

Jun Gao

List of Publications by Year in descending order

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Version: 2024-02-01

109
papers

5,200
citations

159585

30
h-index

88630

70
g-index

109
all docs

109
docs citations

109
times ranked

7909
citing authors

#	ARTICLE	IF	CITATIONS
1	New parton distribution functions from a global analysis of quantum chromodynamics. Physical Review D, 2016, 93, .	4.7	901
2	PDF4LHC recommendations for LHC Run II. Journal of Physics G: Nuclear and Particle Physics, 2016, 43, 023001.	3.6	875
3	CT10 next-to-next-to-leading order global analysis of QCD. Physical Review D, 2014, 89, .	4.7	300
4	New CTEQ global analysis of quantum chromodynamics with high-precision data from the LHC. Physical Review D, 2021, 103, .	4.7	298
5	Experimental two-dimensional quantum walk on a photonic chip. Science Advances, 2018, 4, eaat3174.	10.3	182
6	The structure of the proton in the LHC precision era. Physics Reports, 2018, 742, 1-121.	25.6	144
7	Top-Quark Decay at Next-to-Next-to-Leading Order in QCD. Physical Review Letters, 2013, 110, 042001.	7.8	135
8	Parton distribution benchmarking with LHC data. Journal of High Energy Physics, 2013, 2013, 1.	4.7	104
9	Experimental Machine Learning of Quantum States. Physical Review Letters, 2018, 120, 240501.	7.8	101
10	Towards quantum communications in free-space seawater. Optics Express, 2017, 25, 19795.	3.4	97
11	Experimental quantum fast hitting on hexagonal graphs. Nature Photonics, 2018, 12, 754-758.	31.4	89
12	Precision Higgs physics at the CEPC *. Chinese Physics C, 2019, 43, 043002.	3.7	89
13	A meta-analysis of parton distribution functions. Journal of High Energy Physics, 2014, 2014, 1.	4.7	84
14	The PDF4LHC report on PDFs and LHC data: results from Run I and preparation for Run II. Journal of Physics G: Nuclear and Particle Physics, 2015, 42, 103103.	3.6	77
15	Direct Observation of Topology from Single-Photon Dynamics. Physical Review Letters, 2019, 122, 193903.	7.8	70
16	Topological protection of two-photon quantum correlation on a photonic chip. Optica, 2019, 6, 955.	9.3	70
17	Mapping Twisted Light into and out of a Photonic Chip. Physical Review Letters, 2018, 121, 233602.	7.8	59
18	Intrinsic charm parton distribution functions from CTEQ-TEA global analysis. Physical Review D, 2014, 89, .	4.7	58

