

Cedric Lorce

List of Publications by Year in descending order

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Version: 2024-02-01

81
papers

2,381
citations

172457

29
h-index

206112

48
g-index

83
all docs

83
docs citations

83
times ranked

1985
citing authors

#	ARTICLE	IF	CITATIONS
1	The angular momentum controversy: What's it all about and does it matter?. Physics Reports, 2014, 541, 163-248.	25.6	266
2	Quark Wigner distributions and orbital angular momentum. Physical Review D, 2011, 84, .	4.7	162
3	Revisiting the mechanical properties of the nucleon. European Physical Journal C, 2019, 79, 1.	3.9	126
4	Quark orbital angular momentum from Wigner distributions and light-cone wave functions. Physical Review D, 2012, 85, .	4.7	110
5	Unified framework for generalized and transverse-momentum dependent parton distributions within a 3Q light-cone picture of the nucleon. Journal of High Energy Physics, 2011, 2011, 1.	4.7	102
6	Structure analysis of the generalized correlator of quark and gluon for a spin-1/2 target. Journal of High Energy Physics, 2013, 2013, 1.	4.7	83
7	On the hadron mass decomposition. European Physical Journal C, 2018, 78, 1.	3.9	76
8	Spatial distribution of angular momentum inside the nucleon. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 776, 38-47.	4.1	63
9	Quark transverse charge densities in the from lattice QCD. Nuclear Physics A, 2009, 825, 115-144.	1.5	59
10	Wilson lines and orbital angular momentum. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 719, 185-190.	4.1	56
11	Universal effective hadron dynamics from superconformal algebra. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 759, 171-177.	4.1	56
12	Origin of model relations among transverse-momentum dependent parton distributions. Physical Review D, 2011, 84, .	4.7	55
13	$\langle \bar{\psi} \gamma_\mu \psi \rangle$ -baryon electromagnetic form factors in lattice QCD. Physical Review D, 2009, 79, .	4.7	50
14	Twist-2 generalized transverse-momentum dependent parton distributions and the spin/orbital structure of the nucleon. Physical Review D, 2014, 90, .	4.7	48
15	Charge Distributions of Moving Nucleons. Physical Review Letters, 2020, 125, 232002.	7.8	47
16	The Gluon Sivers Distribution: Status and Future Prospects. Advances in High Energy Physics, 2015, 2015, 1-10.	1.1	46
17	Geometrical approach to the proton spin decomposition. Physical Review D, 2013, 87, .	4.7	44
18	The energy-momentum tensor of spin-1 hadrons: formalism. European Physical Journal C, 2019, 79, 1.	3.9	43

