Dan Hooper

List of Publications by Year
in descending order

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167 papers	14,920 citations	24978 57 h-index	18075 120 g-index
167 all docs	167 docs citations	167 times ranked	10537 citing authors

#	Article	IF	Citations
1	Particle dark matter: evidence, candidates and constraints. Physics Reports, 2005, 405, 279-390.	10.3	3,454
2	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.	1.5	635
3	History of dark matter. Reviews of Modern Physics, 2018, 90, .	16.4	578
4	Pulsars as the sources of high energy cosmic ray positrons. Journal of Cosmology and Astroparticle Physics, 2009, 2009, 025-025.	1.9	473
5	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.	1.8	405
6	Origin of the gamma rays from the Galactic Center. Physical Review D, 2011, 84, .	1.6	386
7	MeV Dark Matter: Has It Been Detected?. Physical Review Letters, 2004, 92, 101301.	2.9	369
8	Dark matter and collider phenomenology of universal extra dimensions. Physics Reports, 2007, 453, 29-115.	10.3	313
9	Two emission mechanisms in the Fermi Bubbles: A possible signal of annihilating dark matter. Physics of the Dark Universe, 2013, 2, 118-138.	1.8	262
10	Maverick dark matter at colliders. Journal of High Energy Physics, 2010, 2010, 1.	1.6	257
11	New Limits on Dark Matter Annihilation from Alpha Magnetic Spectrometer Cosmic Ray Positron Data. Physical Review Letters, 2013, 111, 171101.	2.9	193
12	Measuring flavor ratios of high-energy astrophysical neutrinos. Physical Review D, 2003, 68, .	1.6	186
13	Severely Constraining Dark-Matter Interpretations of the 21-cm Anomaly. Physical Review Letters, 2018, 121, 011102.	2.9	168
14	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, .	1.6	156
15	Light neutralino dark matter in the next-to-minimal supersymmetric standard model. Physical Review D, 2006, 73, .	1.6	154
16	Simplified dark matter models for the Galactic Center gamma-ray excess. Physical Review D, 2014, 89, .	1.6	153
17	Cosmology with a very light LÎ¼ â˘' LÏ„ gauge boson. Journal of High Energy Physics, 2019, 2019, 1.	1.6	146
18	Toward (finally!) ruling out Z and Higgs mediated dark matter models. Journal of Cosmology and Astroparticle Physics, 2016, 2016, 029-029.	1.9	135

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19	Stringent constraints on the dark matter annihilation cross section from the region of the Galactic Center. Astroparticle Physics, 2013, 46, 55-70.	1.9	133
20	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, .	1.6	127
21	Millisecond pulsars cannot account for the inner Galaxyâ€™s GeV excess. Physical Review D, 2013, 88, .	1.6	127
22	HAWC observations strongly favor pulsar interpretations of the cosmic-ray positron excess. Physical Review D, 2017, 96, .	1.6	118
23	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, .	1.6	115
24	Implications of CoGeNT and DAMA for light WIMP dark matter. Physical Review D, 2010, 81, .	1.6	115
25	Detecting Axionlike Particles with Gamma Ray Telescopes. Physical Review Letters, 2007, 99, 231102.	2.9	110
26	Natural supersymmetric model with MeV dark matter. Physical Review D, 2008, 77, .	1.6	110
27	Consistent dark matter interpretation for CoGeNT and DAMA/LIBRA. Physical Review D, 2010, 82, .	1.6	110
28	Thermal dark matter from a highly decoupled sector. Physical Review D, 2016, 94, .	1.6	107
29	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.	1.5	106
30	Dark radiation and superheavy dark matter from black hole domination. Journal of High Energy Physics, 2019, 2019, 1.	1.6	99
31	High energy positrons from annihilating dark matter. Physical Review D, 2009, 80, .	1.6	96
32	Challenges in explaining the Galactic Center gamma-ray excess with millisecond pulsars. Journal of Cosmology and Astroparticle Physics, 2015, 2015, 043-043.	1.9	94
33	A robust excess in the cosmic-ray antiproton spectrum: Implications for annihilating dark matter. Physical Review D, 2019, 99, .	1.6	94
34	The impact of heavy nuclei on the cosmogenic neutrino flux. Astroparticle Physics, 2005, 23, 11-17.	1.9	91
35	Detecting microscopic black holes with neutrino telescopes. Physical Review D, 2002, 65, .	1.6	89
36	Possible evidence for axino dark matter in the galactic bulge. Physical Review D, 2004, 70, .	1.6	89

