rightarrow ZZ \rightarrow 4l$ decay channels. <i>Journal of High Energy Physics</i> , 2008, 2008, 043-043.	4.7	180
11	Fully differential NNLO computations with MATRIX. <i>European Physical Journal C</i> , 2018, 78, 1.	3.9	178
12	The soft-gluon current at one-loop order. <i>Nuclear Physics B</i> , 2000, 591, 435-454.	2.5	169
13	Higgs production through gluon fusion: Updated cross sections at the Tevatron and the LHC. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2009, 674, 291-294.	4.1	161
14	Transverse-momentum resummation: Higgs boson production at the Tevatron and the LHC. <i>Journal of High Energy Physics</i> , 2011, 2011, 1.	4.7	152
15	The structure of large logarithmic corrections at small transverse momentum in hadronic collisions. <i>Nuclear Physics B</i> , 2001, 616, 247-285.	2.5	144
16	Next-to-Next-to-Leading-Order Logarithmic Corrections at Small Transverse Momentum in Hadronic Collisions. <i>Physical Review Letters</i> , 2000, 85, 4678-4681.	7.8	139
17	Production of Drell-Yan lepton pairs in hadron collisions: Transverse-momentum resummation at next-to-next-to-leading logarithmic accuracy. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2011, 696, 207-213.	4.1	130
18	Universality of transverse-momentum resummation and hard factors at the NNLO. <i>Nuclear Physics B</i> , 2014, 881, 414-443.	2.5	130

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19	QCD transverse-momentum resummation in gluon fusion processes. Nuclear Physics B, 2011, 845, 297-323.	2.5	125
20	Heavy-quark mass effects in Higgs boson production at the LHC. Journal of High Energy Physics, 2013, 2013, 1.	4.7	115
21	ZZ production at the LHC: Fiducial cross sections and distributions in NNLO QCD. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 750, 407-410.	4.1	114
22	Vector-boson production at hadron colliders: hard-collinear coefficients at the NNLO. European Physical Journal C, 2012, 72, 1.	3.9	113
23	$W\hat{A}\pm Z$ production at hadron colliders in NNLO QCD. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 761, 179-183.	4.1	112
24	$Z\hat{I}^3$ production at hadron colliders in NNLO QCD. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 731, 204-207.	4.1	93
25	Associated ZH production at hadron colliders: The fully differential NNLO QCD calculation. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 740, 51-55.	4.1	93
26	Threshold resummation at N3LL accuracy and soft-virtual cross sections at N3LO. Nuclear Physics B, 2014, 888, 75-91.	2.5	84
27	Top-quark pair production at the LHC: fully differential QCD predictions at NNLO. Journal of High Energy Physics, 2019, 2019, 1.	4.7	82
28	Higgs boson production at the LHC: transverse momentum resummation effects in the $H \hat{a}t' \hat{I}^3$ , $H \hat{a}t' WW \hat{a}t' \hat{I}^{1/2}\hat{I}^{1/2}$ and $H \hat{a}t' ZZ \hat{a}t' 4l$ decay modes. Journal of High Energy Physics, 2012, 2012, 1.	4.7	79
29	Direct Higgs production and jet veto at the Tevatron and the LHC in NNLO QCD. Journal of High Energy Physics, 2002, 2002, 015-015.	4.7	77
30	Differential Higgs boson pair production at next-to-next-to-leading order in QCD. Journal of High Energy Physics, 2016, 2016, 1.	4.7	76
31	W boson production at hadron colliders: the lepton charge asymmetry in NNLO QCD. Journal of High Energy Physics, 2010, 2010, 1.	4.7	72
32	$W + W \hat{a}^{\sim}$ production at the LHC: fiducial cross sections and distributions in NNLO QCD. Journal of High Energy Physics, 2016, 2016, 1.	4.7	69
33	Transverse-momentum resummation: A perturbative study of Z production at the Tevatron. Nuclear Physics B, 2009, 815, 174-197.	2.5	68
34	Top-quark pair hadroproduction at next-to-next-to-leading order in QCD. Physical Review D, 2019, 99, .	4.7	65
35	Higgs boson production at the LHC: Transverse-momentum resummation and rapidity dependence. Nuclear Physics B, 2008, 791, 1-19.	2.5	63
36	$W\hat{I}^3$ and $Z\hat{I}^3$ production at the LHC in NNLO QCD. Journal of High Energy Physics, 2015, 2015, 1.	4.7	63

