Jun Cao

List of Publications by Year in descending order

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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	A commentary of â€œBreaking the matter-antimatter mirror symmetryâ€¼š 10 remarkable discoveries from 2020 in Nature. Fundamental Research, 2022, 2, 335-336.	3.3	1
2	Status and perspectives of neutrino physics. Progress in Particle and Nuclear Physics, 2022, 124, 103947.	14.4	31
3	Calibration strategy of the JUNO experiment. Journal of High Energy Physics, 2021, 2021, 1.	4.7	39
4	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
5	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
6	Feasibility and physics potential of detecting ⁸B solar neutrinos at JUNO *. Chinese Physics C, 2021, 45, 023004.	3.7	26
7	JUNO sensitivity to low energy atmospheric neutrino spectra. European Physical Journal C, 2021, 81, 1.	3.9	11
8	The design and sensitivity of JUNOâ€™s scintillator radiopurity pre-detector OSIRIS. European Physical Journal C, 2021, 81, 1.	3.9	15
9	Radioactivity control strategy for the JUNO detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	13
10	Radiogenic neutron background in reactor neutrino experiments. Physical Review D, 2021, 104, .	4.7	2
11	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
12	Towards the meV limit of the effective neutrino mass in neutrinoless double-beta decays *. Chinese Physics C, 2020, 44, 031001.	3.7	20
13	The Reactor Neutrino Energy Spectrum Measurement with a High Pressure Gas TPC Detector. , 2020, , .		0
14	Thermal diffusivity and specific heat capacity of linear alkylbenzene. Physica Scripta, 2019, 94, 105701.	2.5	3
15	Measurement of proton quenching in a LAB-based liquid scintillator. Radiation Detection Technology and Methods, 2019, 3, 1.	0.8	1
16	Physics potential of searching for 0 Î½ Î²Î² decays in JUNO. Chinese Physics C, 2017, 41, 053001.	3.7	24
17	Radiation studies for the MOMENT target station. Chinese Physics C, 2016, 40, 126001.	3.7	0
18	Neutrino physics with JUNO. Journal of Physics G: Nuclear and Particle Physics, 2016, 43, 030401.	3.6	750

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19	An overview of the Daya Bay reactor neutrino experiment. Nuclear Physics B, 2016, 908, 62-73.	2.5	22
20	Neutrino oscillation: discovery and perspectives. Science Bulletin, 2016, 61, 48-51.	9.0	2
21	Potential of geo-neutrino measurements at JUNO. Chinese Physics C, 2016, 40, 033003.	3.7	16
22	Measurement of the fluorescence quantum yield of bis-MSB. Chinese Physics C, 2015, 39, 126001.	3.7	15
23	Rayleigh scattering of linear alkylbenzene in large liquid scintillator detectors. Review of Scientific Instruments, 2015, 86, 073310.	1.3	20
24	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
25	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
26	Spectroscopic study of light scattering in linear alkylbenzene for liquid scintillator neutrino detectors. European Physical Journal C, 2015, 75, 1.	3.9	4
27	Measurement of the liquid scintillator nonlinear energy response to electron. Chinese Physics C, 2015, 39, 016003.	3.7	3
28	Temperature dependence of the light yield of the LAB-based and mesitylene-based liquid scintillators. Chinese Physics C, 2014, 38, 116001.	3.7	6
29	Muon-decay medium-baseline neutrino beam facility. Physical Review Special Topics: Accelerators and Beams, 2014, 17, .	1.8	44
30	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
31	Attenuation length measurements of a liquid scintillator with LabVIEW and reliability evaluation of the device. Chinese Physics C, 2013, 37, 076001.	3.7	12
32	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
33	Unambiguous determination of the neutrino mass hierarchy using reactor neutrinos. Physical Review D, 2013, 88, .	4.7	177
34	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</mml:mi></mml:msup></mml:math>2Physical Review D, 2012, 85, .	4.7	71
35	A study of antineutrino spectra from spent nuclear fuel at Daya Bay. Chinese Physics C, 2012, 36, 1-5.	3.7	22
36	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