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19	NNLO QCD corrections to t -channel single top quark production and decay. Physical Review D, 2016, 94, .	4.7	55
20	CT14 intrinsic charm parton distribution functions from CTEQ-TEA global analysis. Journal of High Energy Physics, 2018, 2018, 1.	4.7	51
21	Next-to-Leading-Order QCD Corrections to the Top-Quark Decay via Model-Independent Flavor-Changing Neutral-Current Couplings. Physical Review Letters, 2009, 102, 072001.	7.8	50
22	Vector Vortex Beam Emitter Embedded in a Photonic Chip. Physical Review Letters, 2020, 124, 153601.	7.8	47
23	Differential distributions for t -channel single top-quark production and decay at next-to-next-to-leading order in QCD. Journal of High Energy Physics, 2017, 2017, 1.	4.7	45
24	Experimentally Detecting Quantized Zak Phases without Chiral Symmetry in Photonic Lattices. Physical Review Letters, 2021, 127, 147401.	7.8	43
25	Transmission of photonic polarization states through 55-m water: towards air-to-sea quantum communication. Photonics Research, 2019, 7, A40.	7.0	42
26	Charm-Quark Production in Deep-Inelastic Neutrino Scattering at Next-to-Next-to-Leading Order in QCD. Physical Review Letters, 2016, 116, 212002.	7.8	41
27	A broadband DLCZ quantum memory in room-temperature atoms. Communications Physics, 2018, 1, .	5.3	33
28	Quantum superposition demonstrated higher-order topological bound states in the continuum. Light: Science and Applications, 2021, 10, 173.	16.6	33
29	Towards ultimate parton distributions at the high-luminosity LHC. European Physical Journal C, 2018, 78, 962.	3.9	32
30	A scalable photonic computer solving the subset sum problem. Science Advances, 2020, 6, eaay5853.	10.3	32
31	MEKS: A program for computation of inclusive jet cross sections at hadron colliders. Computer Physics Communications, 2013, 184, 1626-1642.	7.5	30
32	Reconstruction of Monte Carlo replicas from Hessian parton distributions. Journal of High Energy Physics, 2017, 2017, 1.	4.7	30
33	Top Quark Forward-Backward Asymmetry in $e^+e^- \rightarrow t\bar{t}$ at Next-to-Next-to-Leading Order in QCD. Physical Review Letters, 2014, 113, 262001.	7.8	29
34	CTEQ-TEA parton distribution functions and HERA Run I and II combined data. Physical Review D, 2017, 95, .	4.7	29
35	Next-to-Leading QCD Effect on the Quark Compositeness Search at the LHC. Physical Review Letters, 2011, 106, 142001.	7.8	24
36	Charm quark mass dependence in a global QCD analysis. European Physical Journal C, 2013, 73, 1.	3.9	24

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37	Searching for Anomalous Top Quark Production at the Early LHC. Physical Review Letters, 2011, 107, 092002.	7.8	23
38	Higgs boson cross section from CTEQ-TEA global analysis. Physical Review D, 2014, 89, .	4.7	23
39	Two-dimensional quantum walks of correlated photons. Optica, 2021, 8, 1129.	9.3	23
40	Quantum Topological Boundary States in Quasi- ϵ Crystals. Advanced Materials, 2019, 31, e1905624.	21.0	22
41	Parity-Induced Thermalization Gap in Disordered Ring Lattices. Physical Review Letters, 2019, 122, 013903.	7.8	22
42	On-chip rotated polarization directional coupler fabricated by femtosecond laser direct writing. Optics Letters, 2019, 44, 102.	3.3	22
43	Mapping the sensitivity of hadronic experiments to nucleon structure. Physical Review D, 2018, 98, .	4.7	21
44	Hacking Quantum Key Distribution via Injection Locking. Physical Review Applied, 2020, 13, .	3.8	21
45	Next-to-leading order QCD corrections to tZ associated production via the flavor-changing neutral-current couplings at hadron colliders. Physical Review D, 2011, 83, .	4.7	20
46	Massive charged-current coefficient functions in deep-inelastic scattering at NNLO and impact on strange-quark distributions. Journal of High Energy Physics, 2018, 2018, 1.	4.7	20
47	Decoy-State Quantum Key Distribution Over a Long-Distance High-Loss Air-Water Channel. Physical Review Applied, 2021, 15, .	3.8	20
48	Next-to-leading order QCD corrections to the single top quark production via model-independent tqg flavor-changing neutral-current couplings at hadron colliders. Physical Review D, 2009, 80, .	4.7	19
49	Electroweak production of top-quark pairs in e^+e^- at NLO in QCD: The vector current contributions. Physical Review D, 2014, 90, .	4.7	19
50	Probing light-quark Yukawa couplings via hadronic event shapes at lepton colliders. Journal of High Energy Physics, 2018, 2018, 1.	4.7	19
51	Next-to-leading order QCD corrections to the top quark decay via the flavor-changing neutral-current operators with mixing effects. Physical Review D, 2010, 82, .	4.7	17
52	Experimental Quantum Stochastic Walks Simulating Associative Memory of Hopfield Neural Networks. Physical Review Applied, 2019, 11, .	3.8	17
53	Higgs Boson Production via Gluon Fusion in the Standard Model with four Generations. Physical Review D, 2011, 83, .	4.7	16
54	Non-classical photon correlation in a two-dimensional photonic lattice. Optics Express, 2016, 24, 12607.	3.4	16

