

# Daniel de Florian

## List of Publications by Year in descending order

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134  
papers

23,999  
citations

41258

49  
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16127

124  
g-index

135  
all docs

135  
docs citations

135  
times ranked

15584  
citing authors

#	ARTICLE	IF	CITATIONS
1	Review of Particle Physics. Chinese Physics C, 2014, 38, 090001.	1.5	5,997
2	Review of Particle Physics. Physical Review D, 2018, 98, .	1.6	5,390
3	Review of Particle Physics. Chinese Physics C, 2016, 40, 100001.	1.5	4,200
4	Vector Boson Production at Hadron Colliders: A Fully Exclusive QCD Calculation at Next-to-Next-to-Leading Order. Physical Review Letters, 2009, 103, 082001.	2.9	530
5	Global analysis of fragmentation functions for pions and kaons and their uncertainties. Physical Review D, 2007, 75, .	1.6	443
6	Soft-gluon resummation for Higgs boson production at hadron colliders. Journal of High Energy Physics, 2003, 2003, 028-028.	1.6	411
7	Transverse-momentum resummation and the spectrum of the Higgs boson at the LHC. Nuclear Physics B, 2006, 737, 73-120.	0.9	335
8	Extraction of spin-dependent parton densities and their uncertainties. Physical Review D, 2009, 80, .	1.6	299
9	Nuclear parton distributions at next to leading order. Physical Review D, 2004, 69, .	1.6	256
10	Evidence for Polarization of Gluons in the Proton. Physical Review Letters, 2014, 113, 012001.	2.9	222
11	Global Analysis of Helicity Parton Densities and their Uncertainties. Physical Review Letters, 2008, 101, 072001.	2.9	211
12	Higgs production in hadron collisions: soft and virtual QCD corrections at NNLO. Journal of High Energy Physics, 2001, 2001, 025-025.	1.6	206
13	Universality of non-leading logarithmic contributions in transverse-momentum distributions. Nuclear Physics B, 2001, 596, 299-312.	0.9	198
14	Higgs Boson Pair Production at Next-to-Next-to-Leading Order in QCD. Physical Review Letters, 2013, 111, 201801.	2.9	196
15	Diphoton Production at Hadron Colliders: A Fully Differential QCD Calculation at Next-to-Next-to-Leading Order. Physical Review Letters, 2012, 108, 072001.	2.9	183
16	Global analysis of nuclear parton distributions. Physical Review D, 2012, 85, .	1.6	182
17	Global analysis of fragmentation functions for protons and charged hadrons. Physical Review D, 2007, 76, .	1.6	176
18	Parton-to-pion fragmentation reloaded. Physical Review D, 2015, 91, .	1.6	169

