Jun Cao

List of Publications by Year
in descending order

94 papers	7,292 citations	136950 32 h-index	53230 85 g-index
96 all docs	96 docs citations	96 times ranked	5939 citing authors

#	Article	IF	Citations
1	Observation of Electron-Antineutrino Disappearance at Daya Bay. Physical Review Letters, 2012, 108, 171803.	7.8	1,751
2	Neutrino physics with JUNO. Journal of Physics G: Nuclear and Particle Physics, 2016, 43, 030401.	3.6	750
3	Search for Electron Neutrino Appearance at theÎ”m2â^¼1â€‰â€‰eV2Scale. Physical Review Letters, 2007, 98, 231801.	7.8	422
4	Deep-inelastic inclusive ep scattering at low x and a determination of $alpha_s$. European Physical Journal C, 2001, 21, 33-61.	3.9	415
5	First measurement of the muon neutrino charged current quasielastic double differential cross section. Physical Review D, 2010, 81, .	4.7	341
6	Unexplained Excess of Electronlike Events from a 1-GeV Neutrino Beam. Physical Review Letters, 2009, 102, 101802.	7.8	292
7	Neutrino flux prediction at MiniBooNE. Physical Review D, 2009, 79, .	4.7	208
8	Measurement and QCD analysis of neutral and charged current cross sections at HERA. European Physical Journal C, 2003, 30, 1-32.	3.9	187
9	Unambiguous determination of the neutrino mass hierarchy using reactor neutrinos. Physical Review D, 2013, 88, .	4.7	177
10	Elastic photoproduction of J/Ïˆ and Ï’ mesons at HERA. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 483, 23-35.	4.1	153
11	Measurement of Muon Neutrino Quasielastic Scattering on Carbon. Physical Review Letters, 2008, 100, 032301.	7.8	151
12	Measurement of deeply virtual Compton scattering at HERA. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 517, 47-58.	4.1	144
13	Measurement of the neutrino neutral-current elastic differential cross section on mineral oil at<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>E</mml:mi><mml:mi>Î½</mml:mi></mml:msub><mml:mo>â^¼</mml:mo><mml:mn>1</mm Physical Review D, 2010, 82, .	4.7	122
14	Measurement of neutrino-induced charged-current charged pion production cross sections on mineral oil at<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>E</mml:mi><mml:mi>Î½</mml:mi></mml:msub><mml:mo>â^¼</mml:mo><mml:mn>1</mml: Physical Review D, 2011, 83, .	4.7	122
15	A side-by-side comparison of Daya Bay antineutrino detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2012, 685, 78-97.	1.6	121
16	Measurement of neutral and charged current cross sections in electron-proton collisions at high Q^2. European Physical Journal C, 2001, 19, 269-288.	3.9	107
17	On the rise of the proton structure function F2 towards low x. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 520, 183-190.	4.1	104
18	Determination of the neutrino mass hierarchy at an intermediate baseline. Physical Review D, 2008, 78, .	4.7	98

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19	Measurement of Dâˆ—Â± meson production and F2c in deep-inelastic scattering at HERA. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 528, 199-214.	4.1	97
20	Measurement of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Î½</mml:mi><mml:mi>Î¼</mml:mi></mml:msub></mml:math>and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mover accent="true"><mml:mi>Î½</mml:mi><mml:mo>Â¯</mml:mo></mml:mover><mml:mi>Î¼</mml:mi></mml:msub></mml:math>induce neutral current single<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mi>Ï€</mml:mi><mml:mn>0</mml:mn></mml:. Physical Review D, 2010,	4.7	81
21	Measurement and QCD analysis of jet cross sections in deep-inelastic positron-proton collisions at $sqrt{s}$ of 300 GeV. European Physical Journal C, 2001, 19, 289-311.	3.9	76
22	Experimental requirements to determine the neutrino mass hierarchy using reactor neutrinos. Physical Review D, 2009, 79, .	4.7	73
23	First observation of coherent <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:msup><mml:mi>Ï€</mml:mi><mml:mn>0</mml:mn></mml:msup></mml:math> production in neutrinoâ€"nucleus interactions with <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si2.gif" … mml:mi></mml:msub><mml:mo><</mml:mo><mml:mn>2</mml	4.1	72
24	Dual baseline search for muon neutrino disappearance at<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mn>0.5</mml:mn><mml:mtext>â€‰</mml:mtext><mml:mtext>â€‰</mml:mtext><mml:msup><mml:mi>eV</ Physical Review D, 2012, 85, .	4.7	71
25	Production of a gadolinium-loaded liquid scintillator for the Daya Bay reactor neutrino experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 763, 82-88.	1.6	68
26	A new design of large area MCP-PMT for the next generation neutrino experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2012, 695, 113-117.	1.6	60
27	Search for Muon Neutrino and Antineutrino Disappearance in MiniBooNE. Physical Review Letters, 2009, 103, 061802.	7.8	49
28	Measurement of the Ratio of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Î½</mml:mi><mml:mi>Î¼</mml:mi></mml:msub></mml:math>Charged-Current Single-Pion Production to Quasielastic Scattering with a 0.8ÂGeV Neutrino Beam on Mineral Oil. Physical Review Letters, 2009, 103, 081801.	7.8	44
29	Muon-decay medium-baseline neutrino beam facility. Physical Review Special Topics: Accelerators and Beams, 2014, 17, .	1.8	44
30	Diffractive jet production in deep-inelastic e^+p collisions at HERA. European Physical Journal C, 2001, 20, 29-49.	3.9	43
31	Search for compositeness, leptoquarks and large extra dimensions in eq contact interactions at HERA. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 479, 358-370.	4.1	39
32	Calibration strategy of the JUNO experiment. Journal of High Energy Physics, 2021, 2021, 1.	4.7	39
33	Status and perspectives of neutrino physics. Progress in Particle and Nuclear Physics, 2022, 124, 103947.	14.4	31
34	Energy flow and rapidity gaps between jets in photoproduction at HERA. European Physical Journal C, 2002, 24, 517-527.	3.9	30
35	Three-jet production in deep-inelastic scattering at HERA. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 515, 17-29.	4.1	26
36	Measurement of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Î½</mml:mi><mml:mi>Î¼</mml:mi></mml:msub></mml:math>and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Î½</mml:mi><mml:mi>e</mml:mi></mml:msub></mml:math>Events in an Off-Axis Horn-Focused Neutrino Beam. Physical Review Letters, 2009, 102, 211801.	7.8	26