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37	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
38	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
39	Determining Reactor Neutrino Flux. Nuclear Physics, Section B, Proceedings Supplements, 2012, 229-232, 205-209.	0.4	17
40	Observation of Electron-Antineutrino Disappearance at Daya Bay. Physical Review Letters, 2012, 108, 171803.	7.8	1,751
41	Fluorocarbon paint on Daya Bay antineutrino detectors. Science China Technological Sciences, 2012, 55, 1572-1575.	4.0	2
42	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
43	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
44	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
45	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:mn> Physical Review D, 2011, 83, .	4.7	122
46	Timing properties and pulse shape discrimination of LAB-based liquid scintillator. Chinese Physics C, 2011, 35, 1026-1032.	3.7	20
47	Fast light of CsI(Na) crystals. Chinese Physics C, 2011, 35, 1130-1133.	3.7	8
48	Study of absorption and re-emission processes in a ternary liquid scintillation system. Chinese Physics C, 2010, 34, 1724-1728.	3.7	24
49	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</mml:mn> Physical Review D, 2010, 82, .	4.7	122
50	Search for core-collapse supernovae using the MiniBooNE neutrino detector. Physical Review D, 2010, 81, .	4.7	11
51	First measurement of the muon neutrino charged current quasielastic double differential cross section. Physical Review D, 2010, 81, .	4.7	341
52	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:msup></mml:. Physical Review D, 2010,	4.7	81
53	Search for Muon Neutrino and Antineutrino Disappearance in MiniBooNE. Physical Review Letters, 2009, 103, 061802.	7.8	49
54	Unexplained Excess of Electronlike Events from a 1-GeV Neutrino Beam. Physical Review Letters, 2009, 102, 101802.	7.8	292

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55	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	7.8	26
56	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
57	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
58	Neutrino flux prediction at MiniBooNE. Physical Review D, 2009, 79, .	4.7	208
59	Experimental requirements to determine the neutrino mass hierarchy using reactor neutrinos. Physical Review D, 2009, 79, .	4.7	73
60	Systematic impact of spent nuclear fuel on Î¸13 sensitivity at reactor neutrino experiment. Chinese Physics C, 2009, 33, 711-716.	3.7	9
61	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" overflow="scroll"><mml:msub><mml:mi>E</mml:mi><mml:mrow><mml:mi>ν</mml:mi></mml:mrow></mml:msub><mml:mo<</mml:mo><mml:mn>2</mml:mn>	4.1	72
62	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
63	Compatibility of high-Î”m2Î½eandÎ½Â¯eneutrino oscillation searches. Physical Review D, 2008, 78, .	4.7	6
64	Determination of the neutrino mass hierarchy at an intermediate baseline. Physical Review D, 2008, 78, .	4.7	98
65	Measurement of Muon Neutrino Quasielastic Scattering on Carbon. Physical Review Letters, 2008, 100, 032301.	7.8	151
66	Search for Electron Neutrino Appearance at theÎ”m2â^¼1â€‰â€‰eV2Scale. Physical Review Letters, 2007, 98, 231801.	7.8	422
67	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
68	Daya Bay Neutrino Experiment. Nuclear Physics, Section B, Proceedings Supplements, 2006, 155, 229-230.	0.4	19
69	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
70	Measurement and QCD analysis of neutral and charged current cross sections at HERA. European Physical Journal C, 2003, 30, 1-32.	3.9	187
71	Energy flow and rapidity gaps between jets in photoproduction at HERA. European Physical Journal C, 2002, 24, 517-527.	3.9	30
72	Measurement of dijet electroproduction at small jet separation. European Physical Journal C, 2002, 24, 33-41.	3.9	0

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73	Search for excited neutrinos at HERA. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 525, 9-16.	4.1	13
74	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
75	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
76	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
77	Photoproduction with a leading proton at HERA. Nuclear Physics B, 2001, 619, 3-21.	2.5	20
78	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
79	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
80	Diffractive jet production in deep-inelastic e^+p collisions at HERA. European Physical Journal C, 2001, 20, 29-49.	3.9	43
81	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
82	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
83	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
84	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
85	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
86	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
87	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
88	Elastic photoproduction of J/Îˆ and Ï' mesons at HERA. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 483, 23-35.	4.1	153
89	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
90	Electromagnetic transition form factor of pseudoscalar mesons andÎ·â˜Î·â€²mixing. Physical Review D, 1998, 58, .	4.7	21

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91	Narrow width of a glueball decay into two mesons. Physical Review D, 1998, 57, 4154-4159.	4.7	4
92	Hard scattering amplitude for the higher helicity components of the pion form factor. Physical Review D, 1997, 55, 7107-7113.	4.7	14
93	Light-cone QCD predictions for elasticedscattering in the intermediate energy region. Physical Review C, 1997, 55, 2191-2195.	2.9	2
94	Deuteron electromagnetic form factors in the intermediate energy region. Physical Review C, 1996, 54, 1006-1009.	2.9	3