#	ARTICLE	IF	CITATIONS
19	The $q_T$ spectrum of the Higgs boson at the LHC in QCD perturbation theory. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2003, 564, 65-72.	1.5	168
20	Higgs production through gluon fusion: Updated cross sections at the Tevatron and the LHC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 674, 291-294.	1.5	161
21	Transverse-momentum resummation: Higgs boson production at the Tevatron and the LHC. Journal of High Energy Physics, 2011, 2011, 1.	1.6	152
22	Higgs Production with Large Transverse Momentum in Hadronic Collisions at Next-to-Leading Order. Physical Review Letters, 1999, 82, 5209-5212.	2.9	147
23	QCD analysis of unpolarized and polarized $\hat{b}$ -baryon production in leading and next-to-leading order. Physical Review D, 1998, 57, 5811-5824.	1.6	146
24	The structure of large logarithmic corrections at small transverse momentum in hadronic collisions. Nuclear Physics B, 2001, 616, 247-285.	0.9	144
25	Next-to-Next-to-Leading-Order Logarithmic Corrections at Small Transverse Momentum in Hadronic Collisions. Physical Review Letters, 2000, 85, 4678-4681.	2.9	139
26	Production of Drell-Yan lepton pairs in hadron collisions: Transverse-momentum resummation at next-to-next-to-leading logarithmic accuracy. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 696, 207-213.	1.5	130
27	Universality of transverse-momentum resummation and hard factors at the NNLO. Nuclear Physics B, 2014, 881, 414-443.	0.9	130
28	Vector-boson production at hadron colliders: hard-collinear coefficients at the NNLO. European Physical Journal C, 2012, 72, 1.	1.4	113
29	Two-loop virtual corrections to Higgs pair production. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 724, 306-309.	1.5	105
30	Sea quark and gluon polarization in the nucleon at NLO accuracy. Physical Review D, 2005, 71, .	1.6	95
31	Higgs pair production at next-to-next-to-leading logarithmic accuracy at the LHC. Journal of High Energy Physics, 2015, 2015, 1.	1.6	92
32	Space-like (vs. time-like) collinear limits in QCD: is factorization violated?. Journal of High Energy Physics, 2012, 2012, 1.	1.6	87
33	Threshold resummation at N3LL accuracy and soft-virtual cross sections at N3LO. Nuclear Physics B, 2014, 888, 75-91.	0.9	84
34	Perturbative Generation of a Strange-Quark Asymmetry in the Nucleon. Physical Review Letters, 2004, 93, 152003.	2.9	79
35	Higgs boson production at the LHC: transverse momentum resummation effects in the $H \rightarrow \tau^+ \tau^-$ , $H \rightarrow WW \rightarrow \ell^+ \ell^- \nu \bar{\nu}$ and $H \rightarrow ZZ \rightarrow 4\ell$ decay modes. Journal of High Energy Physics, 2012, 2012, 1.	1.6	79
36	Direct Higgs production and jet veto at the Tevatron and the LHC in NNLO QCD. Journal of High Energy Physics, 2002, 2002, 015-015.	1.6	77

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37	Differential Higgs boson pair production at next-to-next-to-leading order in QCD. Journal of High Energy Physics, 2016, 2016, 1.	1.6	76
38	Parton-to-kaon fragmentation revisited. Physical Review D, 2017, 95, .	1.6	76
39	Phenomenology of forward hadrons in deep inelastic scattering: Fracture functions and its Q2 evolution. Physical Review D, 1997, 56, 426-432.	1.6	69
40	Transverse-momentum resummation: A perturbative study of Z production at the Tevatron. Nuclear Physics B, 2009, 815, 174-197.	0.9	68
41	Approximate N3LO Higgs-boson production cross section using physical-kernel constraints. Journal of High Energy Physics, 2014, 2014, 1.	1.6	68
42	Threshold resummation for the inclusive-hadron cross section in pp collisions. Physical Review D, 2005, 71, .	1.6	64
43	Higgs boson production at the LHC: Transverse-momentum resummation and rapidity dependence. Nuclear Physics B, 2008, 791, 1-19.	0.9	63
44	Polarized $\bar{b}$ -Baryon Production in pp Collisions. Physical Review Letters, 1998, 81, 530-533.	2.9	59
45	Next-to-leading order QCD corrections to one-hadron production in polarized pp collisions at BNL RHIC. Physical Review D, 2003, 67, .	1.6	57
46	The triple collinear limit of one-loop QCD amplitudes. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 586, 323-331.	1.5	54
47	QED corrections to the Altarelli-Parisi splitting functions. European Physical Journal C, 2016, 76, 1.	1.4	53
48	The back-to-back region in energy-energy correlation. Nuclear Physics B, 2005, 704, 387-403.	0.9	51
49	Approximate Next-to-Next-to-Leading Order Corrections to Hadronic Jet Production. Physical Review Letters, 2014, 112, .	2.9	51
50	Higgs production at the LHC: Updated cross sections at $\sqrt{s} = 13$ and $14$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 718, 117-120.	1.4	48
51	$W$ and $Z$ production at hadron colliders. European Physical Journal C, 2000, 16, 105-114.	1.4	48
52	Precision studies of observables in $pp \rightarrow W \rightarrow l \bar{\nu}_l$ and $pp \rightarrow \gamma, Z \rightarrow l^+ l^-$ processes at the LHC. European Physical Journal C, 2017, 77, 1.	1.4	48
53	Monte Carlo sampling variant of the DSSV14 set of helicity parton densities. Physical Review D, 2019, 100, .	1.6	48
54	Inclusive and semi-inclusive polarized DIS data revisited. Physical Review D, 2000, 62, .	1.6	46

