

Jason Kumar

List of Publications by Year in descending order

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Version: 2024-02-01

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citations

270111

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docs citations

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1692
citing authors

#	ARTICLE	IF	CITATIONS
1	Explaining $g_{1/4}^2$ and RK^* using the light mediators of $U(1)T_3R$. Physical Review D, 2022, 105, .	1.6	2
2	Low-mass inelastic dark matter direct detection via the Migdal effect. Physical Review D, 2021, 104, .	1.6	21
3	Cosmic-ray upscattered inelastic dark matter. Physical Review D, 2021, 104, .	1.6	29
4	Explaining the XENON1T Excess with Luminous Dark Matter. Physical Review Letters, 2020, 125, 161803.	2.9	49
5	Effective $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -factors for MilkyWay dwarf spheroidal galaxies with velocity-dependent annihilation. Physical Review D, 2020, 102, .	1.6	18
6	Dark matter through the quark vector current portal. Pramana - Journal of Physics, 2020, 94, 1. Contributions to $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle$	0.9	1
7	from the dark photon of $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle$ Opportunities for probing $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle$ stretchy="false" $\langle \text{mml:mo} \rangle \langle \text{mml:mn} \rangle 1 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mo} \rangle$ Tj ETQq0 0 0 rgBT /Overlook 10 Tf 50 457 Td	1.6	7
8	with light mediators. Physical Review D, 2020, 102, .	1.6	15
9	Foraging for dark matter in large volume liquid scintillator neutrino detectors with multiscatter events. Physical Review D, 2019, 99, .	1.6	31
10	Sub-GeV dark matter model. Physical Review D, 2019, 100, .	1.6	31
11	Cosmological constraints on unstable particles: Numerical bounds and analytic approximations. Physical Review D, 2019, 99, .	1.6	8
12	Angular distribution of gamma-ray emission from velocity-dependent dark matter annihilation in subhalos. Physical Review D, 2019, 100, .	1.6	15
13	Directly detecting isospin-violating dark matter. Physical Review D, 2018, 97, .	1.6	5
14	Dynamical Dark Matter from thermal freeze-out. Physical Review D, 2018, 97, .	1.6	12
15	Effective $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -factor of the Galactic Center for velocity-dependent dark matter annihilation. Physical Review D, 2018, 98, .	1.6	27
16	Model-independent constraints on dark matter annihilation in dwarf spheroidal galaxies. Physical Review D, 2018, 97, .	1.6	25
17	Off-diagonal dark-matter phenomenology: Exploring enhanced complementarity relations in nonminimal dark sectors. Physical Review D, 2017, 96, .	1.6	15
18	Boxes, boosts, and energy duality: Understanding the Galactic Center gamma-ray excess through Dynamical Dark Matter. Physical Review D, 2017, 95, .	1.6	21

#	ARTICLE	IF	CITATIONS
19	Sommerfeld-enhanced J -factors for dwarf spheroidal galaxies. Physical Review D, 2017, 95, .	1.6	38
20	Probing squeezed bino-slepton spectra with the Large Hadron Collider. Physical Review D, 2017, 96, .	1.6	7
21	Study of dark matter and QCD-charged mediators in the quasidegenerate regime. Physical Review D, 2017, 96, .	1.6	3
22	Lines and boxes: Unmasking Dynamical Dark Matter through correlations in the MeV gamma-ray spectrum. Physical Review D, 2016, 94, .	1.6	25
23	Randomness in the dark sector: Emergent mass spectra and Dynamical Dark Matter ensembles. Physical Review D, 2016, 93, .	1.6	14
24	Vector dark matter at the LHC. Physical Review D, 2015, 92, .	1.6	10
25	Dark-Matter Decay as a Complementary Probe of Multicomponent Dark Sectors. Physical Review Letters, 2015, 114, 051301.	2.9	40
26	Charged mediators in dark matter scattering with nuclei and the strangeness content of nucleons. Physical Review D, 2015, 91, .	1.6	13
27	Asymmetric dark matter. , 2014, , .		6
28	MSSM dark matter and a light slepton sector: The incredible bulk. Physical Review D, 2014, 90, .	1.6	23
29	Bounds on self-interacting fermion dark matter from observations of old neutron stars. Physical Review D, 2014, 89, .	1.6	63
30	Overcoming velocity suppression in dark-matter direct-detection experiments. Physical Review D, 2014, 90, .	1.6	40
31	Dynamical Dark Matter and the positron excess in light of AMS results. Physical Review D, 2013, 88, .	1.6	43
32	Gamma rays from bino-like dark matter in the MSSM. Physical Review D, 2013, 87, .	1.6	3
33	Xenophobic dark matter. Physical Review D, 2013, 88, .	1.6	45
34	Phenomenology of Dirac neutralino dark matter. Physical Review D, 2013, 88, .	1.6	33
35	Dipole moment bounds on dark matter annihilation. Physical Review D, 2013, 88, .	1.6	15
36	Matrix element analyses of dark matter scattering and annihilation. Physical Review D, 2013, 88, .	1.6	96

