Dan Hooper

List of Publications by Citations

161 papers	12,264 citations	53 h-index	108 g-index
167 ext. papers	13,537 ext. citations	5.7 avg, IF	7.12 L-index

#	Paper	IF	Citations
161	Particle dark matter: evidence, candidates and constraints. *Physics Reports*, **2005**, 405, 279-390	27.7	2834
160	Dark matter annihilation in the Galactic Center as seen by the Fermi Gamma Ray Space Telescope. *Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics*, **2011**, 697, 412-428	4.2	548
159	Pulsars as the sources of high energy cosmic ray positrons. *Journal of Cosmology and Astroparticle Physics*, **2009**, 2009, 025-025	6.4	430
158	Origin of the gamma rays from the Galactic Center. *Physical Review D*, **2011**, 84,	4.9	346
157	MeV dark matter: has it been detected?. *Physical Review Letters*, **2004**, 92, 101301	7.4	334
156	The characterization of the gamma-ray signal from the central Milky Way: A case for annihilating dark matter. *Physics of the Dark Universe*, **2016**, 12, 1-23	4.4	323
155	History of dark matter. *Reviews of Modern Physics*, **2018**, 90,	40.5	293
154	Dark matter and collider phenomenology of universal extra dimensions. *Physics Reports*, **2007**, 453, 29-115	27.7	284
153	Two emission mechanisms in the Fermi Bubbles: A possible signal of annihilating dark matter. *Physics of the Dark Universe*, **2013**, 2, 118-138	4.4	242
152	Maverick dark matter at colliders. *Journal of High Energy Physics*, **2010**, 2010, 1	5.4	242
151	Measuring flavor ratios of high-energy astrophysical neutrinos. *Physical Review D*, **2003**, 68,	4.9	173
150	New limits on dark matter annihilation from Alpha Magnetic Spectrometer cosmic ray positron data. *Physical Review Letters*, **2013**, 111, 171101	7.4	155
149	Light neutralino dark matter in the next-to-minimal supersymmetric standard model. *Physical Review D*, **2006**, 73,	4.9	141
148	Possible evidence for dark matter annihilations from the excess microwave emission around the center of the Galaxy seen by the Wilkinson Microwave Anisotropy Probe. *Physical Review D*, **2007**, 76,	4.9	138
147	Simplified dark matter models for the Galactic Center gamma-ray excess. *Physical Review D*, **2014**, 89,	4.9	131
146	Severely Constraining Dark-Matter Interpretations of the 21-cm Anomaly. *Physical Review Letters*, **2018**, 121, 011102	7.4	130
145	Stringent constraints on the dark matter annihilation cross section from the region of the Galactic Center. *Astroparticle Physics*, **2013**, 46, 55-70	2.4	122

