Luigi Delle Rose

List of Publications by Year
in descending order

65 papers	2,343 citations	279798 23 h-index	206112 48 g-index
65 all docs	65 docs citations	65 times ranked	1956 citing authors

#	Article	IF	Citations
1	FCC-ee: The Lepton Collider. European Physical Journal: Special Topics, 2019, 228, 261-623.	2.6	424
2	FCC-hh: The Hadron Collider. European Physical Journal: Special Topics, 2019, 228, 755-1107.	2.6	367
3	Long-lived particles at the energy frontier: the MATHUSLA physics case. Reports on Progress in Physics, 2019, 82, 116201.	20.1	220
4	Searching for long-lived particles beyond the Standard Model at the Large Hadron Collider. Journal of Physics G: Nuclear and Particle Physics, 2020, 47, 090501.	3.6	133
5	HE-LHC: The High-Energy Large Hadron Collider. European Physical Journal: Special Topics, 2019, 228, 1109-1382.	2.6	108
6	The Large Hadronâ€“Electron Collider at the HL-LHC. Journal of Physics G: Nuclear and Particle Physics, 2021, 48, 110501.	3.6	89
7	Solving the conformal constraints for scalar operators in momentum space and the evaluation of Feynmanâ€™s master integrals. Journal of High Energy Physics, 2013, 2013, 1.	4.7	79
8	Gravitational waves from supercool axions. Journal of High Energy Physics, 2020, 2020, 1.	4.7	54
9	Novel SM-like Higgs decay into displaced heavy neutrino pairs in U(1)â€² models. Journal of High Energy Physics, 2017, 2017, 1.	4.7	49
10	From Planck Data to Planck Era: Observational Tests of Holographic Cosmology. Physical Review Letters, 2017, 118, 041301.	7.8	44
11	Z â€², Higgses and heavy neutrinos in U(1)â€² models: from the LHC to the GUT scale. Journal of High Energy Physics, 2016, 2016, 1.	4.7	43
12	Extra Higgs boson and Zâ€² as portals to signatures of heavy neutrinos at the LHC. Journal of High Energy Physics, 2018, 2018, 1.	4.7	41
13	Constraints on abelian extensions of the Standard Model from two-loop vacuum stability and U(1) Bâˆ’L. Journal of High Energy Physics, 2016, 2016, 1.	4.7	37
14	Explanation of the 17ÂMeV Atomki anomaly in a <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>U</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mn>1</mml:mn><mml:msup><mml:mo) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 504.17 Td (stretchy="fa Vacuum stability in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:mi>U</mml:mi><mml:mo doublet model. Physical Review D, 2017, 96, .	4.7	37
15	stretchy="false">(</mml:mo><mml:mn>1</mml:mn><mml:mo) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 182 Td (stretchy="false"> right handed neutrinos. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy	4.1	36
16	Conformal anomalies and the gravitational effective action: The<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>T</mml:mi><mml:mi>J</mml:mi><mml:mi>J</mml:mi></mml:math>correlator for a Dirac fermion. Physical Review D, 2010, 81, .	4.7	34
17	Explaining electron and muon gâ€ˆâˆ’â€ˆ2 anomalies in an Aligned 2-Higgs Doublet Model with right-handed neutrinos. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 816, 136216.	4.1	32
18	On the fate of the Standard Model at finite temperature. Journal of High Energy Physics, 2016, 2016, 1.	4.7	30