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55	Next-to-leading order analysis of inclusive and semi-inclusive polarized data. Physical Review D, 1998, 57, 5803-5810.	1.6	43
56	Factorization in semi-inclusive polarized deep inelastic scattering. Nuclear Physics B, 1996, 470, 195-208.	0.9	41
57	Next-to-leading order jet cross sections in polarized hadronic collisions. Nuclear Physics B, 1999, 539, 455-476.	0.9	40
58	Helicity parton distributions from spin asymmetries in $W$ -boson production at RHIC. Physical Review D, 2010, 81, .	1.6	40
59	A next-to-next-to-leading order calculation of soft-virtual cross sections. Journal of High Energy Physics, 2012, 2012, 1.	1.6	40
60	$QCD$ NNLO corrections to Drell-Yan production. Physical Review D, 2018, 98, .	1.6	40
61	Two photons plus jet at LHC: the NNLO contribution from the $gg$ initiated process. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 460, 184-188.	1.5	39
62	$O(\alpha_s^2)QCD$ corrections to the electroproduction of hadrons with high transverse momentum. Physical Review D, 2005, 71, .	1.6	38
63	Vector boson production at hadron colliders: transverse-momentum resummation and leptonic decay. Journal of High Energy Physics, 2015, 2015, 1-47.	1.6	38
64	Resummed cross section for jet production at hadron colliders. Physical Review D, 2007, 76, .	1.6	35
65	Diphoton production at the LHC: a QCD study up to NNLO. Journal of High Energy Physics, 2018, 2018, 1.	1.6	35
66	Threshold resummation for high-transverse-momentum Higgs production at the LHC. Journal of High Energy Physics, 2006, 2006, 047-047.	1.6	33
67	Two hadron production in $e^+e^-$ annihilation to next-to-leading order accuracy. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 578, 139-149.	1.5	32
68	DYTurbo: fast predictions for Drell-Yan processes. European Physical Journal C, 2020, 80, 1.	1.4	31
69	Jet cross sections in polarized photon-hadron collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 457, 236-244.	1.5	30
70	Two-loop QED corrections to the Altarelli-Parisi splitting functions. Journal of High Energy Physics, 2016, 2016, 1.	1.6	30
71	Threshold resummation for the prompt-photon cross section revisited. Physical Review D, 2005, 72, .	1.6	25
72	QCD spin physics: Partonic spin structure of the nucleon. Progress in Particle and Nuclear Physics, 2012, 67, 251-259.	5.6	25

