Lei Chang

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/4473406/publications.pdf

Version: 2024-02-01

100	5,012	66343	88630
papers	citations	42 h-index	70 g-index

100	100	100	1044
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Collective Perspective on Advances in Dysonâ€"Schwinger Equation QCD. Communications in Theoretical Physics, 2012, 58, 79-134.	2.5	259
2	Sketching the Bethe-Salpeter Kernel. Physical Review Letters, 2009, 103, 081601.	7.8	217
3	Electron-ion collider in China. Frontiers of Physics, 2021, 16, 1.	5.0	208
4	Imaging Dynamical Chiral-Symmetry Breaking: Pion Wave Function on the Light Front. Physical Review Letters, 2013, 110, 132001.	7.8	193
5	STUDIES OF NUCLEON RESONANCE STRUCTURE IN EXCLUSIVE MESON ELECTROPRODUCTION. International Journal of Modern Physics E, 2013, 22, 1330015.	1.0	193
6	Interaction model for the gap equation. Physical Review C, 2011, 84, .	2.9	175
7	Bridging a gap between continuum-QCD and ab initio predictions of hadron observables. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 742, 183-188.	4.1	175
8	Phase Diagram and Critical End Point for Strongly Interacting Quarks. Physical Review Letters, 2011, 106, 172301.	7.8	161
9	Pion Electromagnetic Form Factor at Spacelike Momenta. Physical Review Letters, 2013, 111, 141802.	7.8	146
10	Dressed-Quark Anomalous Magnetic Moments. Physical Review Letters, 2011, 106, 072001.	7.8	144
11	Investigation of rainbow-ladder truncation for excited and exotic mesons. Physical Review C, 2012, 85, .	2.9	114
12	Pion and kaon structure at the electron-ion collider. European Physical Journal A, 2019, 55, 1.	2.5	110
13	Insights into the emergence of mass from studies of pion and kaon structure. Progress in Particle and Nuclear Physics, 2021, 120, 103883.	14.4	102
14	Masses of Ground- and Excited-State Hadrons. Few-Body Systems, 2011, 51, 1-25.	1.5	98
15	Tracing masses of ground-state light-quark mesons. Physical Review C, 2012, 85, .	2.9	94
16	Nucleon and Roper electromagnetic elastic and transition form factors. Physical Review C, 2012, 85, .	2.9	92
17	Symmetry preserving truncations of the gap and Bethe-Salpeter equations. Physical Review D, 2016, 93, .	4.7	86
18	Spectrum of Hadrons with Strangeness. Few-Body Systems, 2012, 53, 293-326.	1.5	82

#	Article	IF	Citations
19	Structure of the neutral pion and its electromagnetic transition form factor. Physical Review D, 2016, 93, .	4.7	78
20	Natural constraints on the gluon-quark vertex. Physical Review D, 2017, 95, .	4.7	77
21	Dynamical chiral symmetry breaking and the fermionâ€“gauge-boson vertex. Physical Review C, 2012, 85, .	2.9	76
22	Practical corollaries of transverse Wardâ€“Greenâ€“Takahashi identities. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 722, 384-388.	4.1	76
23	Basic features of the pion valence-quark distribution function. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 737, 23-29.	4.1	76
24	New approach for calculating the dressed quark propagator at finite chemical potential. Physical Review C, 2005, 71, .	2.9	75
25	Symmetry, symmetry breaking, and pion parton distributions. Physical Review D, 2020, 101, .	4.7	75
26	Valence-quark distribution functions in the kaon and pion. Physical Review D, 2016, 93, .	4.7	72
27	Kaon and pion parton distributions. European Physical Journal C, 2020, 80, 1.	3.9	65
28	Dynamical chiral symmetry breaking and a critical mass. Physical Review C, 2007, 75, .	2.9	63
29	Flavor symmetry breaking and meson masses. Physical Review C, 2007, 76, .	2.9	61
30	Kaon and pion parton distribution amplitudes to twist three. Physical Review D, 2015, 92, .	4.7	58
31	Revealing the structure of light pseudoscalar mesons at the electronâ€“ion collider. Journal of Physics G: Nuclear and Particle Physics, 2021, 48, 075106.	3.6	58
32	Sketching the pion's valence-quark generalised parton distribution. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 741, 190-196.	4.1	56
33	Pion and kaon valence-quark parton quasidistributions. Physical Review D, 2018, 97, .	4.7	55
34	Pion Distribution Amplitude from Lattice QCD. Physical Review Letters, 2013, 111, 092001.	7.8	54
35	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msup><mml:mrow><mml:mi>Î³</mml:mi></mml:mrow><mml:mrow><mml:mo>*</mml:mo></mml:mrow></mml:msup><mml:mo stretchy="false">â†’</mml:mo><mml:mi>Î·</mml:mi><mml:mo>,</mml:mo><mml:msup><mml:mrow><mml:mi>Î·</mml:mi></mml:mrow><mml:mrow><mml:mo>′</mml:mo></mml:mrow></mml:msup></mml:mrow></mml:math> transition form factors. Physical Review D, 2019, 99, .	4.7	52
36	Leading-twist parton distribution amplitudes of S-wave heavy-quarkonia. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 753, 330-335.	4.1	51

