

# Claudio CorianÃ²

## List of Publications by Year in descending order

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119  
papers

1,727  
citations

236925

25  
h-index

361022

35  
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119  
all docs

119  
docs citations

119  
times ranked

922  
citing authors

#	ARTICLE	IF	CITATIONS
1	Conformal field theory in momentum space and anomaly actions in gravity: The analysis of three- and four-point function. <i>Physics Reports</i> , 2022, 952, 1-95.	25.6	8
2	Non-leptonic decays of bileptons. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2022, 826, 136904.	4.1	0
3	Einstein Gauss-Bonnet theories as ordinary, Wess-Zumino conformal anomaly actions. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2022, 828, 137020.	4.1	3
4	Two-point function of the energy-momentum tensor and generalised conformal structure. <i>European Physical Journal C</i> , 2021, 81, 1.	3.9	6
5	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
6	Conformal unification in a quiver theory and gravitational waves. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2020, 811, 135909.	4.1	1
7	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
8	An axion-like particle from an $SO(10)$ seesaw with $U(1)$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2020, 802, 135273.	4.1	1
9	Anomalous gravitational TTT vertex, temperature inhomogeneity, and pressure anisotropy. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2020, 802, 135236.	4.1	9
10	Four-point functions in momentum space: conformal ward identities in the scalar/tensor case. <i>European Physical Journal C</i> , 2020, 80, 1.	3.9	14
11	On some hypergeometric solutions of the conformal Ward identities of scalar 4-point functions in momentum space. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	4.7	32
12	Dark Matter With Stückelberg Axions. <i>Frontiers in Physics</i> , 2019, 7, .	2.1	1
13	TTT in CFT: Trace identities and the conformal anomaly effective action. <i>Nuclear Physics B</i> , 2019, 942, 303-328.	2.5	31
14	Possible bilepton resonances in like-sign pairs. <i>Modern Physics Letters A</i> , 2019, 34, 1950076.	1.2	3
15	Exact correlators from conformal Ward identities in momentum space and the perturbative TJJ vertex. <i>Nuclear Physics B</i> , 2019, 938, 440-522.	2.5	36
16	Extra Quarks and Bileptons in BSM Physics in a 331 Model. <i>EPJ Web of Conferences</i> , 2018, 192, 00034.	0.3	1
17	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
18	Dark matter as ultralight axion-like particle in $E_6-U(1)$ GUT with QCD axion. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2018, 782, 380-386.	4.1	3

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19	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
20	Renormalization, conformal ward identities and the origin of a conformal anomaly pole. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 781, 283-289.	4.1	19
21	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
22	Bilepton signatures at the LHC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 773, 544-552.	4.1	13
23	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
24	General analysis of the charged Higgs sector of the $U(1)$ extension of the MSSM at the LHC. Physical Review D, 2016, 94, .	4.7	10
25	$Z \rightarrow \mu\mu$ , Higgses and heavy neutrinos in $U(1)$ models: from the LHC to the GUT scale. Journal of High Energy Physics, 2016, 2016, 1.	4.7	43
26	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
27	Neutrino and photon lensing by black holes: radiative lens equations and post-Newtonian contributions. Journal of High Energy Physics, 2015, 2015, 1.	4.7	4
28	Perspectives on a supersymmetric extension of the standard model with a $Y = 0$ Higgs triplet and a singlet at the LHC. Journal of High Energy Physics, 2015, 2015, 1.	4.7	6
29	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
30	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
31	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
32	Vacuum stability in $U(1)$ extension of the Standard Model with right handed neutrinos. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 738, 13-19.	4.1	36
33	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
34	Fermion scattering in a gravitational background: electroweak corrections and flavour transitions. Journal of High Energy Physics, 2014, 2014, 1.	4.7	0
35	Superconformal sum rules and the spectral density flow of the composite dilaton (ADD) multiplet in $N = 1$ theories. Journal of High Energy Physics, 2014, 2014, 1.	4.7	5
36	Solving the conformal constraints for scalar operators in momentum space and the evaluation of Feynman master integrals. Journal of High Energy Physics, 2013, 2013, 1.	4.7	79