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19	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
20	Composite dynamics in the early Universe. Journal of High Energy Physics, 2019, 2019, 1.	4.7	29
21	Naturalness and dark matter in the supersymmetric <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>B</mml:mi><mml:mo>â^’</mml:mo><mml:mi>L</mml:mi></mml:math> extension of the standard model. Physical Review D, 2017, 96, .	4.7	28
22	Atomki Anomaly in Family-Dependent <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>U</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mn>1</mml:mn><mml:msup><mml:mo) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 504.17 Td (stretchy="fa Model. Physical Review D, 2019, 99, .	4.7	28
23	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
24	Sneutrino Dark Matter in the BLSSM. Journal of High Energy Physics, 2018, 2018, 1.	4.7	22
25	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
26	Trace anomaly, massless scalars, and the gravitational coupling of QCD. Physical Review D, 2010, 82, .	4.7	20
27	New Physics Suggested by Atomki Anomaly. Frontiers in Physics, 2019, 7, .	2.1	20
28	Bubble wall dynamics at the electroweak phase transition. Journal of High Energy Physics, 2022, 2022, 1.	4.7	20
29	Three and four point functions of stress energy tensors in Dâ€‰=â€‰3 for the analysis of cosmological non-gaussianities. Journal of High Energy Physics, 2012, 2012, 1.	4.7	17
30	Dilaton interactions and the anomalous breaking of scale invariance of the Standard Model. Journal of High Energy Physics, 2013, 2013, 1.	4.7	17
31	Gravity and the neutral currents: Effective interactions from the trace anomaly. Physical Review D, 2011, 83, .	4.7	15
32	On the stability of the electroweak vacuum in the presence of low-scale seesaw models. Journal of High Energy Physics, 2015, 2015, 1-32.	4.7	15
33	Collider bounds on 2-Higgs doublet models with U(1) gauge symmetries. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 793, 150-160.	4.1	14
34	The dilaton Wessâ€“Zumino action in six dimensions from Weyl gauging: local anomalies and trace relations. Classical and Quantum Gravity, 2014, 31, 105009.	4.0	13
35	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>R</mml:mi><mml:mi>K</mml:mi></mml:msub></mml:math> and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>R</mml:mi><mml:msup><mml:mi>K</mml:mi><mml:mo>*</mml:mo></mml:msup></mml:mu in an aligned 2HDM with right-handed neutrinos. Physical Review D, 2020, 101, .	4.7	13
36	Impact of loop-induced processes on the boosted dark matter interpretation of the XENON1T excess. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 031-031.	5.4	13

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37	Simplified leptoquark models for precision <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>l</mml:mi></mml:mrow><mml:mrow><mml:mi>j</mml:mi></mml:mrow></mml:msub><mml:mo stretchy="false">â†’</mml:mo><mml:msub><mml:mrow><mml:mi>l</mml:mi></mml:mrow><mml:mrow><mml:mi>f</mml:mi></mml:mrow></mml:msub></mml:mrow></mml:math> experiments: Two-loop structure of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">. Physical Review D, 2020, 102, .	4.7	13
38	A concrete composite 2-Higgs doublet model. Journal of High Energy Physics, 2018, 2018, 1.	4.7	11
39	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
40	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
41	LHC di-photon excess and gauge coupling unification in extra $$Z^prime $$ Z â€² heterotic-string derived models. European Physical Journal C, 2016, 76, 1.	3.9	9
42	Supersymmetry versus Compositeness: 2HDMs tell the story. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 786, 189-194.	4.1	9
43	Wilsonian dark matter in string derived Zâ€² model. Physical Review D, 2017, 96, .	4.7	8
44	Prospects for heavy scalar searches at the LHeC. International Journal of Modern Physics A, 2019, 34, 1950127.	1.5	7
45	Two-point function of the energy-momentum tensor and generalised conformal structure. European Physical Journal C, 2021, 81, 1.	3.9	6
46	Conformal trace relations from the dilaton Wessâ€“Zumino action. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 726, 896-905.	4.1	5
47	Superconformal sum rules and the spectral density flow of the composite dilaton (ADD) multiplet in N $$ mathcal{N} $$ =1 theories. Journal of High Energy Physics, 2014, 2014, 1.	4.7	5
48	Phenomenology of minimalZâ€™ models: from the LHC to the GUT scale. EPJ Web of Conferences, 2016, 129, 00006.	0.3	5
49	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
50	Precision from the diphoton Zh channel at FCC-hh. Journal of High Energy Physics, 2021, 2021, 1.	4.7	4
51	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
52	Mass corrections to flavor-changing fermion-graviton vertices in the standard model. Physical Review D, 2013, 88, .	4.7	3
53	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
54	Comments on anomaly cancellations by pole subtractions and ghost instabilities with gravity. Classical and Quantum Gravity, 2011, 28, 145004.	4.0	2

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55	One loop standard model corrections to flavor diagonal fermion-graviton vertices. Physical Review D, 2013, 87, .	4.7	2
56	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
57	Search forZâ€², vacuum (in)stability and hints of high-energy structures. EPJ Web of Conferences, 2016, 129, 00007.	0.3	2
58	The Trace Anomaly and the Couplings of QED and QCD to Gravity. , 2010, , .		1
59	Dilaton interactions in QCD and in the electroweak sector of the standard model. , 2012, , .		1
60	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
61	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
62	Massless scalar degrees of freedom in QCD and in the electroweak sector from the trace anomaly. , 2012, , .		0
63	Sum rules and spectral density flow in QCD and in superconformal theories. EPJ Web of Conferences, 2014, 80, 00017.	0.3	0
64	Fermion scattering in a gravitational background: electroweak corrections and flavour transitions. Journal of High Energy Physics, 2014, 2014, 1.	4.7	0
65	Conformal anomaly actions for dilaton interactions. EPJ Web of Conferences, 2014, 80, 00015.	0.3	0