144	Millisecond pulsars cannot account for the inner Galaxy's GeV excess. *Physical Review D*, **2013**, 88,	4.9	116
143	Implications of CoGeNT and DAMA for light WIMP dark matter. *Physical Review D*, **2010**, 81,	4.9	111
142	Dark matter and pulsar origins of the rising cosmic ray positron fraction in light of new data from the AMS. *Physical Review D*, **2013**, 88,	4.9	110
141	Toward (finally!) ruling out Z and Higgs mediated dark matter models. *Journal of Cosmology and Astroparticle Physics*, **2016**, 2016, 029-029	6.4	109
140	Consistent dark matter interpretation for CoGeNT and DAMA/LIBRA. *Physical Review D*, **2010**, 82,	4.9	105
139	Deducing the nature of dark matter from direct and indirect detection experiments in the absence of collider signatures of new physics. *Physical Review D*, **2009**, 80,	4.9	105
138	Natural supersymmetric model with MeV dark matter. *Physical Review D*, **2008**, 77,	4.9	89
137	Cosmology with a very light $L_\mu - L_\tau$ gauge boson. *Journal of High Energy Physics*, **2019**, 2019, 1	5.4	88
136	High energy positrons from annihilating dark matter. *Physical Review D*, **2009**, 80,	4.9	81
135	The impact of heavy nuclei on the cosmogenic neutrino flux. *Astroparticle Physics*, **2005**, 23, 11-17	2.4	81
134	Searching for dark matter with future cosmic positron experiments. *Physical Review D*, **2005**, 71,	4.9	81
133	Flavored dark matter and the Galactic Center gamma-ray excess. *Physical Review D*, **2014**, 90,	4.9	80
132	Detecting axionlike particles with gamma ray telescopes. *Physical Review Letters*, **2007**, 99, 231102	7.4	80
131	Possible evidence for axino dark matter in the galactic bulge. *Physical Review D*, **2004**, 70,	4.9	80
130	Challenges in explaining the Galactic Center gamma-ray excess with millisecond pulsars. *Journal of Cosmology and Astroparticle Physics*, **2015**, 2015, 043-043	6.4	79
129	Detecting microscopic black holes with neutrino telescopes. *Physical Review D*, **2002**, 65,	4.9	79
128	Toward a consistent picture for CRESST, CoGeNT, and DAMA. *Physical Review D*, **2012**, 85,	4.9	78
127	PeV-scale dark matter as a thermal relic of a decoupled sector. *Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics*, **2016**, 760, 106-111	4.2	78

126	HAWC observations strongly favor pulsar interpretations of the cosmic-ray positron excess. *Physical Review D*, **2017**, 96,	4.9	77
125	Dark forces and light dark matter. *Physical Review D*, **2012**, 86,	4.9	74
124	The Galactic Center GeV excess from a series of leptonic cosmic-ray outbursts. *Journal of Cosmology and Astroparticle Physics*, **2015**, 2015, 005-005	6.4	73
123	Probing Kaluza-Klein dark matter with neutrino telescopes. *Physical Review D*, **2003**, 67,	4.9	73
122	Thermal dark matter from a highly decoupled sector. *Physical Review D*, **2016**, 94,	4.9	72
121	Hidden sector dark matter models for the Galactic Center gamma-ray excess. *Physical Review D*, **2014**, 90,	4.9	66
120	The intergalactic propagation of ultra-high energy cosmic ray nuclei. *Astroparticle Physics*, **2007**, 27, 199-212	2.4	65
119	Excesses in cosmic ray positron and electron spectra from a nearby clump of neutralino dark matter. *Physical Review D*, **2009**, 79,	4.9	64
118	Kaluza-Klein dark matter and the positron excess. *Physical Review D*, **2004**, 70,	4.9	62
117	A robust excess in the cosmic-ray antiproton spectrum: Implications for annihilating dark matter. *Physical Review D*, **2019**, 99,	4.9	59
116	Possible evidence for MeV dark matter in dwarf spheroidals. *Physical Review Letters*, **2004**, 93, 161302	7.4	59
115	Predictions for the cosmogenic neutrino flux in light of new data from the Pierre Auger Observatory. *Physical Review D*, **2007**, 76,	4.9	58
114	High energy neutrinos from astrophysical accelerators of cosmic ray nuclei. *Astroparticle Physics*, **2008**, 29, 1-13	2.4	56
113	On The gamma-ray emission from Reticulum II and other dwarf galaxies. *Journal of Cosmology and Astroparticle Physics*, **2015**, 2015, 016-016	6.4	55
112	Light Z? bosons at the Tevatron. *Physical Review D*, **2011**, 83,	4.9	55
111	New DAMA dark-matter window and energetic-neutrino searches. *Physical Review D*, **2009**, 79,	4.9	55
110	Nonthermal dark matter mimicking an additional neutrino species in the early universe. *Physical Review D*, **2012**, 85,	4.9	55
109	Dark matter and gamma rays from Draco: MAGIC, GLAST and CACTUS. *Physical Review D*, **2006**, 73,	4.9	55