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37	Conformal trace relations from the dilaton Wess-Zumino action. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 726, 896-905.	4.1	5
38	One loop standard model corrections to flavor diagonal fermion-graviton vertices. Physical Review D, 2013, 87, .	4.7	2
39	Mass corrections to flavor-changing fermion-graviton vertices in the standard model. Physical Review D, 2013, 88, .	4.7	3
40	Relic densities of dark matter in the U(1)-extended NMSSM and the gauged axion supermultiplet. Physical Review D, 2012, 85, .	4.7	6
41	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
42	Three and four point functions of stress energy tensors in $D=3$ for the analysis of cosmological non-gaussianities. Journal of High Energy Physics, 2012, 2012, 1.	4.7	17
43	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
44	Relic Densities of Gauged Axions and Supersymmetry. Nuclear Physics, Section B, Proceedings Supplements, 2011, 217, 75-77.	0.4	1
45	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
46	Comments on anomaly cancellations by pole subtractions and ghost instabilities with gravity. Classical and Quantum Gravity, 2011, 28, 145004.	4.0	2
47	Gravity and the neutral currents: Effective interactions from the trace anomaly. Physical Review D, 2011, 83, .	4.7	15
48	THE TRACE ANOMALY AND THE GRAVITATIONAL COUPLING OF AN ANOMALOUS U(1). International Journal of Modern Physics A, 2011, 26, 2405-2435.	1.5	3
49	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
50	Conformal anomalies and the gravitational effective action: The $\langle T_{\mu\nu} \rangle$ correlator for a Dirac fermion. Physical Review D, 2010, 81, .	4.7	34
51	Gauged Axions and their QCD Interactions. , 2010, , .		0
52	The Trace Anomaly and the Couplings of QED and QCD to Gravity. , 2010, , .		1
53	Cosmological properties of a gauged axion. Physical Review D, 2010, 82, .	4.7	7
54	Trace anomaly, massless scalars, and the gravitational coupling of QCD. Physical Review D, 2010, 82, .	4.7	20

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55	Axions from intersecting branes and decoupled chiral fermions at the Large Hadron Collider. Nuclear Physics B, 2010, 826, 87-147.	2.5	12
56	Anomalous U(1) models in four and five dimensions and their anomaly poles. Journal of High Energy Physics, 2009, 2009, 029-029.	4.7	20
57	Axion and neutralinos from supersymmetric extensions of the Standard Model with anomalous <math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><math>U</math></math><math>T_j</math> ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 652 Td (stretchy="false"> and High-Energy Physics, 2009, 671, 87-90.	4.1	16
58	Anomaly poles as common signatures of chiral and conformal anomalies. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 682, 322-327.	4.1	27
59	An anomalous extra Z prime from intersecting branes with Drell-Yan and direct photons at the LHC. Nuclear Physics B, 2009, 814, 156-179.	2.5	25
60	Light supersymmetric axion in an anomalous Abelian extension of the standard model. Physical Review D, 2009, 80, .	4.7	14
61	Precision studies of the NNLO DGLAP evolution at the LHC with Candia. Computer Physics Communications, 2008, 179, 665-684.	7.5	29
62	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
63	Unitarity bounds for gauged axionic interactions and the Green-Schwarz mechanism. European Physical Journal C, 2008, 55, 629.	3.9	22
64	Stueckelberg 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
65	Searching for extra $Z$ from strings and other models at the CERN LHC with leptoproduction. Physical Review D, 2008, 78, .	4.7	27
66	Trilinear anomalous gauge interactions from intersecting branes and the neutral currents sector. Journal of High Energy Physics, 2008, 2008, 015-015.	4.7	25
67	Axions and anomaly-mediated interactions: the Green-Schwarz and Wess-Zumino vertices at higher orders and $\langle i \rangle g \langle i \rangle^2$ of the muon. Journal of High Energy Physics, 2008, 2008, 034-034.	4.7	15
68	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
69	The Search for Extra Neutral Currents at the LHC: QCD and Anomalous Gauge Interactions. AIP Conference Proceedings, 2007, , .	0.4	2
70	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
71	Stueckelberg 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
72	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