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37	Feasibility and physics potential of detecting ⁸B solar neutrinos at JUNO *. Chinese Physics C, 2021, 45, 023004.	3.7	26
38	Measurement of di-jet cross-sections in photoproduction and photon structure. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 483, 36-48.	4.1	24
39	Study of absorption and re-emission processes in a ternary liquid scintillation system. Chinese Physics C, 2010, 34, 1724-1728.	3.7	24
40	Physics potential of searching for 0 <i>Î½</i> Î²Î² decays in JUNO. Chinese Physics C, 2017, 41, 053001.	3.7	24
41	A measurement of the t dependence of the helicity structure of diffractive Ï•meson electroproduction at HERA. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 539, 25-39.	4.1	22
42	A study of antineutrino spectra from spent nuclear fuel at Daya Bay. Chinese Physics C, 2012, 36, 1-5.	3.7	22
43	An overview of the Daya Bay reactor neutrino experiment. Nuclear Physics B, 2016, 908, 62-73.	2.5	22
44	Electromagnetic transition form factor of pseudoscalar mesons andÎ·âˆ'Î·â€²mixing. Physical Review D, 1998, 58, .	4.7	21
45	Search for odderon-induced contributions to exclusive Ï€0 photoproduction at HERA. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 544, 35-43.	4.1	21
46	Photoproduction with a leading proton at HERA. Nuclear Physics B, 2001, 619, 3-21.	2.5	20
47	An underground cosmic-ray detector made of RPC. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 583, 278-284.	1.6	20
48	Timing properties and pulse shape discrimination of LAB-based liquid scintillator. Chinese Physics C, 2011, 35, 1026-1032.	3.7	20
49	Rayleigh scattering of linear alkylbenzene in large liquid scintillator detectors. Review of Scientific Instruments, 2015, 86, 073310.	1.3	20
50	Towards the meV limit of the effective neutrino mass in neutrinoless double-beta decays *. Chinese Physics C, 2020, 44, 031001.	3.7	20
51	A search for leptoquark bosons in eâˆ'p collisions at HERA. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 523, 234-242.	4.1	19
52	Daya Bay Neutrino Experiment. Nuclear Physics, Section B, Proceedings Supplements, 2006, 155, 229-230.	0.4	19
53	Determining Reactor Neutrino Flux. Nuclear Physics, Section B, Proceedings Supplements, 2012, 229-232, 205-209.	0.4	17
54	Constraining absolute neutrino masses via detection of galactic supernova neutrinos at JUNO. Journal of Cosmology and Astroparticle Physics, 2015, 2015, 044-044.	5.4	17

