

Mikael Chala

List of Publications by Year in descending order

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59
papers

3,259
citations

172457
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59
all docs

59
docs citations

59
times ranked

5440
citing authors

#	ARTICLE	IF	CITATIONS
1	FCC-ee: The Lepton Collider. European Physical Journal: Special Topics, 2019, 228, 261-623.	2.6	424
2	Detecting gravitational waves from cosmological phase transitions with LISA: an update. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 024-024.	5.4	373
3	FCC-hh: The Hadron Collider. European Physical Journal: Special Topics, 2019, 228, 755-1107.	2.6	367
4	FCC Physics Opportunities. European Physical Journal C, 2019, 79, 1.	3.9	346
5	Boosted objects and jet substructure at the LHC. Report of BOOST2012, held at IFIC Valencia, 23rd–27th of July 2012. European Physical Journal C, 2014, 74, 1.	3.9	124
6	HE-LHC: The High-Energy Large Hadron Collider. European Physical Journal: Special Topics, 2019, 228, 1109-1382.	2.6	108
7	Unified explanation for dark matter and electroweak baryogenesis with direct detection and gravitational wave signatures. Physical Review D, 2016, 94, .	4.7	106
8	Constraining dark sectors with monojets and dijets. Journal of High Energy Physics, 2015, 2015, 1.	4.7	99
9	Tricking Landau–Yang: How to obtain the diphoton excess from a vector resonance. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 755, 145-149.	4.1	77
10	Signals of the electroweak phase transition at colliders and gravitational wave observatories. Journal of High Energy Physics, 2018, 2018, 1.	4.7	73
11	Running in the ALPs. European Physical Journal C, 2021, 81, 1.	3.9	64
12	$h\bar{t}t$ excess and dark matter from composite Higgs models. Journal of High Energy Physics, 2013, 2013, 1.	4.7	62
13	Observable effects of general new scalar particles. Journal of High Energy Physics, 2015, 2015, 1.	4.7	62
14	LHC bounds on lepton number violation mediated by doubly and singly-charged scalars. Journal of High Energy Physics, 2014, 2014, 1.	4.7	49
15	Gravitational wave and collider probes of a triplet Higgs sector with a low cutoff. European Physical Journal C, 2019, 79, 1.	3.9	47
16	Direct bounds on heavy top-like quarks with standard and exotic decays. Physical Review D, 2017, 96, .	4.7	45
17	Single vector-like quark production at the LHC. Nuclear Physics B, 2012, 857, 172-184.	2.5	43
18	$\bar{t}t$ ACP within the Standard Model and beyond. Journal of High Energy Physics, 2019, 2019, 1.	4.7	42

#	ARTICLE	IF	CITATIONS
19	Global constraints on lepton-quark contact interactions. <i>Physical Review D</i> , 2013, 88, .	4.7	41
20	Minimally extended SILH. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	4.7	40
21	One-loop matching in the SMEFT extended with a sterile neutrino. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	4.7	40
22	Composite Dark Sectors. <i>Journal of High Energy Physics</i> , 2015, 2015, 1.	4.7	38
23	Renormalization group constraints on new top interactions from electroweak precision data. <i>Journal of High Energy Physics</i> , 2015, 2015, 1.	4.7	38
24	Probes of the Standard Model effective field theory extended with a right-handed neutrino. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	4.7	38
25	Higgs phenomenology as a probe of sterile neutrinos. <i>Physical Review D</i> , 2019, 100, .	4.7	34
26	Towards the renormalisation of the Standard Model effective field theory to dimension eight: Bosonic interactions I. <i>SciPost Physics</i> , 2021, 11, .	4.9	33
27	Exceptional composite dark matter. <i>European Physical Journal C</i> , 2017, 77, 1.	3.9	32
28	Discriminating between lepton number violating scalars using events with four and three charged leptons at the LHC. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013, 725, 310-315.	4.1	30
29	Collider limits on leptophilic interactions. <i>Journal of High Energy Physics</i> , 2015, 2015, 1.	4.7	30
30	Searches for vector-like quarks at future colliders and implications for composite Higgs models with dark matter. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	4.7	29
31	The elusive gluon. <i>Journal of High Energy Physics</i> , 2015, 2015, 1.	4.7	25
32	New Higgs production mechanism in composite Higgs models. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	4.7	24
33	One-loop running of dimension-six Higgs-neutrino operators and implications of a large neutrino dipole moment. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	4.7	23
34	Constraining four-fermion operators using rare top decays. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	4.7	22
35	Positivity bounds in the standard model effective field theory beyond tree level. <i>Physical Review D</i> , 2022, 105, .	4.7	22
36	Searches for new vector like quarks: Higgs channels. <i>Journal of High Energy Physics</i> , 2013, 2013, 1.	4.7	21

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37	Top quark FCNCs in extended Higgs sectors. European Physical Journal C, 2018, 78, 1.	3.9	20
38	Neutrino masses in the Standard Model effective field theory. Physical Review D, 2021, 104, .	4.7	17
39	A Green's basis for the bosonic SMEFT to dimension 8. Journal of High Energy Physics, 2022, 2022, .	4.7	17
40	Behavior of composite resonances breaking lepton flavor universality. Physical Review D, 2018, 98, .	4.7	15
41	LHC signals of radiatively-induced neutrino masses and implications for the Zee-Babu model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 779, 107-116.	4.1	14
42	The effective field theory of low scale see-saw at colliders. European Physical Journal C, 2020, 80, 1.	3.9	13
43	From Tevatron's top and lepton-based asymmetries to the LHC. Journal of High Energy Physics, 2014, 2014, 1.	4.7	11
44	Confronting SUSY models with LHC data via electroweakino production. Journal of High Energy Physics, 2016, 2016, 1.	4.7	10
45	A light sneutrino rescues the light stop. Journal of High Energy Physics, 2017, 2017, 1.	4.7	10
46	Searching new physics in rare B-meson decays into multiple muons. European Physical Journal C, 2019, 79, 1.	3.9	9
47	Mapping the shape of the scalar potential with gravitational waves. International Journal of Modern Physics A, 2019, 34, 1950223.	1.5	8
48	Distinguishing between lepton number violating scalars at the LHC. EPJ Web of Conferences, 2013, 60, 17002.	0.3	7
49	Deciphering the CP nature of the 750-GeV resonance. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 760, 220-227.	4.1	7
50	$H \rightarrow b \bar{b} \hat{A}^-$ production in composite Higgs models. Physical Review D, 2013, 88, .	4.7	6
51	Lepton Number Violation and Scalar Searches at the LHC. Acta Physica Polonica B, 2013, 44, 2139.	0.8	5
52	Effective field theory for vector-like leptons and its collider signals. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 809, 135752.	4.1	5
53	Novel B -decay signatures of light scalars at high energy facilities. Physical Review D, 2019, 100, .	4.7	4
54	Interplay between collider searches for vector-like quarks and dark matter searches in composite Higgs models. International Journal of Modern Physics A, 2019, 34, 1940011.	1.5	3

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55	Novel flavour-changing neutral currents in the top quark sector. Journal of High Energy Physics, 2020, 2020, 1.	4.7	3
56	Review on Goldstone dark matter. European Physical Journal: Special Topics, 0, , 1.	2.6	2
57	A critical assessment of the status of LHC searches for new physics. , 2018, , .		1
58	Four and two-lepton signals of leptophilic gauge interactions at large colliders. , 2015, , .		1
59	Physics of the Interplay Between the Top Quark and the Higgs Boson. Journal of Physics: Conference Series, 2013, 452, 012008.	0.4	0