#	ARTICLE	IF	CITATIONS
37	The $q_T$ subtraction method for top-quark production at hadron colliders. European Physical Journal C, 2015, 75, 1.	3.9	61
38	$W \pm Z$ production at the LHC: fiducial cross sections and distributions in NNLO QCD. Journal of High Energy Physics, 2017, 2017, 1.	4.7	54
39	Transverse-momentum resummation for heavy-quark hadroproduction. Nuclear Physics B, 2015, 890, 518-538.	2.5	53
40	Higgs boson production at hadron colliders: hard-collinear coefficients at the NNLO. European Physical Journal C, 2012, 72, 1.	3.9	52
41	The back-to-back region in energy-energy correlation. Nuclear Physics B, 2005, 704, 387-403.	2.5	51
42	Higgs production at the LHC: Updated cross sections at $\sqrt{s} = 8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 718, 117-120.	4.7	49
43	Higher-order QCD effects for associated WH production and decay at the LHC. Journal of High Energy Physics, 2014, 2014, 1.	4.7	49
44	Bottom-quark production at hadron colliders: fully differential predictions in NNLO QCD. Journal of High Energy Physics, 2021, 2021, 1.	4.7	42
45	Vector boson production at hadron colliders: transverse-momentum resummation and leptonic decay. Journal of High Energy Physics, 2015, 2015, 1-47.	4.7	38
46	Transverse-momentum resummation for vector-boson pair production at NNLL+NNLO. Journal of High Energy Physics, 2015, 2015, 1.	4.7	38
47	Soft-gluon effects in WW production at hadron colliders. Journal of High Energy Physics, 2006, 2006, 095-095.	4.7	35
48	Modeling BSM effects on the Higgs transverse-momentum spectrum in an EFT approach. Journal of High Energy Physics, 2017, 2017, 1.	4.7	35
49	Diphoton production at the LHC: a QCD study up to NNLO. Journal of High Energy Physics, 2018, 2018, 1.	4.7	35
50	DYTurbo: fast predictions for Drell-Yan processes. European Physical Journal C, 2020, 80, 1.	3.9	31
51	Mixed Strong-Electroweak Corrections to the Drell-Yan Process. Physical Review Letters, 2022, 128, 012002.	7.8	30
52	ZZ production at the LHC: NLO QCD corrections to the loop-induced gluon fusion channel. Journal of High Energy Physics, 2019, 2019, 1.	4.7	28
53	The $q_T$ subtraction method: electroweak corrections and power suppressed contributions. European Physical Journal C, 2020, 80, 254.	3.9	27
54	Top-quark pair hadroproduction at NNLO: differential predictions with the $\overline{m_s}$ mass. Journal of High Energy Physics, 2020, 2020, 1.	4.7	23

#	ARTICLE	IF	CITATIONS
55	Soft-gluon resummation for single-particle inclusive hadroproduction at high transverse momentum. Nuclear Physics B, 2013, 874, 720-745.	2.5	20
56	Azimuthal asymmetries in QCD hard scattering: infrared safe but divergent. Journal of High Energy Physics, 2017, 2017, 1.	4.7	19
57	Soft-gluon effective coupling and cusp anomalous dimension. European Physical Journal C, 2019, 79, 685.	3.9	18
58	W+Wa <sup>+</sup> production at the LHC: NLO QCD corrections to the loop-induced gluon fusion channel. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 804, 135399.	4.1	18
59	Mixed QCD-electroweak corrections to $\sigma(\text{pp} \rightarrow \text{W}^+\text{W}^-\text{g})$ at the LHC. Physical Review D, 2021, 103, .	4.7	18
60	$t\bar{t}$ production at NNLO: the flavour off-diagonal channels. European Physical Journal C, 2021, 81, 491.	3.9	14
61	Higher-order QCD effects in the Higgs to ZZ search channel at the LHC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 662, 353-359.	4.1	13
62	Transverse-momentum resummation for top-quark pair production at the LHC. Journal of High Energy Physics, 2018, 2018, 1.	4.7	12
63	Higgs boson production at large transverse momentum within the SMEFT: analytical results. European Physical Journal C, 2018, 78, 1.	3.9	9
64	Four lepton production in gluon fusion: Off-shell Higgs effects in NLO QCD. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 819, 136465.	4.1	9
65	Transverse-momentum resummation for boson plus jet production at hadron colliders. European Physical Journal C, 2022, 82, 27.	3.9	8
66	Sensitivity to BSM effects in the Higgs p <sub>T</sub> spectrum within SMEFT. Journal of High Energy Physics, 2021, 2021, 1.	4.7	7
67	Resummation of the transverse-energy distribution in Higgs boson production at the Large Hadron Collider. Journal of High Energy Physics, 2014, 2014, 1.	4.7	5
68	Higgs boson production at hadron colliders: hard-collinear coefficients at the NNLO. , 2012, 72, 1.		3
69	Vector boson pair production at NNLO. , 2014, , .		3
70	Effective transverse momentum in multiple jet production at hadron colliders. Physical Review D, 2022, 106, .	4.7	3
71	Effective Field Theory in quest to parametrise Higgs properties: the transverse momentum spectrum case. Journal of Physics: Conference Series, 2017, 873, 012050.	0.4	2
72	Diphoton Production at Hadron Colliders: A Fully Differential QCD Calculation at Next-to-Next-to-Leading Order. , 0, .		2