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19	The pretzelosity TMD and quark orbital angular momentum. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2012, 710, 486-488.	4.1	37
20	The parton orbital angular momentum: Status and prospects. <i>European Physical Journal A</i> , 2016, 52, 1.	2.5	35
21	Covariant multipole expansion of local currents for massive states of any spin. <i>Physical Review D</i> , 2020, 101, .	4.7	35
22	Proper definition and evolution of generalized transverse momentum dependent distributions. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2016, 759, 336-341.	4.1	33
23	Phenomenological assessment of proton mechanical properties from deeply virtual Compton scattering. <i>European Physical Journal C</i> , 2021, 81, 1.	3.9	33
24	Electromagnetic properties for arbitrary spin particles: Natural electromagnetic moments from light-cone arguments. <i>Physical Review D</i> , 2009, 79, .	4.7	32
25	The light-front gauge-invariant energy-momentum tensor. <i>Journal of High Energy Physics</i> , 2015, 2015, 1.	4.7	31
26	Next-to-leading-order QCD corrections to the yields and polarisations of J/ψ and Υ directly produced in association with a Z boson at the LHC. <i>Journal of High Energy Physics</i> , 2013, 2013, 1.	4.7	30
27	Meson/baryon/tetraquark supersymmetry from superconformal algebra and light-front holography. <i>International Journal of Modern Physics A</i> , 2016, 31, 1630029.	1.5	30
28	Energy-momentum tensor in QCD: nucleon mass decomposition and mechanical equilibrium. <i>Journal of High Energy Physics</i> , 2021, 2021, 1.	4.7	30
29	Spin-orbit correlations in the nucleon. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2014, 735, 344-348.	4.1	29
30	The relativistic center of mass in field theory with spin. <i>European Physical Journal C</i> , 2018, 78, 1.	3.9	29
31	A fixed-target programme at the LHC: Physics case and projected performances for heavy-ion, hadron, spin and astroparticle studies. <i>Physics Reports</i> , 2021, 911, 1-83.	25.6	28
32	Unpolarized transverse momentum dependent parton distribution functions beyond leading twist in quark models. <i>Journal of High Energy Physics</i> , 2015, 2015, 1.	4.7	27
33	Feasibility Studies for Single Transverse-Spin Asymmetry Measurements at a Fixed-Target Experiment Using the LHC Proton and Lead Beams (AFTER@LHC). <i>Few-Body Systems</i> , 2017, 58, 1.	1.5	27
34	New explicit expressions for Dirac bilinears. <i>Physical Review D</i> , 2018, 97, .	4.7	26
35	Tensor charges of light baryons in the infinite momentum frame. <i>Physical Review D</i> , 2009, 79, .	4.7	25
36	Reassessing the importance of the colour-singlet contributions to direct χ production at the LHC and the Tevatron. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013, 726, 218-222.	4.1	25

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37	Multipole decomposition of the nucleon transverse phase space. Physical Review D, 2016, 93, .	4.7	25
38	Improvement of the $\hat{\Gamma}$ -width estimation method on the light cone. Physical Review D, 2006, 74, .	4.7	23
39	Comment on "Proton Spin Structure from Measurable Parton Distributions". Physical Review Letters, 2013, 111, 039101.	7.8	23
40	Light-Front Interpretation of Proton Generalized Polarizabilities. Physical Review Letters, 2010, 104, 112001.	7.8	22
41	Transverse pion structure beyond leading twist in constituent models. European Physical Journal C, 2016, 76, 415.	3.9	21
42	Spin physics and TMD studies at A Fixed-Target Experiment at the LHC (AFTER@LHC). EPJ Web of Conferences, 2015, 85, 02038.	0.3	20
43	Baryon vector and axial content up to the $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mn} \rangle 7 \langle \text{mml:mn} \rangle \langle \text{mml:mi} \rangle Q \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle \text{component}$. Physical Review D, 2008, 78, .	4.7	19
44	Gauge-covariant canonical formalism revisited with application to the proton spin decomposition. Physical Review D, 2013, 88, .	4.7	16
45	Twist-3 generalized parton distributions in deeply-virtual Compton scattering. Physical Review D, 2018, 98, .	4.7	16
46	AFTER@LHC: a precision machine to study the interface between particle and nuclear physics. EPJ Web of Conferences, 2014, 66, 11023.	0.3	15
47	Universality of the Poincaré gravitational form factor constraints. European Physical Journal C, 2020, 80, 1.	3.9	15
48	Gauge symmetry and background independence: Should the proton spin decomposition be path independent?. Nuclear Physics A, 2014, 925, 1-13.	1.5	14
49	Poincaré constraints on the gravitational form factors for massive states with arbitrary spin. Physical Review D, 2019, 100, .	4.7	14
50	Relativistic spin sum rules and the role of the pivot. European Physical Journal C, 2021, 81, 1.	3.9	12
51	Spin physics at a fixed-target experiment at the LHC (AFTER@LHC). Physics of Particles and Nuclei, 2014, 45, 336-337.	0.7	11
52	Deuteron relativistic charge distributions. Physical Review D, 2022, 105, .	4.7	11
53	Wigner Distributions in Light-Front Quark Models. Few-Body Systems, 2014, 55, 287-296.	1.5	10
54	Quark transverse spin-orbit correlations. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 774, 435-440.	4.1	7