108	Challenges in detecting gamma-rays from dark matter annihilations in the galactic center. *Physical Review D*, **2006**, 73,	4.9	53
107	Can supersymmetry naturally explain the positron excess?. *Physical Review D*, **2004**, 69,	4.9	52
106	What does the PAMELA antiproton spectrum tell us about dark matter?. *Journal of Cosmology and Astroparticle Physics*, **2015**, 2015, 021-021	6.4	51
105	A predictive analytic model for the solar modulation of cosmic rays. *Physical Review D*, **2016**, 93,	4.9	50
104	MeV dark matter and small scale structure. *Physical Review D*, **2007**, 76,	4.9	50
103	Dark radiation and superheavy dark matter from black hole domination. *Journal of High Energy Physics*, **2019**, 2019, 1	5.4	49
102	Gamma rays from the Galactic center and the WMAP haze. *Physical Review D*, **2011**, 83,	4.9	49
101	Z? mediated dark matter models for the Galactic Center gamma-ray excess. *Physical Review D*, **2015** , 91,	4.9	48
100	Stringent constraints on the dark matter annihilation cross section from subhalo searches with the Fermi Gamma-Ray Space Telescope. *Physical Review D*, **2014**, 89,	4.9	46
99	A leptophobic . *Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics*, **2011**, 703, 343-347	4.2	46
98	How dark matter reionized the Universe. *Physical Review D*, **2009**, 80,	4.9	46
97	Indications of negative evolution for the sources of the highest energy cosmic rays. *Physical Review D*, **2015**, 92,	4.9	45
96	Dark matter subhalos in the Fermi first source catalog. *Physical Review D*, **2010**, 82,	4.9	45
95	Implications of a 130 GeV gamma-ray line for dark matter. *Physical Review D*, **2012**, 86,	4.9	44
94	Constraining the origin of the rising cosmic ray positron fraction with the boron-to-carbon ratio. *Physical Review D*, **2014**, 89,	4.9	43
93	DARK MATTER AND SYNCHROTRON EMISSION FROM GALACTIC CENTER RADIO FILAMENTS. *Astrophysical Journal*, **2011**, 741, 95	4.7	43
92	Searching for MeV-scale gauge bosons with IceCube. *Physical Review D*, **2015**, 92,	4.9	42
91	Extracting the gamma ray signal from dark matter annihilation in the galactic center region. *Physical Review D*, **2008**, 77,	4.9	42

90	Limits on supersymmetric dark matter from EGRET observations of the Galactic center region. *Physical Review D*, **2004**, 70,	4.9	42
89	The empirical case for 10-GeV dark matter. *Physics of the Dark Universe*, **2012**, 1, 1-23	4.4	41
88	PAMELA and ATIC signals from Kaluza-Klein dark matter. *Physical Review D*, **2009**, 79,	4.9	41
87	Using HAWC to discover invisible pulsars. *Physical Review D*, **2017**, 96,	4.9	40
86	Implications of CoGeNT� new results for dark matter. *Physical Review D*, **2011**, 84,	4.9	40
85	Have atmospheric Cerenkov telescopes observed dark matter?. *Journal of Cosmology and Astroparticle Physics*, **2004**, 2004, 002-002	6.4	40
84	Examining The Fermi-LAT Third Source Catalog in search of dark matter subhalos. *Journal of Cosmology and Astroparticle Physics*, **2015**, 2015, 035-035	6.4	38
83	The gamma-ray pulsar population of globular clusters: implications for the GeV excess. *Journal of Cosmology and Astroparticle Physics*, **2016**, 2016, 018-018	6.4	37
82	Cosmogenic photons as a test of ultra-high energy cosmic ray composition. *Astroparticle Physics*, **2011**, 34, 340-343	2.4	37
81	Prospects for detecting dark matter with neutrino telescopes in light of recent results from direct detection experiments. *Physical Review D*, **2006**, 73,	4.9	37
80	Inflatable Dark Matter. *Physical Review Letters*, **2016**, 116, 031303	7.4	36
79	The gamma-ray luminosity function of millisecond pulsars and implications for the GeV excess. *Journal of Cosmology and Astroparticle Physics*, **2016**, 2016, 049-049	6.4	36
78	On the heavy chemical composition of the ultra-high energy cosmic rays. *Astroparticle Physics*, **2010** , 33, 151-159	2.4	36
77	Strategies for Determining the Nature of Dark Matter. *Annual Review of Nuclear and Particle Science*, **2008**, 58, 293-314	15.7	36
76	CoGeNT, DAMA, and light neutralino dark matter. *Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics*, **2011**, 705, 82-86	4.2	35
75	Searching for dark matter subhalos in the Fermi-LAT second source catalog. *Physical Review D*, **2012** , 86,	4.9	34
74	Probing low-x QCD with cosmic neutrinos at the Pierre Auger Observatory. *Physical Review D*, **2006**, 74,	4.9	33
73	Dissecting the gamma-ray background in search of dark matter. *Journal of Cosmology and Astroparticle Physics*, **2014**, 2014, 014-014	6.4	32