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73	Mixed QCD—QED corrections to exclusive Drell Yan production using the qT -subtraction method. Journal of High Energy Physics, 2020, 2020, 1.	1.6	25
74	Bounds on transverse spin asymmetries for $\hat{\Lambda}$ baryon production in pp collisions at BNL RHIC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 439, 176-182.	1.5	24
75	Double collinear splitting amplitudes at next-to-leading order. Journal of High Energy Physics, 2014, 2014, 1.	1.6	23
76	Diphoton production at hadron colliders: transverse-momentum resummation at next-to-next-to-leading logarithmic accuracy. Journal of High Energy Physics, 2015, 2015, 1.	1.6	23
77	$O(\hat{\pm}s)$ spin-dependent weak structure functions. Physical Review D, 1995, 51, 6052-6058.	1.6	22
78	A complete $\mathcal{O}(\alpha_{\mathrm{S}}^2)$ calculation of the signal—background interference for the Higgs diphoton decay channel. European Physical Journal C, 2013, 73, 1.	1.4	20
79	Higgs boson pair production at NNLO in QCD including dimension 6 operators. Journal of High Energy Physics, 2017, 2017, 1.	1.6	20
80	Triple collinear splitting functions at NLO for scattering processes with photons. Journal of High Energy Physics, 2014, 2014, 1.	1.6	18
81	Soft-gluon effective coupling and cusp anomalous dimension. European Physical Journal C, 2019, 79, 685.	1.4	18
82	Next-to-leading order QCD corrections to inclusive-hadron photoproduction in polarized lepton-proton collisions. Physical Review D, 1998, 57, 4376-4384.	1.6	17
83	Soft gluon resummation for Higgs boson pair production including finite $M_t$ effects. Journal of High Energy Physics, 2018, 2018, 1.	1.6	16
84	Single-inclusive hadron production in polarized $\langle \mathcal{O}(\alpha_{\mathrm{S}}^2) \rangle$ scattering at next-to-leading logarithmic accuracy. Physical Review D, 2007, 76, .	1.6	15
85	Soft-gluon resummation for pseudoscalar Higgs boson production at hadron colliders. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 659, 813-820.	1.5	15
86	Soft-gluon resummation for high- $Q^2$ inclusive-hadron production at COMPASS. Physical Review D, 2013, 88, .	1.6	15
87	Triple Higgs production at hadron colliders at NNLO in QCD. Journal of High Energy Physics, 2020, 2020, 1.	1.6	15
88	Jet Production in Polarized Deep Inelastic Scattering at Next-to-Next-to-Leading Order. Physical Review Letters, 2020, 125, 082001.	2.9	14
89	Next to leading order semi-inclusive spin asymmetries. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 389, 358-366.	1.5	13
90	Quark and gluon spin-2 form factors to two-loops in QCD. Journal of High Energy Physics, 2014, 2014, 1.	1.6	13

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91	Next to leading order QCD corrections to polarized $\hat{\Gamma}$ production in DIS. Nuclear Physics B, 1997, 488, 367-386.	0.9	12
92	Gluon induced contributions to $Z\hat{\Gamma}^3$ production at hadron colliders. Physical Review D, 2003, 67, .	1.6	12
93	Two-loop corrections to the triple Higgs boson production cross section. Journal of High Energy Physics, 2017, 2017, 1.	1.6	12
94	Towards a Global QCD Analysis of Fragmentation Functions at Next-to-Next-to-Leading Order Accuracy. Physical Review Letters, 2022, 129, .	2.9	12
95	Photoproduction of jets and the virtual structure of the photon. Zeitschrift für Physik C-Particles and Fields, 1997, 75, 265-270.	1.5	11
96	Gluon induced contributions to $WZ$ and $W\hat{\Gamma}^3$ production at NNLO. Physical Review D, 2002, 65, .	1.6	11
97	Seven parton amplitudes from recursion relations. Journal of High Energy Physics, 2006, 2006, 073-073.	1.6	11
98	Polarized semi-inclusive electroweak structure functions at next-to-leading-order. European Physical Journal C, 2013, 73, 1.	1.4	11
99	Next-to-next-to-leading order QCD corrections in models of TeV-scale gravity. Journal of High Energy Physics, 2014, 2014, 1.	1.6	11
100	Interference effects in the $H\hat{\Gamma}^3$ channel at the LHC. Physical Review D, 2015, 92, .	1.6	11
101	Polarized triple-collinear splitting functions at NLO for processes with photons. Journal of High Energy Physics, 2015, 2015, 1.	1.6	11
102	Spin budget of the proton at NNLO and beyond. Physical Review D, 2019, 99, .	1.6	11
103	Approximate NNLO QCD corrections to semi-inclusive DIS. Physical Review D, 2021, 104, .	1.6	11
104	Next-to-leading order QCD corrections to hadron+jet production in pp collisions at RHIC. Physical Review D, 2009, 79, .	1.6	10
105	Pion fragmentation functions at high energy colliders. Physical Review D, 2022, 105, .	1.6	10
106	Polarized parton distributions. Physical Review D, 1995, 51, 37-43.	1.6	8
107	Transverse-momentum resummation for the signal-background interference in the $H\hat{\Gamma}^3$ channel at the LHC. Physical Review D, 2017, 96, .	1.6	7
108	Anomalous couplings in Higgs-boson pair production at approximate NNLO QCD. Journal of High Energy Physics, 2021, 2021, 1.	1.6	7

