Jason Kumar

List of Publications by Year in descending order

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Version: 2024-02-01

65 papers	2,173 citations	236925 25 h-index	223800 46 g-index
65 all docs	65 docs citations	65 times ranked	1591 citing authors

#	Article	IF	Citations
1	Dark-Matter Particles without Weak-Scale Masses or Weak Interactions. Physical Review Letters, 2008, 101, 231301.	7.8	314
2	Isospin-violating dark matter. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 703, 124-127.	4.1	223
3	Black Holes and Superconformal Mechanics. Physical Review Letters, 1998, 81, 4553-4556.	7.8	212
4	Matrix element analyses of dark matter scattering and annihilation. Physical Review D, 2013, 88, .	4.7	96
5	Vacuum energy cancellation in a nonsupersymmetric string. Physical Review D, 1999, 59, .	4.7	80
6	Asymmetric dark matter from hidden sector baryogenesis. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 699, 364-367.	4.1	68
7	Bounds on self-interacting fermion dark matter from observations of old neutron stars. Physical Review D, 2014, 89, .	4.7	63
8	Hadron and linear collider probes of hidden-sector gauge bosons. Physical Review D, 2006, 74, .	4.7	55
9	Explaining the XENON1T Excess with Luminous Dark Matter. Physical Review Letters, 2020, 125, 161803.	7.8	49
10	Xenophobic dark matter. Physical Review D, 2013, 88, .	4.7	45
11	Dark matter-motivated searches for exotic fourth-generation mirror quarks in Tevatron and early LHC data. Physical Review D, 2010, 81, .	4.7	44
12	Dynamical Dark Matter and the positron excess in light of AMS results. Physical Review D, 2013, 88, .	4.7	43
13	Overcoming velocity suppression in dark-matter direct-detection experiments. Physical Review D, 2014, 90, .	4.7	40
14	Dark-Matter Decay as a Complementary Probe of Multicomponent Dark Sectors. Physical Review Letters, 2015, 114, 051301.	7.8	40
15	Sommerfeld-enhanced <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>J</mml:mi></mml:math> -factors for dwarf spheroidal galaxies. Physical Review D, 2017, 95, .	4.7	38
16	Testing the Dark Matter interpretation of the DAMA/LIBRA result with Super-Kamiokande. Journal of Cosmology and Astroparticle Physics, 2009, 2009, 032-032.	5.4	33
17	Phenomenology of Dirac neutralino dark matter. Physical Review D, 2013, 88, .	4.7	33
18	Foraging for dark matter in large volume liquid scintillator neutrino detectors with multiscatter events. Physical Review D, 2019, 99, .	4.7	31

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19	Sub-GeV dark matter model. Physical Review D, 2019, 100, .	4.7	31
20	Landscape cartography: A coarse survey of gauge group rank and stabilization of the proton. Physical Review D, 2005, 71, .	4.7	30
21	A REVIEW OF DISTRIBUTIONS ON THE STRING LANDSCAPE. International Journal of Modern Physics A, 2006, 21, 3441-3472.	1.5	30
22	Probing the Green-Schwarz mechanism at the CERN Large Hadron Collider. Physical Review D, 2008, 77, .	4.7	29
23	Direct detection of dynamical dark matter. Physical Review D, 2012, 86, .	4.7	29
24	Cosmic-ray upscattered inelastic dark matter. Physical Review D, 2021, 104, .	4.7	29
25	Effective <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>J</mml:mi></mml:math> -factor of the Galactic Center for velocity-dependent dark matter annihilation. Physical Review D, 2018, 98, .	4.7	27
26	Lines and boxes: Unmasking Dynamical Dark Matter through correlations in the MeV gamma-ray spectrum. Physical Review D, 2016, 94, .	4.7	25
27	Model-independent constraints on dark matter annihilation in dwarf spheroidal galaxies. Physical Review D, 2018, 97, .	4.7	25
28	Constructing infrared finite propagators in inflating space-time. Physical Review D, 2010, 82, .	4.7	23
29	MSSM dark matter and a light slepton sector: The incredible bulk. Physical Review D, 2014, 90, .	4.7	23
30	Fermion WIMPless dark matter at DeepCore and IceCube. Physical Review D, 2010, 81, .	4.7	21
31	Boxes, boosts, and energy duality: Understanding the Galactic Center gamma-ray excess through Dynamical Dark Matter. Physical Review D, 2017, 95, .	4.7	21
32	Low-mass inelastic dark matter direct detection via the Migdal effect. Physical Review D, 2021, 104, .	4.7	21
33	Orientifolds, renormalization-group flows and closed string tachyons. Classical and Quantum Gravity, 2000, 17, 1139-1150.	4.0	18
34	Light dark matter detection prospects at neutrino experiments. Physical Review D, 2009, 80, .	4.7	18
35	Effective <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>J</mml:mi></mml:math> -factors for MilkyÂWay dwarf spheroidal galaxies with velocity-dependent annihilation. Physical Review D, 2020, 102, .	4.7	18
36	Hidden sector baryogenesis. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2006, 643, 284-289.	4.1	17