72	Neutralinos in an extension of the minimal supersymmetric standard model as the source of the PAMELA positron excess. *Physical Review D*, **2009**, 80,	4.9	32
71	Phenomenology of Dirac neutralino dark matter. *Physical Review D*, **2013**, 88,	4.9	31
70	Inelastic dark matter as an efficient fuel for compact stars. *Physical Review D*, **2010**, 81,	4.9	31
69	Intergalactic propagation of ultrahigh energy cosmic ray nuclei: An analytic approach. *Physical Review D*, **2008**, 77,	4.9	30
68	Contribution of inverse Compton scattering to the diffuse extragalactic gamma-ray background from annihilating dark matter. *Physical Review D*, **2010**, 81,	4.9	29
67	Are there hints of light stops in recent Higgs search results?. *Physical Review D*, **2012**, 86,	4.9	29
66	Pinpointing cosmic ray propagation with the AMS-02 experiment. *Journal of Cosmology and Astroparticle Physics*, **2010**, 2010, 022-022	6.4	29
65	Improved bounds on universal extra dimensions and consequences for Kaluza-Klein dark matter. *Physical Review D*, **2006**, 73,	4.9	29
64	Robust constraints and novel gamma-ray signatures of dark matter that interacts strongly with nucleons. *Physical Review D*, **2018**, 97,	4.9	29
63	Constraints on decaying dark matter from the isotropic gamma-ray background. *Journal of Cosmology and Astroparticle Physics*, **2019**, 2019, 019-019	6.4	28
62	Dark forces at the Tevatron. *Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics*, **2011**, 702, 256-259	4.2	27
61	The isotropic radio background and annihilating dark matter. *Physical Review D*, **2012**, 86,	4.9	27
60	Prospects for detecting dark matter with GLAST in light of the WMAP haze. *Physical Review D*, **2008** , 77,	4.9	26
59	Radio galaxies dominate the high-energy diffuse gamma-ray background. *Journal of Cosmology and Astroparticle Physics*, **2016**, 2016, 019-019	6.4	26
58	Low mass X-ray binaries in the Inner Galaxy: implications for millisecond pulsars and the GeV excess. *Journal of Cosmology and Astroparticle Physics*, **2017**, 2017, 056-056	6.4	25
57	Hidden sector dark matter and the Galactic Center gamma-ray excess: a closer look. *Journal of Cosmology and Astroparticle Physics*, **2017**, 2017, 042-042	6.4	25
56	Warm decaying dark matter and the hubble tension. *Journal of Cosmology and Astroparticle Physics*, **2020**, 2020, 005-005	6.4	24
55	KaluzaKlein dark matter, electrons and gamma-ray telescopes. *Journal of Cosmology and Astroparticle Physics*, **2005**, 2005, 001-001	6.4	24