#	Article	IF	Citations
37	Chiral susceptibility and the scalar Ward identity. Physical Review C, 2009, 79, .	2.9	50
38	Quark spectral density and strongly-coupled quark-gluon plasma. Physical Review D, 2011, 84, .	4.7	46
39	Parton distribution amplitudes of light vector mesons. Physical Review D, 2014, 90, .	4.7	46
40	Expanding the concept of in-hadron condensates. Physical Review C, 2012, 85, .	2.9	44
41	Mass dependence of pseudoscalar meson elastic form factors. Physical Review D, 2018, 98, .	4.7	43
42	Exposing strangeness: Projections for kaon electromagnetic form factors. Physical Review D, 2017, 96, .	4.7	42
43	Flavour symmetry breaking in the kaon parton distribution amplitude. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 738, 512-518.	4.1	41
44	Partonic structure of neutral pseudoscalars via two photon transition form factors. Physical Review D, 2017, 95, .	4.7	39
45	Drawing insights from pion parton distributions *. Chinese Physics C, 2020, 44, 031002.	3.7	39
46	Features and flaws of a contact interaction treatment of the kaon. Physical Review C, 2013, 87, .	2.9	38
47	New method for numerically solving the chemical potential dependence of the dressed quark propagator. Physical Review C, 2005, 72, .	2.9	37
48	Distribution amplitudes of heavy-light mesons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 790, 257-262.	4.1	37
49	Distribution amplitudes of light-quark mesons from lattice QCD. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 731, 13-18.	4.1	36
50	FlavorSU(4)breaking between effective couplings. Physical Review D, 2012, 85, .	4.7	35
51	Higgs modulation of emergent mass as revealed in kaon and pion parton distributions. European Physical Journal A, 2021, 57, 1.	2.5	34
52	Parton distribution amplitudes: Revealing correlations within the proton and Roper. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 783, 263-267.	4.1	32
53	Light front distribution of the chiral condensate. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 727, 255-259.	4.1	29
54	Distribution amplitudes of radially-excited<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Ï€</mml:mi></mml:math>and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>K</mml:mi></mml:math>mesons. Physical Review D, 2016, 93, .	4.7	29

#	Article	IF	Citations
55	Revealing pion and kaon structure via generalised parton distributions *. Chinese Physics C, 2022, 46, 013105.	3.7	28
56	Concerning pion parton distributions. European Physical Journal A, 2022, 58, 1.	2.5	25
57	Proton and pion distribution functions in counterpoint. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2022, 830, 137130.	4.1	24
58	Emergence of pion parton distributions. Physical Review D, 2022, 105, .	4.7	24
59	Cold quarks in medium: An equation of state. Physical Review C, 2010, 82, .	2.9	23
60	Phase transition of finite size quark droplets with isospin chemical potential in the Nambuâ€“Jona-Lasinio model. Physical Review D, 2006, 73, .	4.7	22
61	New perspective on hybrid mesons. European Physical Journal A, 2019, 55, 1.	2.5	22
62	Chiral susceptibility and chiral phase transition inÂNambuâ€“Jona-Lasinio model. European Physical Journal C, 2008, 56, 483-492.	3.9	21
63	Bayesian extraction of the parton distribution amplitude from the Betheâ€“Salpeter wave function. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 770, 551-555.	4.1	21
64	Two-photon transition form factor of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mover accent="true"><mml:mi>c</mml:mi><mml:mo stretchy="true">Â¯</mml:mo></mml:mover><mml:mi>c</mml:mi></mml:math> quarkonia. Physical Review D, 2017, 95, .	4.7	21
65	Measures of pion and kaon structure from generalised parton distributions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 815, 136158.	4.1	20
66	Regarding the Distribution of Glue in the Pion. Chinese Physics Letters, 2021, 38, 081101.	3.3	20
67	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>B</mml:mi><mml:mi>c</mml:mi></mml:msub></mml:math> meson spectrum via Dyson-Schwinger equation and Bethe-Salpeter equation approach. Physical Review D, 2020, 101, .	4.7	19
68	Pion valence-quark parton distribution function. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 749, 547-550.	4.1	16
69	Leading-twist distribution amplitudes of scalar and vector mesons. Physical Review D, 2016, 94, .	4.7	16
70	Dynamical diquarks in the $${varvec{gamma ^{(*)} pightarrow N(1535)rac{1}{2}^-}}$$ transition. European Physical Journal A, 2021, 57, 1.	2.5	16
71	Pion parton distribution function in light-front holographic QCD *. Chinese Physics C, 2020, 44, 114105.	3.7	16
72	Parton distributions of light quarks and antiquarks in the proton. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2022, 829, 137078.	4.1	15

