

Claudio CorianÃ²

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7410363/publications.pdf>

Version: 2024-02-01

119
papers

1,727
citations

236925

25
h-index

361022

35
g-index

119
all docs

119
docs citations

119
times ranked

922
citing authors

#	ARTICLE	IF	CITATIONS
1	On the effective theory of low-scale orientifold string vacua. Nuclear Physics B, 2006, 746, 77-135.	2.5	93
2	Solving the conformal constraints for scalar operators in momentum space and the evaluation of Feynman's master integrals. Journal of High Energy Physics, 2013, 2013, 1.	4.7	79
3	Stable superstring relics. Nuclear Physics B, 1996, 477, 65-104.	2.5	70
4	Stable superstring relics and ultrahigh energy cosmic rays. Nuclear Physics B, 2001, 614, 233-253.	2.5	55
5	Stückelberg axions and the effective action of anomalous abelian models 1. A unitarity analysis of the Higgs-axion mixing. Journal of High Energy Physics, 2007, 2007, 008-008.	4.7	45
6	NNLO logarithmic expansions and exact solutions of the DGLAP equations from x-space: New algorithms for precision studies at the LHC. Nuclear Physics B, 2006, 748, 253-308.	2.5	43
7	Z ² , Higgses and heavy neutrinos in U(1) ² models: from the LHC to the GUT scale. Journal of High Energy Physics, 2016, 2016, 1.	4.7	43
8	Stückelberg axions and the effective action of anomalous Abelian models. A model and its signature at the LHC. Nuclear Physics B, 2008, 789, 133-174.	2.5	41
9	Constraints on abelian extensions of the Standard Model from two-loop vacuum stability and U(1) B-L. Journal of High Energy Physics, 2016, 2016, 1.	4.7	37
10	Vacuum stability in right handed neutrinos. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 738, 13-19.	4.1	36
11	Exact correlators from conformal Ward identities in momentum space and the perturbative TJJ vertex. Nuclear Physics B, 2019, 938, 440-522.	2.5	36
12	Windows over a new low energy axion. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2007, 651, 298-305.	4.1	35
13	Conformal anomalies and the gravitational effective action: The correlator for a Dirac fermion. Physical Review D, 2010, 81, .	4.7	34
14	On some hypergeometric solutions of the conformal Ward identities of scalar 4-point functions in momentum space. Journal of High Energy Physics, 2019, 2019, 1.	4.7	32
15	TTT in CFT: Trace identities and the conformal anomaly effective action. Nuclear Physics B, 2019, 942, 303-328.	2.5	31
16	A novel string-derived Z ^{prime} with stable proton, light neutrinos and R-parity violation. European Physical Journal C, 2008, 53, 421-428.	3.9	30
17	Precision studies of the NNLO DGLAP evolution at the LHC with Candia. Computer Physics Communications, 2008, 179, 665-684.	7.5	29
18	Graviton vertices and the mapping of anomalous correlators to momentum space for a general conformal field theory. Journal of High Energy Physics, 2012, 2012, 1.	4.7	29

#	ARTICLE	IF	CITATIONS
19	Hamiltonian and potentials in derivative pricing models: exact results and lattice simulations. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2004, 334, 531-557.	2.6	27
20	Searching for extra Z from strings and other models at the CERN LHC with leptoproduction. <i>Physical Review D</i> , 2008, 78, .	4.7	27
21	Anomaly poles as common signatures of chiral and conformal anomalies. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2009, 682, 322-327.	4.1	27
22	Higher-order corrections to the equation-of-state of QED at high temperature. <i>Nuclear Physics B</i> , 1995, 434, 56-84.	2.5	26
23	QCD evolution equations: Numerical algorithms from the Laguerre expansion. <i>Computer Physics Communications</i> , 1999, 118, 236-258.	7.5	26
24	String inspired neutrino mass textures in light of KamLAND and WMAP. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2004, 581, 99-110.	4.1	26
25	Cosmic ray signals from mini black holes in models with extra dimensions: an analytical/Monte Carlo study. <i>Journal of High Energy Physics</i> , 2005, 2005, 065-065.	4.7	26
26	The general 3-graviton vertex (TTT) of conformal field theories in momentum space in $d=4$. <i>Nuclear Physics B</i> , 2018, 937, 56-134.	2.5	26
27	Trilinear anomalous gauge interactions from intersecting branes and the neutral currents sector. <i>Journal of High Energy Physics</i> , 2008, 2008, 015-015.	4.7	25
28	An anomalous extra Z prime from intersecting branes with Drell-Yan and direct photons at the LHC. <i>Nuclear Physics B</i> , 2009, 814, 156-179.	2.5	25
29	Three-Loop Equation of State of QED at High Temperature. <i>Physical Review Letters</i> , 1994, 73, 2398-2401.	7.8	24
30	Unitarity bounds for gauged axionic interactions and the Green-Schwarz mechanism. <i>European Physical Journal C</i> , 2008, 55, 629.	3.9	22
31	Anomalous $U(1)$ models in four and five dimensions and their anomaly poles. <i>Journal of High Energy Physics</i> , 2009, 2009, 029-029.	4.7	20
32	Trace anomaly, massless scalars, and the gravitational coupling of QCD. <i>Physical Review D</i> , 2010, 82, .	4.7	20
33	Renormalization, conformal ward identities and the origin of a conformal anomaly pole. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2018, 781, 283-289.	4.1	19
34	Three and four point functions of stress energy tensors in $D=3$ for the analysis of cosmological non-gaussianities. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	4.7	17
35	Exclusive QCD processes, quark-hadron duality, and the transition to perturbative QCD. <i>Journal of High Energy Physics</i> , 1998, 1998, 008-008.	4.7	16
36	Axion and neutralinos from supersymmetric extensions of the Standard Model with anomalous $U(1)$ and High-Energy Physics, 2009, 671, 87-90.	4.1	16