54	Is the gamma-ray source 3FGL J2212.5+0703 a dark matter subhalo?. *Journal of Cosmology and Astroparticle Physics*, **2016**, 2016, 049-049	6.4	24
53	Gamma rays from dark matter subhalos revisited: refining the predictions and constraints. *Journal of Cosmology and Astroparticle Physics*, **2017**, 2017, 018-018	6.4	23
52	A critical reevaluation of radio constraints on annihilating dark matter. *Physical Review D*, **2015**, 91,	4.9	23
51	Constraining cosmological dark matter annihilation with gamma ray observations. *Physical Review D* , **2009**, 80,	4.9	23
50	The density of dark matter in the Galactic bulge and implications for indirect detection. *Physics of the Dark Universe*, **2017**, 15, 53-56	4.4	22
49	Possible evidence for the stochastic acceleration of secondary antiprotons by supernova remnants. *Physical Review D*, **2017**, 95,	4.9	21
48	Astrophysical uncertainties in the cosmic ray electron and positron spectrum from annihilating dark matter. *Journal of Cosmology and Astroparticle Physics*, **2009**, 2009, 003-003	6.4	20
47	High-energy neutrino signatures of dark matter. *Physical Review D*, **2010**, 81,	4.9	19
46	Can the Inflaton Also Be a Weakly Interacting Massive Particle?. *Physical Review Letters*, **2019**, 122, 091802	7.4	18
45	Possibility of testing the light dark matter hypothesis with the alpha magnetic spectrometer. *Physical Review Letters*, **2013**, 110, 041302	7.4	18
44	Gauge mediated supersymmetry breaking and multi-TeV gamma-rays from the galactic center. *Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics*, **2005**, 608, 17-23	4.2	18
43	Z? mediated WIMPs: dead, dying, or soon to be detected?. *Journal of Cosmology and Astroparticle Physics*, **2019**, 2019, 024-024	6.4	18
42	What can gamma ray bursts teach us about dark energy?. *Astroparticle Physics*, **2007**, 27, 113-118	2.4	17
41	GUT baryogenesis with primordial black holes. *Physical Review D*, **2021**, 103,	4.9	17
40	Superheavy dark matter and ANITA anomalous events. *Physical Review D*, **2019**, 100,	4.9	16
39	Sensitivity of the IceCube neutrino detector to dark matter annihilating in dwarf galaxies. *Physical Review D*, **2010**, 81,	4.9	16
38	Interplay between collider searches for supersymmetric Higgs bosons and direct dark matter experiments. *Physical Review D*, **2007**, 75,	4.9	16
37	Mixed dark matter in left-right symmetric models. *Journal of Cosmology and Astroparticle Physics*, **2016**, 2016, 016-016	6.4	16