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109	Spin-dependent quark and gluon distributions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 319, 285-290.	1.5	6
110	The last of the seven-parton tree amplitudes. Journal of High Energy Physics, 2006, 2006, 080-080.	1.6	6
111	Hadron plus photon production in polarized hadronic collisions at next-to-leading order accuracy. Physical Review D, 2011, 83, .	1.6	6
112	Towards semi-inclusive deep inelastic scattering at next-to-next-to-leading order. Physical Review D, 2017, 95, .	1.6	6
113	Inclusive-jet and dijet production in polarized deep inelastic scattering. Physical Review D, 2021, 103, .	1.6	6
114	Excess pions in Drell-Yan and deep inelastic scattering experiments. Zeitschrift für Physik A, 1994, 350, 55-59.	0.9	5
115	Single-inclusive hadron production in transversely polarized pp and p̄p collisions with threshold resummation. Physical Review D, 2008, 78, .	1.6	5
116	Collinear splitting, parton evolution and the strange-quark asymmetry of the nucleon in NNLO QCD. Nuclear Physics, Section B, Proceedings Supplements, 2004, 135, 188-192.	0.5	3
117	Scale dependence of polarized deep inelastic scattering asymmetries. Physical Review D, 1996, 53, 73-79.	1.6	2
118	Transversely polarized Drell-Yan asymmetry $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle A \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle T \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle T \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle$ at NLO. Physical Review D, 2017, 96, .	1.6	2
119	Dijet production in neutral current and charged current polarized deep inelastic scattering. Physical Review D, 2022, 105, .	1.6	2
120	Fragmentation functions for pions, kaons, protons and charged hadrons. Journal of Physics: Conference Series, 2008, 110, 022045.	0.3	1
121	Extracting the fragmentation functions with global analyses. Journal of Physics: Conference Series, 2014, 485, 012056.	0.3	1
122	Global extraction of the parton-to-pion fragmentation functions at NLO accuracy in QCD. Journal of Physics: Conference Series, 2016, 761, 012037.	0.3	1
123	Global extraction of the parton-to-kaon fragmentation functions at NLO in QCD. Journal of Physics: Conference Series, 2017, 912, 012043.	0.3	1
124	Spin in semi-inclusive DIS processes. , 1997, , .		0
125	Jet production with polarized beams at next-to-leading order. Nuclear Physics, Section B, Proceedings Supplements, 1999, 79, 605-607.	0.5	0
126	Polarized fragmentation functions at RHIC. AIP Conference Proceedings, 2000, , .	0.3	0



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127	QCD corrections to the electroproduction of hadrons with high $p_T$ . AIP Conference Proceedings, 2005, , .	0.3	0
128	Extraction of polarized parton densities from polarized DIS and SIDIS. AIP Conference Proceedings, 2005, , .	0.3	0
129	NLO QCD corrections to inclusive jet and hadron production in DIS. Brazilian Journal of Physics, 2007, 37, 585-590.	0.7	0
130	Single-inclusive jet production in polarized pp collisions at RHIC to next-to-leading logarithmic accuracy. European Physical Journal C, 2010, 67, 367-375.	1.4	0
131	Interference effects in the $\gamma\gamma$ production of a single photon. <small>xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd"</small>	0.2	0
132	Electroweak boson production at large transverse momentum in double polarized $\langle \text{mml:math display="inline"} \rangle \langle \text{mml:mi} \rangle p \langle \text{mml:mi} \rangle p \langle \text{mml:mi} \rangle p \langle \text{mml:mi} \rangle p \langle \text{mml:math} \rangle$ scattering at next-to-leading order accuracy. Physical Review D, 2020, 101, .	1.6	0
133	RESUMMED CROSS SECTION FOR HIGGS BOSON PRODUCTION. , 2005, , .		0
134	Precise QCD Predictions for Higgs Production at the LHC. AIP Conference Proceedings, 2007, , .	0.3	0