

# 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	Deuteron relativistic charge distributions. <i>Physical Review D</i> , 2022, 105, .	4.7	11
2	Phenomenological assessment of proton mechanical properties from deeply virtual Compton scattering. <i>European Physical Journal C</i> , 2021, 81, 1.	3.9	33
3	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
4	Relativistic spin sum rules and the role of the pivot. <i>European Physical Journal C</i> , 2021, 81, 1.	3.9	12
5	Potential linear and angular momentum in the scalar diquark model. <i>European Physical Journal C</i> , 2021, 81, 1.	3.9	3
6	Energy-momentum tensor in QCD: nucleon mass decomposition and mechanical equilibrium. <i>Journal of High Energy Physics</i> , 2021, 2021, 1.	4.7	30
7	Covariant multipole expansion of local currents for massive states of any spin. <i>Physical Review D</i> , 2020, 101, .	4.7	35
8	Analytic constraints on the energy-momentum tensor in conformal field theories. <i>Physical Review D</i> , 2020, 102, .	4.7	2
9	Charge Distributions of Moving Nucleons. <i>Physical Review Letters</i> , 2020, 125, 232002.	7.8	47
10	Universality of the Poincaré gravitational form factor constraints. <i>European Physical Journal C</i> , 2020, 80, 1.	3.9	15
11	Energy, angular momentum and pressure force distributions inside nucleons. <i>Journal of Physics: Conference Series</i> , 2020, 1643, 012190.	0.4	1
12	The Origin of the Nucleon Mass. <i>Springer Proceedings in Physics</i> , 2020, , 635-641.	0.2	1
13	Poincaré constraints on the gravitational form factors for massive states with arbitrary spin. <i>Physical Review D</i> , 2019, 100, .	4.7	14
14	A fixed-target programme at the LHC for heavy-ion, hadron, spin and astroparticle physics: AFTER@LHC. <i>Nuclear Physics A</i> , 2019, 982, 971-974.	1.5	2
15	The energy-momentum tensor of spin-1 hadrons: formalism. <i>European Physical Journal C</i> , 2019, 79, 1.	3.9	43
16	Revisiting the mechanical properties of the nucleon. <i>European Physical Journal C</i> , 2019, 79, 1.	3.9	126
17	Physics perspectives with AFTER@LHC (A Fixed Target Experiment at LHC). <i>EPJ Web of Conferences</i> , 2018, 171, 10001.	0.3	4
18	New explicit expressions for Dirac bilinears. <i>Physical Review D</i> , 2018, 97, .	4.7	26

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19	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
20	Gluon density fluctuations in dilute hadrons. Physical Review D, 2018, 98, .	4.7	4
21	The relativistic center of mass in field theory with spin. European Physical Journal C, 2018, 78, 1.	3.9	29
22	Twist-3 generalized parton distributions in deeply-virtual Compton scattering. Physical Review D, 2018, 98, .	4.7	16
23	On the hadron mass decomposition. European Physical Journal C, 2018, 78, 1.	3.9	76
24	Quark transverse spin-orbit correlations. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 774, 435-440.	4.1	7
25	Feasibility Studies for Single Transverse-Spin Asymmetry Measurements at a Fixed-Target Experiment Using the LHC Proton and Lead Beams (AFTER@LHC). Few-Body Systems, 2017, 58, 1.	1.5	27
26	Title is missing!. , 2017, , .		0
27	The multidimensional nucleon structure. EPJ Web of Conferences, 2016, 129, 00044.	0.3	0
28	The gauge-invariant canonical energy-momentum tensor. EPJ Web of Conferences, 2016, 112, 01013.	0.3	0
29	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
30	Quark and Gluon Orbital Angular Momentum: Where Are We?. Few-Body Systems, 2016, 57, 379-384.	1.5	0
31	Meson/baryon/tetraquark supersymmetry from superconformal algebra and light-front holography. International Journal of Modern Physics A, 2016, 31, 1630029.	1.5	30
32	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
33	The parton orbital angular momentum: Status and prospects. European Physical Journal A, 2016, 52, 1.	2.5	35
34	Multipole decomposition of the nucleon transverse phase space. Physical Review D, 2016, 93, .	4.7	25
35	Proper definition and evolution of generalized transverse momentum dependent distributions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 759, 336-341.	4.1	33
36	Transverse pion structure beyond leading twist in constituent models. European Physical Journal C, 2016, 76, 415.	3.9	21