#	ARTICLE	IF	CITATIONS
37	Direct solution of renormalization group equations of QCD in x-space: NLO implementations at leading twist. Computer Physics Communications, 2004, 160, 213-242.	7.5	15
38	Axions and anomaly-mediated interactions: the Green-Schwarz and Wess-Zumino vertices at higher orders and $\langle i \rangle g \langle i \rangle \hat{\alpha}^2$ of the muon. Journal of High Energy Physics, 2008, 2008, 034-034.	4.7	15
39	Gravity and the neutral currents: Effective interactions from the trace anomaly. Physical Review D, 2011, 83, .	4.7	15
40	New dark matter candidates motivated from superstring derived unification. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 397, 76-80.	4.1	14
41	Supersymmetric QCD and high energy cosmic rays: Fragmentation functions of supersymmetric QCD. Physical Review D, 2002, 65, .	4.7	14
42	NNLO logarithmic expansions and precise determinations of the neutral currents near the Z resonance at the LHC: the Drell-Yan case. Journal of High Energy Physics, 2007, 2007, 030-030.	4.7	14
43	Light supersymmetric axion in an anomalous Abelian extension of the standard model. Physical Review D, 2009, 80, .	4.7	14
44	Exploring scalar and vector bileptons at the LHC in a 331 model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 785, 73-83.	4.1	14
45	Four-point functions in momentum space: conformal ward identities in the scalar/tensor case. European Physical Journal C, 2020, 80, 1.	3.9	14
46	QUANTUM MECHANICS, PATH INTEGRALS AND OPTION PRICING: REDUCING THE COMPLEXITY OF FINANCE. , 2003, , .		14
47	QCD sum rule and perturbative QCD approaches to pion Compton scattering. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 309, 409-415.	4.1	13
48	Spin-dependent Drell-Yan in QCD to $O(\hat{1}\pm s^2)$ (I). The non-singlet sector. Nuclear Physics B, 1998, 512, 393-428.	2.5	13
49	The dilaton Wess-Zumino action in six dimensions from Weyl gauging: local anomalies and trace relations. Classical and Quantum Gravity, 2014, 31, 105009.	4.0	13
50	Bilepton signatures at the LHC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 773, 544-552.	4.1	13
51	The electric charge of a Dirac monopole at nonzero temperature. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 363, 71-75.	4.1	12
52	Polarized and unpolarized double prompt photon production in next-to-leading order QCD. Nuclear Physics B, 1996, 469, 202-232.	2.5	12
53	Axions from intersecting branes and decoupled chiral fermions at the Large Hadron Collider. Nuclear Physics B, 2010, 826, 87-147.	2.5	12
54	Leading twist amplitudes for exclusive neutrino interactions in the deeply virtual limit. Physical Review D, 2005, 71, .	4.7	11

