David Curtin

List of Publications by Year
in descending order

50 papers	2,895 citations	279798 23 h-index	206112 48 g-index
50 all docs	50 docs citations	50 times ranked	6477 citing authors

#	Article	IF	Citations
1	A facility to search for hidden particles at the CERN SPS: the SHiP physics case. Reports on Progress in Physics, 2016, 79, 124201.	20.1	496
2	Physics beyond colliders at CERN: beyond the Standard Model working group report. Journal of Physics G: Nuclear and Particle Physics, 2020, 47, 010501.	3.6	254
3	Illuminating dark photons with high-energy colliders. Journal of High Energy Physics, 2015, 2015, 1.	4.7	241
4	Long-lived particles at the energy frontier: the MATHUSLA physics case. Reports on Progress in Physics, 2019, 82, 116201.	20.1	220
5	Exotic decays of the 125ÂGeV Higgs boson. Physical Review D, 2014, 90, .	4.7	209
6	Testing electroweak baryogenesis with future colliders. Journal of High Energy Physics, 2014, 2014, 1.	4.7	197
7	New detectors to explore the lifetime frontier. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 767, 29-36.	4.1	190
8	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
9	Discovering uncolored naturalness in exotic Higgs decays. Journal of High Energy Physics, 2015, 2015, 1-36.	4.7	94
10	Excluding electroweak baryogenesis in the MSSM. Journal of High Energy Physics, 2012, 2012, 1.	4.7	75
11	Thermal resummation and phase transitions. European Physical Journal C, 2018, 78, 1.	3.9	74
12	Quirky explanations for the diphoton excess. Physical Review D, 2016, 93, .	4.7	61
13	Discovering the physics of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mo stretchy="false">(</mml:mo><mml:mi>g</mml:mi><mml:mo>â^’</mml:mo><mml:mn>2</mml:mn><mml:msub><mml:mrow></mml:mrow><mml:mo at future muon colliders. Physical Review D, 2021, 103, .	4.7	60
14	Cosmological signatures of a mirror twin Higgs. Journal of High Energy Physics, 2018, 2018, 1.	4.7	52
15	Charginos hiding in plain sight. Physical Review D, 2013, 87, .	4.7	38
16	Natural SUSY in plain sight. Physical Review D, 2014, 90, .	4.7	37
17	Analysis of long-lived particle decays with the MATHUSLA detector. Physical Review D, 2018, 97, .	4.7	36
18	No-lose theorem for discovering the new physics of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mo stretchy="false">(</mml:mo><mml:mi>g</mml:mi><mml:mo>â^’</mml:mo><mml:mn>2</mml:mn><mml:msub><mml:mo Review D, 2022, 105, .	4.7	36

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19	A quirky probe of neutral naturalness. Physical Review D, 2016, 94, .	4.7	34
20	New physics opportunities for long-lived particles at electron-proton colliders. Journal of High Energy Physics, 2018, 2018, 1.	4.7	31
21	Signatures of mirror stars. Journal of High Energy Physics, 2020, 2020, 1.	4.7	29
22	Data-driven model-independent searches for long-lived particles at the LHC. Physical Review D, 2016, 94, .	4.7	24
23	How to discover Mirror Stars. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 804, 135391.	4.1	24
24	Measuring the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>t</mml:mi><mml:mover accent="true"><mml:mi>t</mml:mi><mml:mo>Â¯</mml:mo></mml:mover><mml:mi>h</mml:mi></mml:math>coupling from same-sign dilepton<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mo mathvariant="bold">+</mml:mo><mml:mn>2</mml:mn><mml:mi>b</mml:mi></mml:math>measurements.	4.7	23
25	Systematically testing singlet models for (g â^’ 2)Î¼. Journal of High Energy Physics, 2022, 2022, 1.	4.7	20
26	Towards a no-lose theorem for naturalness. Physical Review D, 2016, 93, .	4.7	19
27	A flavor protection for warped Higgsless models. Physical Review D, 2009, 80, .	4.7	17
28	Dynamical Dark Matter, MATHUSLA, and the lifetime frontier. Physical Review D, 2018, 98, .	4.7	16
29	Casting light on BSM physics with SM standard candles. Journal of High Energy Physics, 2013, 2013, 1.	4.7	15
30	Mixing it up with<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>M</mml:mi><mml:mrow><mml:mi>T</mml:mi><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:math>: Unbiased mass measurements at hadron colliders. Physical Review D, 2012, 85, .	4.7	14
31	Direct detection of mirror matter in Twin Higgs models. Journal of High Energy Physics, 2021, 2021, 1.	4.7	14
32	Uncovering light scalars with exotic Higgs decays to b b Â¯ Î¼ + Î¼ â^’ $$ boverline{b}{mu}^{+}{mu}^{-} $$. Journal of High Energy Physics, 2015, 2015, 1.	4.7	13
33	Direct detection of atomic dark matter in white dwarfs. Journal of High Energy Physics, 2021, 2021, 1.	4.7	12
34	Twin Higgs portal dark matter. Journal of High Energy Physics, 2021, 2021, 1.	4.7	12
35	SpontaneousR-symmetry breaking with multiple pseudomoduli. Physical Review D, 2012, 85, .	4.7	9
36	Supersymmetric Yukawa sum rule and LHC tests. Physical Review D, 2010, 82, .	4.7	8

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37	Boosted multijet resonances and new color-flow variables. Physical Review D, 2013, 88, .	4.7	8
38	The MATHUSLA test stand. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2021, 985, 164661.	1.6	8
39	Unsupervised hadronic SUEP at the LHC. Journal of High Energy Physics, 2021, 2021, 1.	4.7	8
40	Resurrecting the fraternal twin WIMP miracle. Physical Review D, 2022, 105, .	4.7	7
41	Direct detection with dark mediators. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 738, 477-482.	4.1	6
42	The double-dark portal. Journal of High Energy Physics, 2014, 2014, 1.	4.7	6
43	How to search for mirror stars with Gaia. Journal of High Energy Physics, 2022, 2022, .	4.7	5
44	Closing the light gluino gap with electron-proton colliders. Physical Review D, 2019, 99, .	4.7	3
45	On the origin of long-lived particles. Journal of High Energy Physics, 2020, 2020, 1.	4.7	3
46	Using LSST Microlensing to Constrain Dark Compact Objects in Spherical and Disk Configurations. Astrophysical Journal, 2022, 933, 177.	4.5	2
47	Singlet-stabilized minimal gauge mediation. Physical Review D, 2011, 83, .	4.7	1
48	Supersymmetry breaking triggered by monopoles. Physical Review D, 2012, 85, .	4.7	1
49	Hidden worlds of fundamental particles. Physics Today, 2017, 70, 46-52.	0.3	0
50	Probing BSM physics with electron-proton colliders. , 2018, , .		0