Jiunn-Wei Chen

List of Publications by Year
in descending order

114 papers	4,365 citations	81900 39 h-index	118850 62 g-index
116 all docs	116 docs citations	116 times ranked	1780 citing authors

#	Article	IF	Citations
1	Entanglement Entropy and Quantum Phase Transition in the O(N) Ïƒ-model. Journal of High Energy Physics, 2021, 2021, 1.	4.7	2
2	Chiral perturbation for large momentum effective field theory. Physical Review D, 2021, 104, .	4.7	6
3	Valence-quark distribution of the kaon and pion from lattice QCD. Physical Review D, 2021, 103, .	4.7	45
4	Renormalon effects in quasiparton distributions. Physical Review D, 2021, 104, .	4.7	5
5	On the renormalization of entanglement entropy. AAPPS Bulletin, 2021, 31, 1.	6.1	13
6	Strong coupling expansion of the entanglement entropy of Yang-Mills gauge theories. Nuclear Physics B, 2020, 951, 114892.	2.5	3
7	Model-independent determination of the Migdal effect via photoabsorption. Physical Review D, 2020, 102, .	4.7	29
8	Pion and kaon distribution amplitudes in the continuum limit. Physical Review D, 2020, 102, .	4.7	35
9	Unpolarized isovector quark distribution function from lattice QCD: A systematic analysis of renormalization and matching. Physical Review D, 2020, 101, .	4.7	50
10	Gene-mating dynamic evolution theory: fundamental assumptions, exactly solvable models and analytic solutions. Theory in Biosciences, 2020, 139, 105-134.	1.4	1
11	Pion generalized parton distribution from lattice QCD. Nuclear Physics B, 2020, 952, 114940.	2.5	53
12	Constraints from a many-body method on spin-independent dark matter scattering off electrons using data from germanium and xenon detectors. Physical Review D, 2020, 102, .	4.7	10
13	First direct lattice-QCD calculation of the x-dependence of the pion parton distribution function. Physical Review D, 2019, 100, .	4.7	86
14	Symmetry properties of nonlocal quark bilinear operators on a Lattice (LP^3) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 222 Td ((	3.7	29
15	Discovery potential of multiton xenon detectors in neutrino electromagnetic properties. Physical Review D, 2019, 100, .	4.7	17
16	Kaon distribution amplitude from lattice QCD and the flavor SU(3) symmetry. Nuclear Physics B, 2019, 939, 429-446.	2.5	56
17	Bell inequality in the holographic EPR pair. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 791, 73-79.	4.1	2
18	Towards searching for entangled photons in the CMB sky. Physical Review D, 2019, 99, .	4.7	6

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19	Parton distributions and lattice QCD calculations: A community white paper. Progress in Particle and Nuclear Physics, 2018, 100, 107-160.	14.4	186
20	Parton distribution function with nonperturbative renormalization from lattice QCD. Physical Review D, 2018, 97, .	4.7	97
21	Proton Isovector Helicity Distribution on the Lattice at Physical Pion Mass. Physical Review Letters, 2018, 121, 242003.	7.8	73
22	Improved parton distribution functions at the physical pion mass. Physical Review D, 2018, 98, .	4.7	54
23	Parton distribution functions from reduced Ioffe-time distributions. Physical Review D, 2018, 97, .	4.7	42
24	Improved quasi parton distribution through Wilson line renormalization. Nuclear Physics B, 2017, 915, 1-9.	2.5	87
25	Pion distribution amplitude from lattice QCD. Physical Review D, 2017, 95, .	4.7	111
26	Universal relations between non-Gaussian fluctuations in heavy-ion collisions. Physical Review D, 2017, 95, .	4.7	7
27	Short-Range Correlations and the EMC Effect in Effective Field Theory. Physical Review Letters, 2017, 119, 262502.	7.8	30
28	Low-energy electronic recoil in xenon detectors by solar neutrinos. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 774, 656-661.	4.1	45
29	Nucleon helicity and transversity parton distributions from lattice QCD. Nuclear Physics B, 2016, 911, 246-273.	2.5	164
30	Robust characteristics of non-Gaussian fluctuations from the NJL model. Physical Review D, 2016, 93, .	4.7	31
31	Nonlinear chiral transport phenomena. Physical Review D, 2016, 93, .	4.7	27
32	Atomic ionization by sterile-to-active neutrino conversion and constraints on dark matter sterile neutrinos with germanium detectors. Physical Review D, 2016, 93, .	4.7	12
33	Engineering holographic phase diagrams. Physical Review D, 2016, 94, .	4.7	3
34	Baryon susceptibilities, non-Gaussian moments, and the QCD critical point. Physical Review D, 2015, 92, .	4.7	21
35	Electronic and nuclear contributions in sub-GeV dark matter scattering: A case study with hydrogen. Physical Review D, 2015, 92, .	4.7	17
36	Constraining neutrino electromagnetic properties by germanium detectors. Physical Review D, 2015, 91, .	4.7	32