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55	Studies of Transverse-Momentum-Dependent Distributions with a Fixed-Target Experiment Using the LHC Beams (AFTER@LHC). International Journal of Modern Physics Conference Series, 2016, 40, 1660107.	0.7	6
56	WIGNER DISTRIBUTIONS AND QUARK ORBITAL ANGULAR MOMENTUM. International Journal of Modern Physics Conference Series, 2012, 20, 84-91.	0.7	4
57	THE PROTON SPIN DECOMPOSITION: PATH DEPENDENCE AND GAUGE SYMMETRY. International Journal of Modern Physics Conference Series, 2014, 25, 1460030.	0.7	4
58	Physics perspectives with AFTER@LHC (A Fixed Target Experiment at LHC). EPJ Web of Conferences, 2018, 171, 10001.	0.3	4
59	Glue density fluctuations in dilute hadrons. Physical Review D, 2018, 98, .	4.7	4
60	Spin and diffractive physics with a fixed-target experiment at the LHC (AFTER@LHC). , 2013, , .		3
61	Potential linear and angular momentum in the scalar diquark model. European Physical Journal C, 2021, 81, 1.	3.9	3
62	Quark Spin-Orbit Correlations. International Journal of Modern Physics Conference Series, 2015, 37, 1560036.	0.7	2
63	Physics at a Fixed-Target Experiment Using the LHC Beams. Advances in High Energy Physics, 2015, 2015, 1-2.	1.1	2
64	A fixed-target programme at the LHC for heavy-ion, hadron, spin and astroparticle physics: AFTER@LHC. Nuclear Physics A, 2019, 982, 971-974.	1.5	2
65	Analytic constraints on the energy-momentum tensor in conformal field theories. Physical Review D, 2020, 102, .	4.7	2
66	Generalized TMDs. International Journal of Modern Physics Conference Series, 2015, 37, 1560037.	0.7	1
67	Spin/Orbital Structure of the Nucleon from Wigner Distributions. International Journal of Modern Physics Conference Series, 2016, 40, 1660013.	0.7	1
68	Energy, angular momentum and pressure force distributions inside nucleons. Journal of Physics: Conference Series, 2020, 1643, 012190.	0.4	1
69	The Origin of the Nucleon Mass. Springer Proceedings in Physics, 2020, , 635-641.	0.2	1
70	Baryon Shape. AIP Conference Proceedings, 2008, , .	0.4	0
71	Light-front transverse charge densities. Journal of Physics: Conference Series, 2011, 295, 012050.	0.4	0
72	Transverse-Momentum Distributions and Spherical Symmetry. Few-Body Systems, 2012, 53, 117-124.	1.5	0

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73	Accessing the quark orbital angular momentum with Wigner distributions. , 2013, , .		0
74	The nucleon spin decomposition: News and experimental implications. EPJ Web of Conferences, 2014, 73, 02005.	0.3	0
75	Phase-space distributions and orbital angular momentum. EPJ Web of Conferences, 2014, 73, 02013.	0.3	0
76	Spin Structure of the Nucleon on the Light Front. Few-Body Systems, 2015, 56, 243-248.	1.5	0
77	The multidimensional nucleon structure. EPJ Web of Conferences, 2016, 129, 00044.	0.3	0
78	The gauge-invariant canonical energy-momentum tensor. EPJ Web of Conferences, 2016, 112, 01013.	0.3	0
79	Quark and Gluon Orbital Angular Momentum: Where Are We?. Few-Body Systems, 2016, 57, 379-384.	1.5	0
80	Exploring the Proton Spin Structure. Springer Proceedings in Physics, 2016, , 105-113.	0.2	0
81	Title is missing!. , 2017, , .		0