36	Measuring the local diffusion coefficient with H.E.S.S. observations of very high-energy electrons. *Physical Review D*, **2018**, 98,	4.9	16
35	Are lines from unassociated gamma-ray sources evidence for dark matter annihilation?. *Physical Review D*, **2012**, 86,	4.9	15
34	Millisecond pulsars, TeV halos, and implications for the Galactic Center gamma-ray excess. *Physical Review D*, **2018**, 98,	4.9	15
33	Constraints on primordial black holes from big bang nucleosynthesis revisited. *Physical Review D*, **2020**, 102,	4.9	14
32	Novel gamma-ray signatures of PeV-scale dark matter. *Journal of Cosmology and Astroparticle Physics*, **2018**, 2018, 060-060	6.4	14
31	Updated collider and direct detection constraints on Dark Matter models for the Galactic Center gamma-ray excess. *Journal of Cosmology and Astroparticle Physics*, **2017**, 2017, 038-038	6.4	13
30	3.55 keV line from exciting dark matter without a hidden sector. *Physical Review D*, **2015**, 91,	4.9	13
29	Revisiting XENON100's constraints (and signals?) for low-mass dark matter. *Journal of Cosmology and Astroparticle Physics*, **2013**, 2013, 035-035	6.4	13
28	Closing supersymmetric resonance regions with direct detection experiments. *Physical Review D*, **2013**, 88,	4.9	13
27	Annihilation signatures of hidden sector dark matter within early-forming microhalos. *Physical Review D*, **2019**, 100,	4.9	13
26	Improving the sensitivity of gamma-ray telescopes to dark matter annihilation in dwarf spheroidal galaxies. *Physical Review D*, **2015**, 91,	4.9	12
25	Comment on Characterizing the population of pulsars in the Galactic bulge with the Fermi large area telescope[arXiv:1705.00009v1]. *Physics of the Dark Universe*, **2018**, 20, 88-94	4.4	12
24	Axion-assisted production of sterile neutrino dark matter. *Physical Review D*, **2017**, 95,	4.9	11
23	Constraining sterile neutrino interpretations of the LSND and MiniBooNE anomalies with coherent neutrino scattering experiments. *Physical Review D*, **2020**, 101,	4.9	10
22	A systematic study of hidden sector dark matter: application to the gamma-ray and antiproton excesses. *Journal of High Energy Physics*, **2020**, 2020, 1	5.4	10
21	TeV gamma rays from Galactic Center pulsars. *Physics of the Dark Universe*, **2018**, 21, 40-46	4.4	8
20	Particle Dark Matter **2010**,		8
19	PAMELA, FGST and sub-TeV dark matter. *Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics*, **2010**, 691, 18-31	4.2	6

18	Resolving dark matter subhalos with future sub-GeV gamma-ray telescopes. *Physics of the Dark Universe*, **2018**, 21, 1-7	4.4	5
17	Dark matter elastic scattering through Higgs loops. *Physical Review D*, **2015**, 92,	4.9	5
16	Neutralino dark matter and trilepton searches in the MSSM. *Physical Review D*, **2008**, 77,	4.9	5
15	Dark matter and collider phenomenology with two light supersymmetric Higgs bosons. *Physical Review D*, **2005**, 72,	4.9	5
14	Pierre Auger data, photons, and top-down cosmic ray models. *Physical Review D*, **2006**, 73,	4.9	5
13	The highest energy HAWC sources are likely leptonic and powered by pulsars. *Journal of Cosmology and Astroparticle Physics*, **2021**, 2021, 010	6.4	5
12	Antideuterons and antihelium nuclei from annihilating dark matter. *Physical Review D*, **2020**, 102,	4.9	4
11	Testing the dark matter origin of the WMAP-Planck haze with radio observations of spiral galaxies. *Journal of Cosmology and Astroparticle Physics*, **2013**, 2013, 026-026	6.4	4
10	Neutralino dark matter as the source of the WMAP haze. *Physical Review D*, **2008**, 78,	4.9	4
9	What the Tevatron found?. *Journal of High Energy Physics*, **2011**, 2011, 1	5.4	3
8	Theories of particle dark matter. *Comptes Rendus Physique*, **2012**, 13, 719-723	1.4	2
7	Probing exotic physics with cosmic neutrinos. *European Physical Journal D*, **2006**, 56, A337-A347		2
6	THE EFFECTS OF DARK MATTER ANNIHILATION ON COSMIC REIONIZATION. *Astrophysical Journal*, **2016**, 833, 162	4.7	2
5	Life versus dark energy: How an advanced civilization could resist the accelerating expansion of the universe. *Physics of the Dark Universe*, **2018**, 22, 74-79	4.4	2
4	511 keV excess and primordial black holes. *Physical Review D*, **2021**, 104,	4.9	2
3	Implications of a large Bs-□□branching fraction for the minimal supersymmetric standard model. *Physical Review D*, **2012**, 85,	4.9	1
2	Simplest and Most Predictive Model of Muon g-2 and Thermal Dark Matter.. *Physical Review Letters*, **2022**, 128, 141802	7.4	0
1	PARTICLES AS DARK MATTER **2011**, 241-268		