#	ARTICLE	IF	CITATIONS
55	Double transverse-spin asymmetries in Drell-Yan processes with antiprotons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2006, 639, 483-487.	4.1	11
56	Deeply Virtual Neutrino Scattering (DVNS). Journal of High Energy Physics, 2005, 2005, 038-038.	4.7	10
57	The conformal anomaly and the neutral currents sector of the Standard Model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 700, 29-38.	4.1	10
58	Higher order dilaton interactions in the nearly conformal limit of the Standard Model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 717, 182-187.	4.1	10
59	General analysis of the charged Higgs sector of the $Y=0$ triplet-extended of the MSSM at the LHC. Physical Review D, 2016, 94, ..	4.7	10
60	QCD sum rules and Compton scattering. Nuclear Physics B, 1993, 405, 481-506.	2.5	9
61	The transition to perturbative QCD in Compton scattering. Nuclear Physics B, 1995, 434, 535-564.	2.5	9
62	Anomalous gravitational TTT vertex, temperature inhomogeneity, and pressure anisotropy. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 802, 135236.	4.1	9
63	Spectrum of the Scale-Invariant Lipatov Kernel. Physical Review Letters, 1995, 74, 4980-4983.	7.8	8
64	Properties of the scale invariant $O(g_4)$ Lipatov kernel. Nuclear Physics B, 1995, 451, 231-264.	2.5	8
65	Drell-Yan non-singlet spin cross sections and spin asymmetry to $O(\hat{1}\pm s^2)$ (II). Nuclear Physics B, 1998, 528, 285-302.	2.5	8
66	Probing the hidden Higgs bosons of the $Y=0$ triplet- and singlet-extended Supersymmetric Standard Model at the LHC. Journal of High Energy Physics, 2015, 2015, 1-29.	4.7	8
67	Conformal field theory in momentum space and anomaly actions in gravity: The analysis of three- and four-point function. Physics Reports, 2022, 952, 1-95.	25.6	8
68	On the use of the time-dependent Rayleigh-Ritz equations for heavy-ion collisions. Nuclear Physics A, 1991, 522, 591-609.	1.5	7
69	Stability analysis of sum rules for pion Compton scattering. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1994, 324, 98-104.	4.1	7
70	Gauge theory high-energy behavior from j-plane unitarity. Nuclear Physics B, 1996, 468, 175-218.	2.5	7
71	Polarized double photon production in QCD to order $\hat{1}\pm s$. Physical Review D, 1996, 54, 781-788.	4.7	7
72	Spin dependent Drell-Yan beyond leading order: Non-singlet corrections to $O(\hat{1}\pm s^2)$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 403, 344-352.	4.1	7

#	ARTICLE	IF	CITATIONS
73	Cosmological properties of a gauged axion. <i>Physical Review D</i> , 2010, 82, .	4.7	7
74	Relic densities of dark matter in the U(1)-extended NMSSM and the gauged axion supermultiplet. <i>Physical Review D</i> , 2012, 85, .	4.7	6
75	Perspectives on a supersymmetric extension of the standard model with a $Y = 0$ Higgs triplet and a singlet at the LHC. <i>Journal of High Energy Physics</i> , 2015, 2015, 1.	4.7	6
76	Two-point function of the energy-momentum tensor and generalised conformal structure. <i>European Physical Journal C</i> , 2021, 81, 1.	3.9	6
77	Power corrections to QCD sum rules for Compton scattering. <i>Nuclear Physics B</i> , 1993, 410, 90-114.	2.5	5
78	Conformal trace relations from the dilaton Wess-Zumino action. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013, 726, 896-905.	4.1	5
79	Superconformal sum rules and the spectral density flow of the composite dilaton (ADD) multiplet in $N = 1$ theories. <i>Journal of High Energy Physics</i> , 2014, 2014, 1.	4.7	5
80	The Generalized Hypergeometric Structure of the Ward Identities of CFTs in Momentum Space in $d > 2$. <i>Axioms</i> , 2020, 9, 54.	1.9	5
81	Rapidity correlations and \hat{p}_T from prompt photon plus jet production in polarized pp collisions. <i>Physical Review D</i> , 1998, 58, .	4.7	4
82	LARGE SCALE AIR SHOWER SIMULATIONS AND THE SEARCH FOR NEW PHYSICS AT AUGER. <i>International Journal of Modern Physics A</i> , 2004, 19, 3729-3760.	1.5	4
83	Neutrino and photon lensing by black holes: radiative lens equations and post-Newtonian contributions. <i>Journal of High Energy Physics</i> , 2015, 2015, 1.	4.7	4
84	The conformal anomaly action to fourth order (4T) in $d=4$ in momentum space. <i>European Physical Journal C</i> , 2021, 81, 1.	3.9	4
85	Dispersive methods and QCD sum rules for \hat{p}_T^3 collisions. <i>Nuclear Physics B</i> , 1995, 434, 565-605.	2.5	3
86	Supersymmetric scaling violations $\hat{\sigma}(l)$. <i>Nuclear Physics B</i> , 2002, 627, 66-94.	2.5	3
87	An x-space analysis of evolution equations: Soffer's inequality and the non-forward evolution. <i>Journal of High Energy Physics</i> , 2003, 2003, 059-059.	4.7	3
88	THE KINETIC INTERPRETATION OF THE DGLAP EQUATION, ITS KRAMERS-MOYAL EXPANSION AND POSITIVITY OF HELICITY DISTRIBUTIONS. <i>International Journal of Modern Physics A</i> , 2005, 20, 4863-4897.	1.5	3
89	On the scale variation of the total cross section for Higgs production at the LHC and at the Tevatron. <i>European Physical Journal C</i> , 2006, 47, 703-721.	3.9	3
90	THE TRACE ANOMALY AND THE GRAVITATIONAL COUPLING OF AN ANOMALOUS U(1). <i>International Journal of Modern Physics A</i> , 2011, 26, 2405-2435.	1.5	3