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37	New constraints on isospin-violating dark matter. Physical Review D, 2012, 85, .	4.7	17
38	Dipole moment bounds on dark matter annihilation. Physical Review D, 2013, 88, .	4.7	15
39	Off-diagonal dark-matter phenomenology: Exploring enhanced complementarity relations in nonminimal dark sectors. Physical Review D, 2017, 96, .	4.7	15
40	Angular distribution of gamma-ray emission from velocity-dependent dark matter annihilation in subhalos. Physical Review D, 2019, 100, .	4.7	15
41	Randomness in the dark sector: Emergent mass spectra and Dynamical Dark Matter ensembles. Physical Review D, 2016, 93, .	4.7	14
42	Charged mediators in dark matter scattering with nuclei and the strangeness content of nucleons. Physical Review D, 2015, 91, .	4.7	13
43	Opportunities for probing <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>U</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mn>1</mml:mn><mml:msub><mml:mrow><mml:mo) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 with light mediators. Physical Review D, 2020, 102, .	4.7	13
44	Bremsstrahlung signatures of dark matter annihilation in the Sun. Physical Review D, 2012, 86, .	4.7	12
45	Dynamical Dark Matter from thermal freeze-out. Physical Review D, 2018, 97, .	4.7	12
46	Vector dark matter at the LHC. Physical Review D, 2015, 92, .	4.7	10
47	Higher representations and multijet resonances at the LHC. Physical Review D, 2011, 84, .	4.7	9
48	Detection prospects for Majorana fermion WIMPless dark matter. Physical Review D, 2011, 84, .	4.7	8
49	Cosmological constraints on unstable particles: Numerical bounds and analytic approximations. Physical Review D, 2019, 99, .	4.7	8
50	WIMPless Dark Matter. , 2010, , .		7
51	Collider searches for fermiophobic gauge bosons. Physical Review D, 2011, 84, .	4.7	7
52	Spin determination for fermiophobic bosons. Physical Review D, 2012, 86, .	4.7	7
53	Probing squeezed bino-slepton spectra with the Large Hadron Collider. Physical Review D, 2017, 96, .	4.7	7
54	Contributions to <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi mathvariant="normal">Î”</mml:mi><mml:msub><mml:mi>N</mml:mi><mml:mrow><mml:mi>eff</mml:mi></mml:mrow></mml:msub> from the dark photon of <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:msub><mml:mo) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 37 Td (stretchy="fals	4.7	7

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55	Bâ€²s with direct decays: Tevatron and LHC discovery prospects in thebbÂ¯+EÌ¸Tchannel. Physical Review D, 2011, 84, .	4.7	6
56	Asymmetric dark matter. , 2014, , .		6
57	Directly detecting isospin-violating dark matter. Physical Review D, 2018, 97, .	4.7	5
58	Multi-Brane Recombination and Standard Model Flux Vacua. AIP Conference Proceedings, 2007, , .	0.4	4
59	Large jet multiplicities and new physics at the LHC. Physical Review D, 2012, 86, .	4.7	4
60	Gamma rays from bino-like dark matter in the MSSM. Physical Review D, 2013, 87, .	4.7	3
61	Study of dark matter and QCD-charged mediators in the quasidegenerate regime. Physical Review D, 2017, 96, .	4.7	3
62	Explaining gÎ¼â^'2 and RK(*) using the light mediators of U(1)T3R. Physical Review D, 2022, 105, .	4.7	2
63	FROM DAMA/LIBRA TO SUPER-KAMIOKANDE. , 2009, , .		1
64	Dark matter through the quark vector current portal. Pramana - Journal of Physics, 2020, 94, 1.	1.8	1
65	PROBING ISOSPIN-VIOLATING DARK MATTER. International Journal of Modern Physics Conference Series, 2012, 10, 115-122.	0.7	0