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55	Entanglement activation from quantum coherence and superposition. <i>Physical Review A</i> , 2018, 98, .	2.5	16
56	Topologically Protected Polarization Quantum Entanglement on a Photonic Chip. , 2022, 1, 100003.		16
57	NLO QCD corrections to dijet production via quark contact interactions. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	4.7	15
58	s-channel single top quark production and decay at next-to-next-to-leading-order in QCD. <i>Physical Review D</i> , 2018, 98, .	4.7	15
59	Fast correlated-photon imaging enhanced by deep learning. <i>Optica</i> , 2021, 8, 323.	9.3	15
60	Probing proton structure at the Large Hadron electron Collider. <i>SciPost Physics</i> , 2019, 7, .	4.9	15
61	Next-to-leading order QCD predictions for $t\bar{t}\gamma^3$ associated production via model-independent flavor-changing neutral-current couplings at hadron colliders. <i>Physical Review D</i> , 2011, 83, .	4.7	14
62	Diphoton excess at 750 GeV: gluon-gluon fusion or quark-antiquark annihilation?. <i>European Physical Journal C</i> , 2016, 76, 1.	3.9	14
63	Reconstruction of quantum channel via convex optimization. <i>Science Bulletin</i> , 2020, 65, 286-292.	9.0	14
64	Energy-energy correlation in hadronic Higgs decays: analytic results and phenomenology at NLO. <i>Journal of High Energy Physics</i> , 2021, 2021, 1.	4.7	14
65	Model-independent analysis of top quark forward-backward asymmetry at the Tevatron up to $O(\hat{s}^2/\hat{t}^2)$. <i>Physical Review D</i> , 2011, 84, .	4.7	13
66	Invisibility Cloak Printed on a Photonic Chip. <i>Scientific Reports</i> , 2016, 6, 28527.	3.3	13
67	Top-quark pair-production and decay at high precision. <i>Physical Review D</i> , 2017, 96, .	4.7	13
68	Thrust distribution in Higgs decays at the next-to-leading order and beyond. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	4.7	13
69	Integrated measurement server for measurement-device-independent quantum key distribution network. <i>Optics Express</i> , 2019, 27, 5982.	3.4	13
70	Quantum computation for pricing the collateralized debt obligations. <i>Quantum Engineering</i> , 2021, 3, e84.	2.5	13
71	Quantum advantage with memobosonsampling. , 2022, 1, 100007.		13
72	Quantum simulation of particle pair creation near the event horizon. <i>National Science Review</i> , 2020, 7, 1476-1484.	9.5	12

