

Hua-Sheng Shao

List of Publications by Year in descending order

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Version: 2024-02-01

67
papers

6,409
citations

257450

24
h-index

144013

57
g-index

67
all docs

67
docs citations

67
times ranked

7693
citing authors

#	ARTICLE	IF	CITATIONS
1	The automated computation of tree-level and next-to-leading order differential cross sections, and their matching to parton shower simulations. Journal of High Energy Physics, 2014, 2014, 1.	4.7	4,318
2	J/ψ Polarization at Hadron Colliders in Nonrelativistic QCD. Physical Review Letters, 2012, 108, 242004.	7.8	223
3	Electroweak and QCD corrections to top-pair hadroproduction in association with heavy bosons. Journal of High Energy Physics, 2015, 2015, 1.	4.7	159
4	Towards an automated tool to evaluate the impact of the nuclear modification of the gluon density on quarkonium, D and B meson production in proton-nucleus collisions. European Physical Journal C, 2017, 77, 1.	3.9	144
5	HELAC-Onia: An automatic matrix element generator for heavy quarkonium physics. Computer Physics Communications, 2013, 184, 2562-2570.	7.5	107
6	HELAC-Onia 2.0: An upgraded matrix-element and event generator for heavy quarkonium physics. Computer Physics Communications, 2016, 198, 238-259.	7.5	91
7	Gluon Shadowing in Heavy-Flavor Production at the LHC. Physical Review Letters, 2018, 121, 052004.	7.8	84
8	Production of J/ψ versus Υ at Weak corrections to Higgs hadroproduction in association with a top-quark pair. Journal of High Energy Physics, 2014, 2014, 1.	7.8	76
9	Weak corrections to Higgs hadroproduction in association with a top-quark pair. Journal of High Energy Physics, 2014, 2014, 1.	4.7	76
10	J/ψ pair production at large momenta: Indications for double parton scatterings and large Υ production at the LHC. Nuclear, Elementary Particle and High-Energy Physics, 2015, 751, 479-486.	4.1	74
11	Production at LHC and Implications for the Understanding of J/ψ Production. Physical Review Letters, 2015, 114, 092005.	7.8	72
12	Yields and polarizations of prompt J/ψ and $\Upsilon(2S)$ production in hadronic collisions. Journal of High Energy Physics, 2015, 2015, 1.	4.7	60
13	Higgs boson pair production via gluon fusion at N ³ LO in QCD. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 803, 135292.	4.1	47
14	QCD next-to-leading-order predictions matched to parton showers for vector-like quark models. European Physical Journal C, 2017, 77, 135.	3.9	45
15	Polarizations of J/ψ and Υ production at the LHC. Physical Review Letters, 2014, 112, 102001.	7.8	44
16	Predictions for cold nuclear matter effects in p+Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Nuclear Physics A, 2018, 972, 18-85.	1.5	43
17	Double-quarkonium production at a fixed-target experiment at the LHC (AFTER@LHC). Nuclear Physics B, 2015, 900, 273-294.	2.5	42
18	Prospects for quarkonium studies at the high-luminosity LHC. Progress in Particle and Nuclear Physics, 2022, 122, 103906.	14.4	41

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19	Next-to-leading-order predictions for single vector-like quark production at the LHC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 793, 206-211.	4.7	39
20	The gluon-fusion production of Higgs boson pair: N3LO QCD corrections and top-quark mass effects. Journal of High Energy Physics, 2020, 2020, 1.	4.7	38
21	The complete NLO corrections to dijet hadroproduction. Journal of High Energy Physics, 2017, 2017, 1.	4.7	36
22	Measuring the top Yukawa coupling at 100 TeV. Journal of Physics G: Nuclear and Particle Physics, 2016, 43, 035001.	3.6	34
23	A fixed-target programme at the LHC: Physics case and projected performances for heavy-ion, hadron, spin and astroparticle studies. Physics Reports, 2021, 911, 1-83.	25.6	28
24	Associated production of a quarkonium and a Z boson at one loop in a quark-hadron-duality approach. Journal of High Energy Physics, 2016, 2016, 1.	4.7	24
25	Meson Associated with a Prompt J/ψ production at the LHC. Physical Review Letters, 2016, 117, 062001.	7.8	24
26	NLO predictions for the production of a spin-two particle at the LHC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 770, 507-513.	4.1	24
27	Single production of vector-like quarks: the effects of large width, interference and NLO corrections. Journal of High Energy Physics, 2021, 2021, 1.	4.7	23
28	Feynman rules for the rational part of the standard model one-loop amplitudes in the $\overline{\text{MS}}$ Hooft-Veltman $\hat{\text{I}}^3$ 5 scheme. Journal of High Energy Physics, 2011, 2011, 1.	4.7	22
29	Indication for double parton scatterings in W^+ prompt J/ψ production at the LHC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 786, 342-346.	4.1	22
30	Indication for double parton scatterings in W^+ prompt J/ψ production at the LHC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 781, 485-491.	4.1	21
31	Complete NLO QCD study of single- and double-quarkonium hadroproduction in the colour-evaporation model at the Tevatron and the LHC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 807, 135559.	4.1	20
32	Automated next-to-leading order predictions for new physics at the LHC: The case of colored scalar pair production. Physical Review D, 2015, 91, .	4.7	17
33	Automated simulations beyond the Standard Model: supersymmetry. Journal of High Energy Physics, 2019, 2019, 1.	4.7	17
34	Reduction schemes in cutoff regularization and Higgs decay into two photons. Journal of High Energy Physics, 2012, 2012, 1.	4.7	16