#	Article	IF	Citations
73	Valence Quark Ratio in the Proton. Chinese Physics Letters, 2022, 39, 041401.	3.3	15
74	A pattern for the flavor dependent quark-antiquark interaction. Chinese Physics C, 2019, 43, 114103.	3.7	14
75	Soliton with a pion field in the global color symmetry model. Physical Review C, 2006, 73, .	2.9	8
76	Quark anomalous magnetic moment and its effects on the Ï•meson properties. Physical Review D, 2021, 104, .	4.7	8
77	Electromagnetic form factors of neutron and neutral hyperons in the oscillating point of view *. Chinese Physics C, 2022, 46, 073104.	3.7	8
78	Linking continuum and lattice quark mass functions via an effective charge. Physical Review D, 2021, 104, .	4.7	7
79	THE BEHAVIOR OF THE GAUGE-BOSON PROPAGATOR IN THE DIFFERENT PHASES OF QED3. International Journal of Modern Physics A, 2006, 21, 6003-6014.	1.5	6
80	Can the Hyperfine Mass Splitting Formula in Heavy Quarkonia be Applied to the $$B_c$$ System?. Few-Body Systems, 2021, 62, 1.	1.5	6
81	Dressed quark tensor vertex and nucleon tensor charge. Physical Review D, 2019, 99, .	4.7	5
82	Excited Bc states via the Dyson-Schwinger equation approach of QCD. Physical Review D, 2020, 102, .	4.7	5
83	Soliton in the global color model with a sophisticated effective gluon propagator. Physical Review C, 2007, 76, .	2.9	4
84	Empirically charting dynamical chiral symmetry breaking. , 2010, , .		4
85	T(r)opical Dyson-Schwinger Equations. , 2011, , .		4
86	IMPACT OF DYNAMICAL CHIRAL SYMMETRY BREAKING ON MESON STRUCTURE AND INTERACTIONS. International Journal of Modern Physics A, 2011, 26, 371-377.	1.5	4
87	Exposing the effect of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>p</mml:mi></mml:math> -wave component in the pion triplet under a strong magnetic field. Physical Review D, 2022, 105, .	4.7	4
88	QCD PHASE TRANSITION IN DYSONâ€“SCHWINGER EQUATION APPROACH OF QCD. International Journal of Modern Physics E, 2007, 16, 2289-2294.	1.0	3
89	Rainbow modified-ladder approximation and degenerate pion. Physical Review D, 2021, 103, .	4.7	3
90	On the Chiral Quark Condensate at Finite Chemical Potential. International Journal of Modern Physics A, 2006, 21, 905-909.	1.5	2

#	Article	IF	Citations
91	STABILITY OF VACUUM AND QCD PHASE TRANSITION IN DYSON-SCHWINGER EQUATION APPROACH OF QCD. International Journal of Modern Physics E, 2008, 17, 1965-1978.	1.0	2
92	Extracting a model quark propagatorâ€™s spectral density. Physical Review D, 2021, 103, .	4.7	2
93	REMARK ON THE CONSISTENCY OF THE LADDER APPROXIMATION AND THE RAINBOW APPROXIMATION OF DYSONâ€“SCHWINGER EQUATIONS OF QCD. International Journal of Modern Physics A, 2008, 23, 1711-1717.	1.5	1
94	A perspective on Dyson-Schwinger equation: toy model of Pion. EPJ Web of Conferences, 2016, 113, 05001.	0.3	1
95	Nucleon Viewed as a Borromean Bound-State. Few-Body Systems, 2018, 59, 1.	1.5	1
96	Heavy Quark Mesons: Mass Spectrum and Mass Relations. Few-Body Systems, 2021, 62, 1.	1.5	1
97	Mass dependence of pseudocritical temperature in mean field approximation. Physical Review D, 2021, 104, .	4.7	1
98	Quark Spectral Function above T[sub c]. , 2011, , .		0
99	Unveiling the structure of pseudoscalar mesons. , 2020, , .		0
100	Two photon transition form factors of neutral pseudoscalar mesons. , 2020, , .		0