Doojin Kim

List of Publications by Year
in descending order

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64	1,101	331670 21	477307 29
papers	citations	h-index	g-index

64	64	64	4080
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	750ÂGeV Diphoton Excess May Not Imply a 750ÂGeV Resonance. Physical Review Letters, 2016, 116, 151805.	7.8	54
2	Inelastic Boosted Dark Matter at direct detection experiments. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 780, 543-552.	4.1	53
3	Disambiguating seesaw models using invariant mass variables at hadron colliders. Journal of High Energy Physics, 2016, 2016, 1.	4.7	50
4	Dark Matter Signals from Timing Spectra at Neutrino Experiments. Physical Review Letters, 2020, 124, 121802.	7.8	46
5	Dark Matter â€œColliderâ€•from Inelastic Boosted Dark Matter. Physical Review Letters, 2017, 119, 161801.	7.8	41
6	New Directions for Axion Searches via Scattering at Reactor Neutrino Experiments. Physical Review Letters, 2020, 124, 211804.	7.8	41
7	Simple â€œinvarianceâ€•of two-body decay kinematics. Physical Review D, 2013, 88, .	4.7	38
8	On-shell constrained M 2 variables with applications to mass measurements and topology disambiguation. Journal of High Energy Physics, 2014, 2014, 1.	4.7	37
9	Distinguishing dark matter stabilization symmetries using multiple kinematic edges and cusps. Physical Review D, 2010, 82, .	4.7	31
10	Probing Resonance Decays to Two Visible and Multiple Invisible Particles. Physical Review Letters, 2014, 112, .	7.8	30
11	Using energy peaks to count dark matter particles in decays. Physics of the Dark Universe, 2013, 2, 72-82.	4.9	28
12	Searching for boosted dark matter at ProtoDUNE. Physical Review D, 2018, 98, .	4.7	27
13	Explaining the ANITA anomaly with inelastic boosted dark matter. Physical Review D, 2019, 100, .	4.7	27
14	Axionlike Particles at Future Neutrino Experiments: Closing the Cosmological Triangle. Physical Review Letters, 2021, 126, 201801.	7.8	27
15	Lines and boxes: Unmasking Dynamical Dark Matter through correlations in the MeV gamma-ray spectrum. Physical Review D, 2016, 94, .	4.7	25
16	LHC signals from cascade decays of warped vector resonances. Journal of High Energy Physics, 2017, 2017, 1.	4.7	25
17	Using<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>to distinguish dark matter stabilization symmetries. Physical Review D, 2011, 84, .	4.7	23
18	Diboson excesses demystified in effective field theory approach. Journal of High Energy Physics, 2015, 2015, 1.	4.7	23

#	Article	IF	Citations
19	Using energy peaks to measure new particle masses. Journal of High Energy Physics, 2014, 2014, 1.	4.7	22
20	Boosted dark matter quarrying at surface neutrino detectors. Journal of High Energy Physics, 2018, 2018, 1.	4.7	22
21	Improving the sensitivity of stop searches with on-shell constrained invariant mass variables. Journal of High Energy Physics, 2015, 2015, 1.	4.7	21
22	Boxes, boosts, and energy duality: Understanding the Galactic Center gamma-ray excess through Dynamical Dark Matter. Physical Review D, 2017, 95, .	4.7	21
23	OPTIMASS: a package for the minimization of kinematic mass functions with constraints. Journal of High Energy Physics, 2016, 2016, 1.	4.7	18
24	Edge detecting new physics the Voronoi way. Europhysics Letters, 2016, 114, 41001.	2.0	17
25	Fragmentation uncertainties in hadronic observables for top-quark mass measurements. Nuclear Physics B, 2018, 929, 485-526.	2.5	17
26	Detecting a boosted diboson resonance. Journal of High Energy Physics, 2018, 2018, 1.	4.7	16
27	Searching for dark matter signals in timing spectra at neutrino experiments. Journal of High Energy Physics, 2022, 2022, 1.	4.7	16
28	Identifying phase-space boundaries with Voronoi tessellations. European Physical Journal C, 2016, 76, 1.	3.9	15
29	Axions: From magnetars and neutron star mergers to beam dumps and BECs. International Journal of Modern Physics D, 2021, 30, 2130002.	2.1	15
30	Improving the tunings of the MSSM by adding triplets and singlet. Physical Review D, 2011, 84, .	4.7	14
31	Top quark mass determination from the energy peaks of b-jets and B-hadrons at NLO QCD. European Physical Journal C, 2016, 76, 1.	3.9	14
32	Dedicated strategies for triboson signals from cascade decays of vector resonances. Physical Review D, 2019, 99, .	4.7	14
33	Using sorted invariant mass variables to evade combinatorial ambiguities in cascade decays. Journal of High Energy Physics, 2016, 2016, 1.	4.7	13
34	Dark matter â€œtransportingâ€•mechanism explaining positron excesses. Journal of High Energy Physics, 2018, 2018, 1.	4.7	13
35	PASSAT: particle accelerator helioScopes for Slim Axion-like-particle deTection. European Physical Journal C, 2020, 80, 1.	3.9	13
36	Testing invisible momentum ansatze in missing energy events at the LHC. Journal of High Energy Physics, 2017, 2017, 1.	4.7	12