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37	Flavor structure of the nucleon sea from lattice QCD. Physical Review D, 2015, 91, .	4.7	146
38	Fermi gases with imaginary mass imbalance and the sign problem in Monte-Carlo calculations. Journal of Physics G: Nuclear and Particle Physics, 2014, 41, 055110.	3.6	14
39	Atomic ionization of germanium by neutrinos from an ab initio approach. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 731, 159-162.	4.1	38
40	Constraints on millicharged neutrinos via analysis of data from atomic ionizations with germanium detectors at sub-keV sensitivities. Physical Review D, 2014, 90, .	4.7	55
41	Kinetic equations for massive Dirac fermions in electromagnetic field with non-Abelian Berry phase. Physical Review D, 2014, 89, .	4.7	50
42	Near threshold proton–proton fusion in effective field theory. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 720, 385-388.	4.1	27
43	Ionization of hydrogen by neutrino magnetic moment, relativistic muon, and WIMP. Physical Review D, 2013, 88, .	4.7	13
44	Shear and bulk viscosities of a gluon plasma in perturbative QCD: Comparison of different treatments for the $gg \leftrightarrow ggg$. Physical Review C, 2013, 87, .	2.9	15
45	Berry Curvature and Four-Dimensional Monopoles in the Relativistic Chiral Kinetic Equation. Physical Review Letters, 2013, 110, 262301.	7.8	229
46	Imaginary Polarization as a Way to Surmount the Sign Problem in *Ab Initio* Calculations of Spin-Imbalanced Fermi Gases. Physical Review Letters, 2013, 110, 130404.	7.8	22
47	Shear and bulk viscosities of a weakly coupled quark gluon plasma with finite chemical potential and temperature: Leading-log results. Physical Review D, 2013, 87, .	4.7	11
48	Negative off-diagonal conductivities in a weakly coupled quark-gluon plasma at the leading-log order. Physical Review D, 2013, 88, .	4.7	13
49	Parity-violating quantum kinetic theory in (2+1) dimensions. Physical Review D, 2013, 88, .	4.7	12
50	Quark-mass dependence of two-nucleon observables. Physical Review C, 2012, 86, .	2.9	16
51	Novel parity violating transport coefficients in 2 + 1 dimensions from holography. Journal of High Energy Physics, 2012, 2012, 1.	4.7	17
52	A holographic model for hall viscosity. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 713, 47-52.	4.1	22
53	Shear viscosity in weakly coupled N -component scalar field theories. Physical Review D, 2011, 83, .	4.7	2
54	Model analysis of thermal UV-cutoff effects on the chiral critical surface at finite temperature and chemical potential. Physical Review D, 2011, 83, .	4.7	3

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55	d + id holographic superconductors. Journal of High Energy Physics, 2011, 2011, 1.	4.7	16
56	Minimum shear viscosity over entropy density at phase transition?—A counterexample. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 701, 327-331.	4.1	10
57	How perfect can a gluon plasma be in perturbative QCD?. Physical Review D, 2011, 83, .	4.7	20
58	Shear viscosity of a gluon plasma in perturbative QCD. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 685, 277-282.	4.1	34
59	Space- and time-like electromagnetic pion form factors in light-cone pQCD. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 693, 102-107.	4.1	11
60	Model analysis on thermal UV-cutoff effects on the critical boundary in hot QCD. Physical Review D, 2010, 81, .	4.7	5
61	Towards a holographic model of D-wave superconductors. Physical Review D, 2010, 81, .	4.7	74
62	Peak-dip-hump lineshape from holographic superconductivity. Physical Review D, 2010, 82, .	4.7	17
63	Bulk viscosity of a gas of massless pions. Physical Review C, 2009, 79, .	2.9	44
64	Universality of mixed action extrapolation formulae. Journal of High Energy Physics, 2009, 2009, 090-090.	4.7	41
65	$U_A(1)$ Physical Review D, 2009, 80, .	4.7	24
66	ππscattering in twisted mass chiral perturbation theory. Physical Review D, 2009, 79, .	4.7	9
67	Mixed action effective field theory: An addendum. Physical Review D, 2009, 79, .	4.7	26
68	Phase transitions and perfectness of fluids in weakly coupled real scalar field theories. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 670, 18-21.	4.1	36
69	Phase Transitions and the Perfectness of Fluids. Progress of Theoretical Physics Supplement, 2008, 174, 145-152.	0.1	2
70	BEC-BCS crossover in the ϵ expansion. Physical Review A, 2007, 75, .	2.5	28
71	QCD viscosity to entropy density ratio in the hadronic phase. Physical Review D, 2007, 76, .	4.7	70
72	Two meson systems with Ginsparg-Wilson valence quarks. Physical Review D, 2007, 75, .	4.7	52