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37	Phenomenological NLO analysis of $\hat{\Gamma}$ -production at the LHC in the collider and fixed-target modes. Nuclear Physics B, 2019, 945, 114662.	2.5	16
38	Reweighted nuclear PDFs using heavy-flavor production data at the LHC. Physical Review D, 2021, 104, .	4.7	16
39	Phenomenological analysis of associated production of $Z0+b$ in the $b\hat{\Gamma}^*X$ decay channel at the LHC. Nuclear Physics B, 2017, 916, 132-142.	2.5	15
40	Probing vector-like quark models with Higgs-boson pair production. Journal of High Energy Physics, 2017, 2017, 1.	4.7	14
41	Triple Prompt J/ψ Hadroproduction as a Hard Probe of Multiple-Parton Scatterings. Physical Review Letters, 2019, 122, 192002.	7.8	14
42	Large-P inclusive photoproduction of J/ψ in electron-proton collisions at HERA and the EIC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 811, 135926.	4.1	13
43	Feynman rules for the rational part of one-loop QCD corrections in the MSSM. Journal of High Energy Physics, 2012, 2012, 1.	4.7	12
44	Prompt J/ψ -pair production at the LHC: impact of loop-induced contributions and of the colour-octet mechanism. European Physical Journal C, 2019, 79, 1.	3.9	12
45	RIP H : how other Higgs production modes conspire to kill a rare signal at the LHC. Journal of High Energy Physics, 2020, 2020, 1.	4.7	12
46	Initial state radiation effects in inclusive J/ψ production at B factories. Journal of High Energy Physics, 2014, 2014, 1.	4.7	11
47	Matching next-to-leading order predictions to parton showers in supersymmetric QCD. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 755, 82-87.	4.1	11
48	Automated EW corrections with isolated photons: $t\bar{t}$, $t\bar{t}\gamma$ and $t\bar{t}j$ as case studies. Journal of High Energy Physics, 2021, 2021, 1.	4.7	11
49	Probing impact-parameter dependent nuclear parton densities from double parton scatterings in heavy-ion collisions. Physical Review D, 2020, 101, .	4.7	9
50	Boosting perturbative QCD stability in quarkonium production. Journal of High Energy Physics, 2019, 2019, 1.	4.7	7
51	J/ψ meson production in association with an open charm hadron at the LHC: A reappraisal. Physical Review D, 2020, 102, .	4.7	6
52	Observing true tauonium via two-photon fusion at e^+e^- and hadron colliders. Physical Review D, 2022, 105, .	4.7	5
53	Feynman rules for the rational part of one-loop QCD corrections in the MSSM. Journal of High Energy Physics, 2012, 2012, 1.	4.7	3
54	Probing heavy quarkonium production mechanism: \bar{c} polarization. AIP Conference Proceedings, 2016, , .	0.4	3

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55	LHC constraints and potential on resonant monoton production. European Physical Journal C, 2019, 79, 1.	3.9	3
56	Dijet invariant mass distribution in top quark hadronic decay with QCD corrections. Physical Review D, 2011, 84, .	4.7	2
57	HELAC-Onia. Springer Theses, 2016, , 21-36.	0.1	1
58	Heavy Quarkonium Production Phenomenology and Automation of One-Loop Scattering Amplitude Computations. Springer Theses, 2016, , .	0.1	0
59	$J/\psi + Z$ production at the LHC. EPJ Web of Conferences, 2017, 137, 06013.	0.3	0
60	One-Loop Computations: OPP Versus TIR. Springer Theses, 2016, , 101-117.	0.1	0
61	Background of Heavy Quarkonium Physics. Springer Theses, 2016, , 9-19.	0.1	0
62	MadLoop5. Springer Theses, 2016, , 119-137.	0.1	0
63	Heavy Quarkonium Production in Hadronic Collisions. Springer Theses, 2016, , 37-71.	0.1	0
64	Inclusive J/ψ Production at B Factories. Springer Theses, 2016, , 73-85.	0.1	0
65	Associated Quarkonium Hadroproduction at High-Energy Colliders. , 2019, , .		0
66	Rare two-body decays of the top quark into a bottom meson plus an up or charm quark. Journal of High Energy Physics, 2020, 2020, 1.	4.7	0
67	NLO inclusive J/ψ photoproduction at large P_T at HERA and the EIC. SciPost Physics Proceedings, 2022, , .	0.4	0