#	ARTICLE	IF	CITATIONS
91	Mass corrections to flavor-changing fermion-graviton vertices in the standard model. Physical Review D, 2013, 88, .	4.7	3
92	Bounds on the conformal scale of a minimally coupled dilaton and multi-leptonic signatures at the LHC. Journal of High Energy Physics, 2016, 2016, 1.	4.7	3
93	Dark matter as ultralight axion-like particle in E6 ^{U(1)} GUT with QCD axion. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 782, 380-386.	4.1	3
94	Possible bilepton resonances in like-sign pairs. Modern Physics Letters A, 2019, 34, 1950076.	1.2	3
95	Einstein Gauss-Bonnet theories as ordinary, Wess-Zumino conformal anomaly actions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2022, 828, 137020.	4.1	3
96	Scattering in soliton models and boson-exchange descriptions. Physical Review D, 1992, 45, 2542-2547.	4.7	2
97	Scale-invariant O(g ⁴) Lipatov kernels at non-zero momentum transfer. Nuclear Physics B, 1996, 468, 219-240.	2.5	2
98	NLO conformal symmetry in the Regge limit of QCD. Nuclear Physics B, 1997, 493, 397-410.	2.5	2
99	Searching for extra dimensions in high energy cosmic rays. Nuclear Physics, Section B, Proceedings Supplements, 2006, 151, 351-354.	0.4	2
100	The Search for Extra Neutral Currents at the LHC: QCD and Anomalous Gauge Interactions. AIP Conference Proceedings, 2007, , .	0.4	2
101	Comments on anomaly cancellations by pole subtractions and ghost instabilities with gravity. Classical and Quantum Gravity, 2011, 28, 145004.	4.0	2
102	One loop standard model corrections to flavor diagonal fermion-graviton vertices. Physical Review D, 2013, 87, .	4.7	2
103	Stability constraints of the scalar potential in extensions of the Standard Model with TeV scale right handed neutrinos. Nuclear and Particle Physics Proceedings, 2015, 265-266, 311-313.	0.5	2
104	QCD, Supersymmetry and Low Scale Gravity. AIP Conference Proceedings, 2005, , .	0.4	1
105	NNLO Logarithmic Expansions and High Precision Determinations of the QCD background at the LHC: The case of the Z resonance. AIP Conference Proceedings, 2007, , .	0.4	1
106	The Trace Anomaly and the Couplings of QED and QCD to Gravity. , 2010, , .		1
107	Relic Densities of Gauged Axions and Supersymmetry. Nuclear Physics, Section B, Proceedings Supplements, 2011, 217, 75-77.	0.4	1
108	Electroweak corrections to photon scattering, polarization and lensing in a gravitational background and the near horizon limit. Journal of High Energy Physics, 2015, 2015, 1.	4.7	1

#	ARTICLE	IF	CITATIONS
109	Extra Quarks and Bileptons in BSM Physics in a 331 Model. EPJ Web of Conferences, 2018, 192, 00034.	0.3	1
110	Dark Matter With St ^{1/4} ckelberg Axions. Frontiers in Physics, 2019, 7, .	2.1	1
111	Conformal unification in a quiver theory and gravitational waves. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 811, 135909.	4.1	1
112	An axion-like particle from an SO(10) seesaw with U(1). Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 802, 135273.	4.1	1
113	Spin-dependent Drell-Yan and double prompt photon production at NLO in QCD. , 1997, , .		0
114	SUSY scaling violations and UHECR. AIP Conference Proceedings, 2001, , .	0.4	0
115	The effective actions of pseudoscalar and scalar particles in theories with gauge and conformal anomalies. Fortschritte Der Physik, 2010, 58, 708-711.	4.4	0
116	Gauged Axions and their QCD Interactions. , 2010, , .		0
117	Fermion scattering in a gravitational background: electroweak corrections and flavour transitions. Journal of High Energy Physics, 2014, 2014, 1.	4.7	0
118	SU (3) p quiver theories with N=0 for p = 8 and 9. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 769, 322-327.	4.1	0
119	Non-leptonic decays of bileptons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2022, 826, 136904.	4.1	0