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73	Generalized parton distributions of the pion in partially-quenched chiral perturbation theory. Physical Review D, 2007, 75, .	4.7	13
74	Shear viscosity to entropy density ratio of QCD below the deconfinement temperature. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2007, 647, 371-375.	4.1	71
75	GENERALIZED PARTON DISTRIBUTIONS IN EFFECTIVE FIELD THEORY. , 2007, , .		0
76	Model-independent results for SU(3) violation in twist-3 light-cone distribution functions. Physical Review D, 2006, 73, .	4.7	14
77	Leading chiral corrections to the nucleon generalized parton distributions. Physical Review D, 2006, 74, .	4.7	38
78	Ginsparg-Wilson pions scattering in a sea of staggered quarks. Physical Review D, 2006, 73, .	4.7	44
79	Twisted valence quarks and hadron interactions on the lattice. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2005, 616, 208-214.	4.1	68
80	Deuteron Compton scattering in effective field theory and spin-independent nucleon polarizabilities. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2005, 620, 33-41.	4.1	8
81	Universality of the EMC effect. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2005, 625, 165-170.	4.1	22
82	Fixing two-nucleon weak-axial couplingL1,AfromÎ¼âˆ'dcapture. Physical Review C, 2005, 72, .	2.9	21
83	Deuteron Compton scattering in effective field theory: Spin-dependent cross sections and asymmetries. Physical Review C, 2005, 71, .	2.9	9
84	Model-Independent Results for SU(3) Violation in Light-Cone Distribution Functions. Physical Review Letters, 2004, 92, 202001.	7.8	30
85	Inequalities for Light Nuclei in the Wigner Symmetry Limit. Physical Review Letters, 2004, 93, 242302.	7.8	39
86	Lattice Theory for Low Energy Fermions at Nonzero Chemical Potential. Physical Review Letters, 2004, 92, 257002.	7.8	62
87	EFFECTIVE FIELD THEORY IN NUCLEAR ASTROPHYSICS. Modern Physics Letters A, 2004, 19, 1215-1222.	1.2	0
88	Drellâ€"Hearnâ€"Gerasimov sum-rule for the deuteron in nuclear effective field theory. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 603, 6-12.	4.1	7
89	Soft pion emission in DVCS. Nuclear Physics A, 2004, 735, 441-448.	1.5	9
90	Constraining the leading weak axial two-body current by recent solar neutrino flux data. Physical Review C, 2003, 67, .	2.9	30

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91	Leading Chiral Contributions to the Spin Structure of the Proton. Physical Review Letters, 2002, 88, 052003.	7.8	61
92	Chiral extrapolation of strange matrix elements in the nucleon. Physical Review D, 2002, 66, .	4.7	16
93	Baryons in partially quenched chiral perturbation theory. Physical Review D, 2002, 65, .	4.7	73
94	Connecting the quenched and unquenched worlds via the large NcÂworld. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 543, 183-188.	4.1	8
95	Matrix elements of twist-2 operators in quenched chiral perturbation theory. Nuclear Physics A, 2002, 707, 452-468.	1.5	18
96	Constraints on two-body axial currents from reactor antineutrinoâ€"deuteron breakup reactions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 549, 26-31.	4.1	36
97	Parity-violating pionâ€"nucleon coupling hÏ€NN(1) from Ï€+-electroproton production near the threshold. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 501, 209-215.	4.1	17
98	Protonâ€"proton fusion in effective field theory to fifth order. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 520, 87-91.	4.1	60
99	Is the Sullivan process compatible with QCD chiral dynamics?. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 523, 107-110.	4.1	71
100	Large-Nc quark distributions in the delta and chiral logarithms in quark distributions of the nucleon. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 523, 73-78.	4.1	20
101	Neutrinoâ€"deuteron scattering in effective field theory. Nuclear Physics A, 2001, 684, 484-486.	1.5	0
102	Neutrino-deuteron scattering in effective field theory at next-to-next-to-leading order. Physical Review C, 2001, 63, .	2.9	113
103	Constructing Parton Convolution in Effective Field Theory. Physical Review Letters, 2001, 87, 152002.	7.8	48
104	Measuring theP-Odd Pion-Nucleon CouplinghÏ€NN(1)inÏ€+-Photoproton Production near Threshold. Physical Review Letters, 2001, 86, 4239-4242.	7.8	18
105	Effective Field Theory in Nuclear Astrophysics. , 2001, , .		0
106	Elastic and inelastic neutrinoâ€"deuteron scattering in effective field theory. Nuclear Physics A, 2000, 675, 575-600.	1.5	64
107	npâ†'dÎ³for big-bang nucleosynthesis. Physical Review C, 1999, 60, .	2.9	86
108	Isoscalar M1 and E2 amplitudes in npâ†'dÎ³. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 464, 1-11.	4.1	54

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109	Tensor polarized Î³-deuteron Compton scattering in effective field theory. Nuclear Physics A, 1999, 653, 375-385.	1.5	9
110	Nucleon-nucleon effective field theory without pions. Nuclear Physics A, 1999, 653, 386-412.	1.5	254
111	The polarizability of the deuteron. Nuclear Physics A, 1998, 644, 221-234.	1.5	48
112	Î³-deuteron Compton scattering in effective field theory. Nuclear Physics A, 1998, 644, 245-259.	1.5	41
113	Hadronic and electromagnetic interactions of quarkonia. Physical Review D, 1998, 57, 2837-2846.	4.7	16
114	Higgs boson production via the Bjorken processe+eâ~'â†'H0Î¼+Î¼â~'at high energye+eâ~'colliders. Physical Review D, 1994, 50, 4485-4490.	4.7	2