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73	On the scale variation of the total cross section for Higgs production at the LHC and at the Tevatron. European Physical Journal C, 2006, 47, 703-721.	3.9	3
74	On the effective theory of low-scale orientifold string vacua. Nuclear Physics B, 2006, 746, 77-135.	2.5	93
75	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
76	Searching for extra dimensions in high energy cosmic rays. Nuclear Physics, Section B, Proceedings Supplements, 2006, 151, 351-354.	0.4	2
77	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
78	QCD, Supersymmetry and Low Scale Gravity. AIP Conference Proceedings, 2005, , .	0.4	1
79	Deeply Virtual Neutrino Scattering (DVNS). Journal of High Energy Physics, 2005, 2005, 038-038.	4.7	10
80	Cosmic ray signals from mini black holes in models with extra dimensions: an analytical/Monte Carlo study. Journal of High Energy Physics, 2005, 2005, 065-065.	4.7	26
81	Leading twist amplitudes for exclusive neutrino interactions in the deeply virtual limit. Physical Review D, 2005, 71, .	4.7	11
82	THE KINETIC INTERPRETATION OF THE DGLAP EQUATION, ITS KRAMERS-MOYAL EXPANSION AND POSITIVITY OF HELICITY DISTRIBUTIONS. International Journal of Modern Physics A, 2005, 20, 4863-4897.	1.5	3
83	LARGE SCALE AIR SHOWER SIMULATIONS AND THE SEARCH FOR NEW PHYSICS AT AUGER. International Journal of Modern Physics A, 2004, 19, 3729-3760.	1.5	4
84	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
85	String inspired neutrino mass textures in light of KamLAND and WMAP. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 581, 99-110.	4.1	26
86	Hamiltonian and potentials in derivative pricing models: exact results and lattice simulations. Physica A: Statistical Mechanics and Its Applications, 2004, 334, 531-557.	2.6	27
87	An x-space analysis of evolution equations: Soffer's inequality and the non-forward evolution. Journal of High Energy Physics, 2003, 2003, 059-059.	4.7	3
88	QUANTUM MECHANICS, PATH INTEGRALS AND OPTION PRICING: REDUCING THE COMPLEXITY OF FINANCE. , 2003, , .		14
89	Supersymmetric QCD and high energy cosmic rays: Fragmentation functions of supersymmetric QCD. Physical Review D, 2002, 65, .	4.7	14
90	Supersymmetric scaling violations $\hat{\Lambda}(l)$ . Nuclear Physics B, 2002, 627, 66-94.	2.5	3

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91	Stable superstring relics and ultrahigh energy cosmic rays. Nuclear Physics B, 2001, 614, 233-253.	2.5	55
92	SUSY scaling violations and UHECR. AIP Conference Proceedings, 2001, , .	0.4	0
93	QCD evolution equations: Numerical algorithms from the Laguerre expansion. Computer Physics Communications, 1999, 118, 236-258.	7.5	26
94	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
95	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
96	Exclusive QCD processes, quark-hadron duality, and the transition to perturbative QCD. Journal of High Energy Physics, 1998, 1998, 008-008.	4.7	16
97	Rapidity correlations and $\hat{1}^n$ G from prompt photon plus jet production in polarized pp collisions. Physical Review D, 1998, 58, .	4.7	4
98	Spin-dependent Drell-Yan and double prompt photon production at NLO in QCD. , 1997, , .		0
99	NLO conformal symmetry in the Regge limit of QCD. Nuclear Physics B, 1997, 493, 397-410.	2.5	2
100	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
101	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
102	Gauge theory high-energy behavior from j-plane unitarity. Nuclear Physics B, 1996, 468, 175-218.	2.5	7
103	Scale-invariant $O(g^4)$ Lipatov kernels at non-zero momentum transfer. Nuclear Physics B, 1996, 468, 219-240.	2.5	2
104	Polarized and unpolarized double prompt photon production in next-to-leading order QCD. Nuclear Physics B, 1996, 469, 202-232.	2.5	12
105	Stable superstring relics. Nuclear Physics B, 1996, 477, 65-104.	2.5	70
106	Polarized double photon production in QCD to order $\hat{1}\pm s$ . Physical Review D, 1996, 54, 781-788.	4.7	7
107	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
108	Spectrum of the $O(g^4)$ Scale-Invariant Lipatov Kernel. Physical Review Letters, 1995, 74, 4980-4983.	7.8	8

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109	Higher-order corrections to the equation-of-state of QED at high temperature. Nuclear Physics B, 1995, 434, 56-84.	2.5	26
110	Dispersive methods and QCD sum rules for $\hat{1}^3 \hat{1}^3$ collisions. Nuclear Physics B, 1995, 434, 565-605.	2.5	3
111	The transition to perturbative QCD in Compton scattering. Nuclear Physics B, 1995, 434, 535-564.	2.5	9
112	Properties of the scale invariant $O(g^4)$ Lipatov kernel. Nuclear Physics B, 1995, 451, 231-264.	2.5	8
113	Three-Loop Equation of State of QED at High Temperature. Physical Review Letters, 1994, 73, 2398-2401.	7.8	24
114	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
115	QCD sum rules and Compton scattering. Nuclear Physics B, 1993, 405, 481-506.	2.5	9
116	Power corrections to QCD sum rules for Compton scattering. Nuclear Physics B, 1993, 410, 90-114.	2.5	5
117	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
118	Scattering in soliton models and boson-exchange descriptions. Physical Review D, 1992, 45, 2542-2547.	4.7	2
119	On the use of the time-dependent Rayleigh-Ritz equations for heavy-ion collisions. Nuclear Physics A, 1991, 522, 591-609.	1.5	7