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55	Potential of geo-neutrino measurements at JUNO. Chinese Physics C, 2016, 40, 033003.	3.7	16
56	Dâˆ—Â± meson production in deep-inelastic diffractive interactions at HERA. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 520, 191-203.	4.1	15
57	Measurement of the fluorescence quantum yield of bis-MSB. Chinese Physics C, 2015, 39, 126001.	3.7	15
58	The design and sensitivity of JUNOâ€™s scintillator radiopurity pre-detector OSIRIS. European Physical Journal C, 2021, 81, 1.	3.9	15
59	Hard scattering amplitude for the higher helicity components of the pion form factor. Physical Review D, 1997, 55, 7107-7113.	4.7	14
60	Search for excited neutrinos at HERA. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 525, 9-16.	4.1	13
61	Measurement of decay time of liquid scintillator. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2008, 587, 300-303.	1.6	13
62	Neutronâ€“gamma discrimination of CsI(Na) crystals for dark matter searches. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 642, 52-58.	1.6	13
63	Acrylic target vessels for a high-precision measurement of Î¸13with the Daya Bay antineutrino detectors. Journal of Instrumentation, 2012, 7, P06004-P06004.	1.2	13
64	Radioactivity control strategy for the JUNO detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	13
65	Measuring cosmogenic 9Li background in a reactor neutrino experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 564, 471-474.	1.6	12
66	Attenuation length measurements of a liquid scintillator with LabVIEW and reliability evaluation of the device. Chinese Physics C, 2013, 37, 076001.	3.7	12
67	Search for core-collapse supernovae using the MiniBooNE neutrino detector. Physical Review D, 2010, 81, .	4.7	11
68	JUNO sensitivity to low energy atmospheric neutrino spectra. European Physical Journal C, 2021, 81, 1.	3.9	11
69	Systematic impact of spent nuclear fuel on Î¸13 sensitivity at reactor neutrino experiment. Chinese Physics C, 2009, 33, 711-716.	3.7	9
70	Study of a prototype detector for the Daya Bay neutrino experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 602, 489-493.	1.6	8
71	Fast light of CsI(Na) crystals. Chinese Physics C, 2011, 35, 1130-1133.	3.7	8
72	Compatibility of high-Î”m2Î½eandÎ½Â¯eneutrino oscillation searches. Physical Review D, 2008, 78, .	4.7	6

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73	Temperature dependence of the light yield of the LAB-based and mesitylene-based liquid scintillators. Chinese Physics C, 2014, 38, 116001.	3.7	6
74	Rayleigh scattering and depolarization ratio in linear alkylbenzene. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 795, 284-287.	1.6	6
75	Maximum likelihood reconstruction of a detector with reflective panels. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 629, 296-302.	1.6	5
76	Detection methods at reactor neutrino experiments. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 732, 9-15.	1.6	5
77	A liquid scintillator for a neutrino detector working at â^'50 degree. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2021, 1009, 165459.	1.6	5
78	Narrow width of a glueball decay into two mesons. Physical Review D, 1998, 57, 4154-4159.	4.7	4
79	Study of a prototype water Cherenkov detector for the Daya Bay neutrino experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2012, 682, 26-30.	1.6	4
80	Spectroscopic study of light scattering in linear alkylbenzene for liquid scintillator neutrino detectors. European Physical Journal C, 2015, 75, 1.	3.9	4
81	Deuteron electromagnetic form factors in the intermediate energy region. Physical Review C, 1996, 54, 1006-1009.	2.9	3
82	Measurement of the liquid scintillator nonlinear energy response to electron. Chinese Physics C, 2015, 39, 016003.	3.7	3
83	Thermal diffusivity and specific heat capacity of linear alkylbenzene. Physica Scripta, 2019, 94, 105701.	2.5	3
84	Light-cone QCD predictions for elasticedscattering in the intermediate energy region. Physical Review C, 1997, 55, 2191-2195.	2.9	2
85	Fluorocarbon paint on Daya Bay antineutrino detectors. Science China Technological Sciences, 2012, 55, 1572-1575.	4.0	2
86	Neutrino oscillation: discovery and perspectives. Science Bulletin, 2016, 61, 48-51.	9.0	2
87	The replacement system of the JUNO liquid scintillator pilot experiment at Daya Bay. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2021, 996, 165109.	1.6	2
88	Radiogenic neutron background in reactor neutrino experiments. Physical Review D, 2021, 104, .	4.7	2
89	Measurement of proton quenching in a LAB-based liquid scintillator. Radiation Detection Technology and Methods, 2019, 3, 1.	0.8	1
90	A commentary of â€œBreaking the matter-antimatter mirror symmetryâ€ï¼š 10 remarkable discoveries from 2020 in Nature. Fundamental Research, 2022, 2, 335-336.	3.3	1

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91	Measurement of dijet electroproduction at small jet separation. European Physical Journal C, 2002, 24, 33-41.	3.9	0
92	Radiation studies for the MOMENT target station. Chinese Physics C, 2016, 40, 126001.	3.7	0
93	Improving the energy resolution of the reactor antineutrino energy reconstruction with positron direction. Radiation Detection Technology and Methods, 2020, 4, 356-361.	0.8	0
94	The Reactor Neutrino Energy Spectrum Measurement with a High Pressure Gas TPC Detector. , 2020, , .		0