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73	Experimental topological photonic superlattice. <i>Physical Review B</i> , 2021, 103, .	3.2	12
74	Symmetry-Induced Error Filtering in a Photonic Lieb Lattice. <i>Physical Review Letters</i> , 2021, 126, 110501.	7.8	12
75	Constructing higher-order topological states in higher dimensions. <i>Physical Review B</i> , 2021, 104, .	3.2	12
76	Experimental test of the relation between coherence and path information. <i>Communications Physics</i> , 2018, 1, .	5.3	9
77	Quantum fast hitting on glued trees mapped on a photonic chip. <i>Optica</i> , 2020, 7, 613.	9.3	9
78	Mapping and measuring large-scale photonic correlation with single-photon imaging. <i>Optica</i> , 2019, 6, 244.	9.3	9
79	Topologically protecting squeezed light on a photonic chip. <i>Photonics Research</i> , 2022, 10, 456.	7.0	9
80	Direct observation of broadband nonclassical states in a room-temperature light-matter interface. <i>Npj Quantum Information</i> , 2018, 4, .	6.7	8
81	Photonic Newton's Cradle for Remote Energy Transport. <i>Physical Review Applied</i> , 2019, 11, .	3.8	8
82	Thresholded single-photon underwater imaging and detection. <i>Optics Express</i> , 2021, 29, 28124.	3.4	8
83	Hadronic decays of Higgs boson at NNLO matched with parton shower. <i>Journal of High Energy Physics</i> , 2021, 2021, 1.	4.7	7
84	One-loop helicity amplitudes for top quark pair production in Randall-Sundrum model. <i>Journal of High Energy Physics</i> , 2011, 2011, 1.	4.7	6
85	Modeling of t-channel single top-quark production at the LHC. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2020, 811, 135886.	4.1	6
86	NNLO constraints on proton PDFs from the SeaQuest and STAR experiments and other developments in the CTEQ-TEA global analysis. <i>SciPost Physics Proceedings</i> , 2022, , .	0.4	6
87	Integrated Quantum-Walk Structure and NAND Tree on a Photonic Chip. <i>Physical Review Letters</i> , 2020, 125, 160502.	7.8	5
88	Constraints on neutrino non-standard interactions from LHC data with large missing transverse momentum. <i>Journal of High Energy Physics</i> , 2021, 2021, 1.	4.7	5
89	128 Identical Quantum Sources Integrated on a Single Silica Chip. <i>Physical Review Applied</i> , 2021, 16, .	3.8	5
90	NNLL momentum-space threshold resummation in direct top quark production at the LHC. <i>Journal of High Energy Physics</i> , 2014, 2014, 1.	4.7	4

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91	Differentiating the production mechanisms of the Higgs-like resonance using inclusive observables at hadron colliders. Journal of High Energy Physics, 2014, 2014, 1.	4.7	4
92	Higgs boson decay into four bottom quarks in the SM and beyond. Journal of High Energy Physics, 2019, 2019, 1.	4.7	4
93	Observing movement of Dirac cones from single-photon dynamics. Physical Review B, 2021, 103, .	3.2	4
94	Experimental Test of Tracking the King Problem. Research, 2019, 2019, 3474305.	5.7	4
95	Real-space observation of topological invariants in 2D photonic systems. Optics Express, 2020, 28, 39492.	3.4	4
96	Experimental quantum simulation of dynamic localization on curved photonic lattices. Photonics Research, 2022, 10, 1430.	7.0	4
97	Production and Hadronic Decays of Higgs Bosons in Heavy-Ion Collisions. Physical Review Letters, 2019, 122, 041803.	7.8	3
98	Investigating bottom-quark Yukawa interaction at Higgs factory *. Chinese Physics C, 2021, 45, 023105.	3.7	3
99	Multistage quantum swapping of vacuum-one-photon entanglement. Physical Review A, 2021, 104, .	2.5	3
100	Differential distributions for single top quark production at the LHeC. Physical Review D, 2021, 104, .	4.7	3
101	Hadronic production of W and Z bosons at large transverse momentum. Physical Review D, 2015, 91, .	4.7	2
102	Topologically protecting quantum resources with sawtooth lattices. Optics Letters, 2021, 46, 1584.	3.3	2
103	General heavy-flavor mass scheme for charged-current DIS at NNLO and beyond. Physical Review D, 2022, 105, .	4.7	2
104	Constraints on Randall-Sundrum model from the events of dijet production with QCD next-to-leading order accuracy at the LHC. Physical Review D, 2015, 91, .	4.7	1
105	Top-quark mass determination from t-channel single top production at the LHC. Journal of High Energy Physics, 2021, 2021, 1.	4.7	1
106	Experimental demonstration of a quantum anomaly induced by borders. Physical Review A, 2021, 104, .	2.5	1
107	Decay of the charged Higgs boson and the top quark in two-Higgs-doublet model at NNLO in QCD. Journal of High Energy Physics, 2022, 2022, .	4.7	1
108	Next-to-leading order QCD predictions for $A_0 \rightarrow 3$ associated production at the CERN Large Hadron Collider. Physical Review D, 2011, 83, .	4.7	0

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109	CTEQ-TEA parton distribution functions with intrinsic charm. EPJ Web of Conferences, 2018, 192, 00003.	0.3	0