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37	Searching for boosted dark matter via dark-photon bremsstrahlung. Physical Review D, 2019, 100, .	4.7	12
38	Resolving combinatorial ambiguities in dilepton <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>t</mml:mi><mml:mover accent="true"><mml:mrow><mml:mi>t</mml:mi></mml:mrow><mml:mrow><mml:mo stretchy="false">Â¯</mml:mo></mml:mrow></mml:mover></mml:mrow></mml:math> event topologies with constrained <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><m	4.7	11
39	Nonminimal dark sectors: Mediator-induced decay chains and multijet collider signatures. Physical Review D, 2020, 101, .	4.7	11
40	Invisible dark gauge boson search in top decays using a kinematic method. Journal of High Energy Physics, 2015, 2015, 1.	4.7	10
41	Detecting kinematic boundary surfaces in phase space: particle mass measurements in SUSY-like events. Journal of High Energy Physics, 2017, 2017, 1.	4.7	10
42	Zwith missing energy as a warped graviton signal at hadron colliders. Physical Review D, 2014, 89, .	4.7	9
43	Mass measurement using energy spectra in three-body decays. Journal of High Energy Physics, 2016, 2016, 1.	4.7	9
44	Energy peak: Back to the Galactic Center GeV gamma-ray excess. Physics of the Dark Universe, 2016, 11, 74-78.	4.9	9
45	Optimizing energetic light dark matter searches in dark matter and neutrino experiments. Journal of High Energy Physics, 2020, 2020, 1.	4.7	9
46	Implications of the XENON1T excess on the dark matter interpretation. Journal of High Energy Physics, 2021, 2021, 1.	4.7	9
47	Probing energetic light dark matter with multi-particle tracks signatures at DUNE. Journal of High Energy Physics, 2020, 2020, 1.	4.7	8
48	Coherent elastic neutrino-nucleus scattering with the Î½BDXâˆ’DRIFT directional detector at next generation neutrino facilities. Physical Review D, 2021, 104, .	4.7	8
49	Stasis in an expanding universe: A recipe for stable mixed-component cosmological eras. Physical Review D, 2022, 105, .	4.7	8
50	An alternative interpretation for cosmic ray peaks. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 750, 552-558.	4.1	7
51	Energy spectra of massive two-body decay products and mass measurement. Journal of High Energy Physics, 2016, 2016, 1-37.	4.7	7
52	New interference effects from light gauge bosons in neutrino-electron scattering. Physical Review D, 2021, 104, .	4.7	7
53	Enhancing the discovery prospects for SUSY-like decays with a forgotten kinematic variable. Journal of High Energy Physics, 2019, 2019, 1.	4.7	6
54	Kinematic focus point method for particle mass measurements in missing energy events. Journal of High Energy Physics, 2019, 2019, 1.	4.7	6

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55	Kinematic discrimination of tW and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:mi>t</mml:mi><mml:mover accent="true"><mml:mrow><mml:mi>t</mml:mi></mml:mrow><mml:mrow><mml:mo stretchy="false">Â¯</mml:mo></mml:mrow></mml:mover></mml:math> productions using initial state radiation. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 751, 512-524.	4.1	5
56	LHC signals for KK graviton from an extended warped extra dimension. Journal of High Energy Physics, 2020, 2020, 1.	4.7	5
57	Pathfinder for a high statistics search for missing energy in gamma cascades. Physical Review D, 2022, 105, .	4.7	5
58	Enhancement of new physics signal sensitivity with mistagged charm quarks. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 758, 190-194.	4.1	4
59	PASSAT at future neutrino experiments: Hybrid beam-dump-helioscope facilities to probe light axionlike particles. Physical Review D, 2021, 104, .	4.7	4
60	Photon cascade decay of the warped graviton at LHC14 and a 100ÂTeV hadron collider. Physical Review D, 2015, 91, .	4.7	1
61	Distinguishing dark matter stabilization symmetries at hadron colliders. AIP Conference Proceedings, 2016, , .	0.4	1
62	How to prove that a <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:menclose notation="updiagonalstrike" other="updiag4"><mml:mrow><mml:mi mathvariant="normal">E</mml:mi></mml:mrow></mml:menclose></mml:mrow><mml:mrow><mml:mi>T</mml:mi></mml:mrow></mml:mm excess at the LHC is not due to dark matter. Physical Review D, 2018, 98, .	4.7	1
63	Identifying a new particle with jet substructures. Journal of High Energy Physics, 2017, 2017, 1.	4.7	0
64	DDM trilogy with the â€œenergy-peakâ€•method: MeV, GeV, and TeV. AIP Conference Proceedings, 2017, , .	0.4	0