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37	Spin/Orbital Structure of the Nucleon from Wigner Distributions. International Journal of Modern Physics Conference Series, 2016, 40, 1660013.	0.7	1
38	Exploring the Proton Spin Structure. Springer Proceedings in Physics, 2016, , 105-113.	0.2	0
39	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
40	The light-front gauge-invariant energy-momentum tensor. Journal of High Energy Physics, 2015, 2015, 1.	4.7	31
41	Generalized TMDs. International Journal of Modern Physics Conference Series, 2015, 37, 1560037.	0.7	1
42	Quark Spin-Orbit Correlations. International Journal of Modern Physics Conference Series, 2015, 37, 1560036.	0.7	2
43	Physics at a Fixed-Target Experiment Using the LHC Beams. Advances in High Energy Physics, 2015, 2015, 1-2.	1.1	2
44	The Gluon Sivers Distribution: Status and Future Prospects. Advances in High Energy Physics, 2015, 2015, 1-10.	1.1	46
45	Spin Structure of the Nucleon on the Light Front. Few-Body Systems, 2015, 56, 243-248.	1.5	0
46	Unpolarized transverse momentum dependent parton distribution functions beyond leading twist in quark models. Journal of High Energy Physics, 2015, 2015, 1.	4.7	27
47	The nucleon spin decomposition: News and experimental implications. EPJ Web of Conferences, 2014, 73, 02005.	0.3	0
48	Phase-space distributions and orbital angular momentum. EPJ Web of Conferences, 2014, 73, 02013.	0.3	0
49	AFTER@LHC: a precision machine to study the interface between particle and nuclear physics. EPJ Web of Conferences, 2014, 66, 11023.	0.3	15
50	Spin-orbit correlations in the nucleon. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 735, 344-348.	4.1	29
51	Gauge symmetry and background independence: Should the proton spin decomposition be path independent?. Nuclear Physics A, 2014, 925, 1-13.	1.5	14
52	Spin physics at a fixed-target experiment at the LHC (AFTER@LHC). Physics of Particles and Nuclei, 2014, 45, 336-337.	0.7	11
53	Wigner Distributions in Light-Front Quark Models. Few-Body Systems, 2014, 55, 287-296.	1.5	10
54	The angular momentum controversy: What's it all about and does it matter?. Physics Reports, 2014, 541, 163-248.	25.6	266

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55	THE PROTON SPIN DECOMPOSITION: PATH DEPENDENCE AND GAUGE SYMMETRY. International Journal of Modern Physics Conference Series, 2014, 25, 1460030.	0.7	4
56	Twist-2 generalized transverse-momentum dependent parton distributions and the spin/orbital structure of the nucleon. Physical Review D, 2014, 90, .	4.7	48
57	Next-to-leading-order QCD corrections to the yields and polarisations of $J/\psi$ and $\Upsilon$ directly produced in association with a Z boson at the LHC. Journal of High Energy Physics, 2013, 2013, 1.	4.7	30
58	Reassessing the importance of the colour-singlet contributions to direct $\Upsilon$ production at the LHC and the Tevatron. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 726, 218-222.	4.1	25
59	Wilson lines and orbital angular momentum. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 719, 185-190.	4.1	56
60	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
61	Spin and diffractive physics with a fixed-target experiment at the LHC (AFTER@LHC). , 2013, , .		3
62	Accessing the quark orbital angular momentum with Wigner distributions. , 2013, , .		0
63	Gauge-covariant canonical formalism revisited with application to the proton spin decomposition. Physical Review D, 2013, 88, .	4.7	16
64	Geometrical approach to the proton spin decomposition. Physical Review D, 2013, 87, .	4.7	44
65	Comment on "Proton Spin Structure from Measurable Parton Distributions". Physical Review Letters, 2013, 111, 039101.	7.8	23
66	WIGNER DISTRIBUTIONS AND QUARK ORBITAL ANGULAR MOMENTUM. International Journal of Modern Physics Conference Series, 2012, 20, 84-91.	0.7	4
67	Quark orbital angular momentum from Wigner distributions and light-cone wave functions. Physical Review D, 2012, 85, .	4.7	110
68	Transverse-Momentum Distributions and Spherical Symmetry. Few-Body Systems, 2012, 53, 117-124.	1.5	0
69	The pretzelosity TMD and quark orbital angular momentum. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 710, 486-488.	4.1	37
70	Origin of model relations among transverse-momentum dependent parton distributions. Physical Review D, 2011, 84, .	4.7	55
71	Light-front transverse charge densities. Journal of Physics: Conference Series, 2011, 295, 012050.	0.4	0
72	Quark Wigner distributions and orbital angular momentum. Physical Review D, 2011, 84, .	4.7	162

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73	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
74	Light-Front Interpretation of Proton Generalized Polarizabilities. Physical Review Letters, 2010, 104, 112001.	7.8	22
75	Quark transverse charge densities in the from lattice QCD. Nuclear Physics A, 2009, 825, 115-144.	1.5	59
76	Tensor charges of light baryons in the infinite momentum frame. Physical Review D, 2009, 79, .	4.7	25
77	Electromagnetic properties for arbitrary spin particles: Natural electromagnetic moments from light-cone arguments. Physical Review D, 2009, 79, .	4.7	32
78	$\hat{\Gamma}$ -baryon electromagnetic form factors in lattice QCD. Physical Review D, 2009, 79, .	4.7	50
79	Baryon Shape. AIP Conference Proceedings, 2008, , .	0.4	0
80	Baryon vector and axial content up to the $Q^7$ component. Physical Review D, 2008, 78, .	4.7	19
81	Improvement of the $\hat{\Gamma}$ -width estimation method on the light cone. Physical Review D, 2006, 74, .	4.7	23