#	ARTICLE	IF	CITATIONS
37	Direct detection of dynamical dark matter. Physical Review D, 2012, 86, .	1.6	29
38	Bremsstrahlung signatures of dark matter annihilation in the Sun. Physical Review D, 2012, 86, .	1.6	12
39	Spin determination for fermiophobic bosons. Physical Review D, 2012, 86, .	1.6	7
40	New constraints on isospin-violating dark matter. Physical Review D, 2012, 85, .	1.6	17
41	Large jet multiplicities and new physics at the LHC. Physical Review D, 2012, 86, .	1.6	4
42	PROBING ISOSPIN-VIOLATING DARK MATTER. International Journal of Modern Physics Conference Series, 2012, 10, 115-122.	0.7	0
43	$B\bar{c}s$ with direct decays: Tevatron and LHC discovery prospects in the $b\bar{b} + E\bar{E}$ channel. Physical Review D, 2011, 84, .	1.6	6
44	Collider searches for fermiophobic gauge bosons. Physical Review D, 2011, 84, .	1.6	7
45	Isospin-violating dark matter. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 703, 124-127.	1.5	223
46	Asymmetric dark matter from hidden sector baryogenesis. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 699, 364-367.	1.5	68
47	Higher representations and multijet resonances at the LHC. Physical Review D, 2011, 84, .	1.6	9
48	Detection prospects for Majorana fermion WIMPless dark matter. Physical Review D, 2011, 84, .	1.6	8
49	Dark matter-motivated searches for exotic fourth-generation mirror quarks in Tevatron and early LHC data. Physical Review D, 2010, 81, .	1.6	44
50	WIMPless Dark Matter. , 2010, , .		7
51	Constructing infrared finite propagators in inflating space-time. Physical Review D, 2010, 82, .	1.6	23
52	Fermion WIMPless dark matter at DeepCore and IceCube. Physical Review D, 2010, 81, .	1.6	21
53	Testing the Dark Matter interpretation of the DAMA/LIBRA result with Super-Kamiokande. Journal of Cosmology and Astroparticle Physics, 2009, 2009, 032-032.	1.9	33
54	Light dark matter detection prospects at neutrino experiments. Physical Review D, 2009, 80, .	1.6	18

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55	FROM DAMA/LIBRA TO SUPER-KAMIOKANDE. , 2009, , .		1
56	Probing the Green-Schwarz mechanism at the CERN Large Hadron Collider. Physical Review D, 2008, 77, .	1.6	29
57	Dark-Matter Particles without Weak-Scale Masses or Weak Interactions. Physical Review Letters, 2008, 101, 231301.	2.9	314
58	Multi-Brane Recombination and Standard Model Flux Vacua. AIP Conference Proceedings, 2007, , .	0.3	4
59	Hadron and linear collider probes of hidden-sector gauge bosons. Physical Review D, 2006, 74, .	1.6	55
60	Hidden sector baryogenesis. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2006, 643, 284-289.	1.5	17
61	A REVIEW OF DISTRIBUTIONS ON THE STRING LANDSCAPE. International Journal of Modern Physics A, 2006, 21, 3441-3472.	0.5	30
62	Landscape cartography: A coarse survey of gauge group rank and stabilization of the proton. Physical Review D, 2005, 71, .	1.6	30
63	Orientifolds, renormalization-group flows and closed string tachyons. Classical and Quantum Gravity, 2000, 17, 1139-1150.	1.5	18
64	Vacuum energy cancellation in a nonsupersymmetric string. Physical Review D, 1999, 59, .	1.6	80
65	Black Holes and Superconformal Mechanics. Physical Review Letters, 1998, 81, 4553-4556.	2.9	212