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37	Searching for dark matter with future cosmic positron experiments. Physical Review D, 2005, 71, .	1.6	88
38	The Galactic Center GeV excess from a series of leptonic cosmic-ray outbursts. Journal of Cosmology and Astroparticle Physics, 2015, 2015, 005-005.	1.9	88
39	Flavored dark matter and the Galactic Center gamma-ray excess. Physical Review D, 2014, 90, .	1.6	87
40	Dark forces and light dark matter. Physical Review D, 2012, 86, .	1.6	86
41	Probing Kaluza-Klein dark matter with neutrino telescopes. Physical Review D, 2003, 67, .	1.6	82
42	Using HAWC to discover invisible pulsars. Physical Review D, 2017, 96, .	1.6	81
43	Hidden sector dark matter models for the Galactic Center gamma-ray excess. Physical Review D, 2014, 90, .	1.6	80
44	Toward a consistent picture for CRESST, CoGeNT, and DAMA. Physical Review D, 2012, 85, .	1.6	78
45	The intergalactic propagation of ultra-high energy cosmic ray nuclei. Astroparticle Physics, 2007, 27, 199-212.	1.9	73
46	A predictive analytic model for the solar modulation of cosmic rays. Physical Review D, 2016, 93, .	1.6	72
47	Nonthermal dark matter mimicking an additional neutrino species in the early universe. Physical Review D, 2012, 85, .	1.6	69
48	Excesses in cosmic ray positron and electron spectra from a nearby clump of neutralino dark matter. Physical Review D, 2009, 79, .	1.6	68
49	Kaluza-Klein dark matter and the positron excess. Physical Review D, 2004, 70, .	1.6	67
50	Predictions for the cosmogenic neutrino flux in light of new data from the Pierre Auger Observatory. Physical Review D, 2007, 76, .	1.6	67
51	On The gamma-ray emission from Reticulum II and other dwarf galaxies. Journal of Cosmology and Astroparticle Physics, 2015, 2015, 016-016.	1.9	67
52	What does the PAMELA antiproton spectrum tell us about dark matter?. Journal of Cosmology and Astroparticle Physics, 2015, 2015, 021-021.	1.9	64
53	Possible Evidence for MeV Dark Matter in Dwarf Spheroidals. Physical Review Letters, 2004, 93, 161302.	2.9	60
54	Dark matter and gamma rays from Draco: MAGIC, GLAST and CACTUS. Physical Review D, 2006, 73, .	1.6	60

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55	High energy neutrinos from astrophysical accelerators of cosmic ray nuclei. Astroparticle Physics, 2008, 29, 1-13.	1.9	59
56	Indications of negative evolution for the sources of the highest energy cosmic rays. Physical Review D, 2015, 92, .	1.6	59
57	New DAMA dark-matter window and energetic-neutrino searches. Physical Review D, 2009, 79, .	1.6	58
58	LightZâ€²bosons at the Tevatron. Physical Review D, 2011, 83, .	1.6	58
59	Searching for MeV-scale gauge bosons with IceCube. Physical Review D, 2015, 92, .	1.6	58
60	Challenges in detecting gamma-rays from dark matter annihilations in the galactic center. Physical Review D, 2006, 73, .	1.6	57
61	Stringent constraints on the dark matter annihilation cross section from subhalo searches with the Fermi Gamma-Ray Space Telescope. Physical Review D, 2014, 89, .	1.6	56
62	Constraints on decaying dark matter from the isotropic gamma-ray background. Journal of Cosmology and Astroparticle Physics, 2019, 2019, 019-019.	1.9	56
63	MeV dark matter and small scale structure. Physical Review D, 2007, 76, .	1.6	55
64	Constraining the origin of the rising cosmic ray positron fraction with the boron-to-carbon ratio. Physical Review D, 2014, 89, .	1.6	55
65	Can supersymmetry naturally explain the positron excess?. Physical Review D, 2004, 69, .	1.6	54
66	Dark matter subhalos in the Fermi first source catalog. Physical Review D, 2010, 82, .	1.6	53
67	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msup><mml:mrow><mml:mi>Z</mml:mi></mml:mrow><mml:mrow><mml:mo>â€²</mml:mo></m dark matter models for the Galactic Center gamma-ray excess. Physical Review D, 2015, 91, .	1.6	52
68	The gamma-ray pulsar population of globular clusters: implications for the GeV excess. Journal of Cosmology and Astroparticle Physics, 2016, 2016, 018-018.	1.9	52
69	Robust constraints and novel gamma-ray signatures of dark matter that interacts strongly with nucleons. Physical Review D, 2018, 97, .	1.6	52
70	How dark matter reionized the Universe. Physical Review D, 2009, 80, .	1.6	51
71	Gamma rays from the Galactic center and the WMAP haze. Physical Review D, 2011, 83, .	1.6	51
72	Examining The Fermi-LAT Third Source Catalog in search of dark matter subhalos. Journal of Cosmology and Astroparticle Physics, 2015, 2015, 035-035.	1.9	49

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73	Limits on supersymmetric dark matter from EGRET observations of the Galactic center region. Physical Review D, 2004, 70, .	1.6	48
74	Extracting the gamma ray signal from dark matter annihilation in the galactic center region. Physical Review D, 2008, 77, .	1.6	48
75	Inflatable Dark Matter. Physical Review Letters, 2016, 116, 031303.	2.9	48
76	A leptophobic <mml:math altimg="si1.gif" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://www.elsevier.com/x	1.5	47
77	The empirical case for 10-GeV dark matter. Physics of the Dark Universe, 2012, 1, 1-23.	1.8	47
78	PAMELA and ATIC signals from Kaluza-Klein dark matter. Physical Review D, 2009, 79, .	1.6	46
79	DARK MATTER AND SYNCHROTRON EMISSION FROM GALACTIC CENTER RADIO FILAMENTS. Astrophysical Journal, 2011, 741, 95.	1.6	46
80	The gamma-ray luminosity function of millisecond pulsars and implications for the GeV excess. Journal of Cosmology and Astroparticle Physics, 2016, 2016, 049-049.	1.9	46
81	Implications of a 130ÂGeV gamma-ray line for dark matter. Physical Review D, 2012, 86, .	1.6	45
82	Strategies for Determining the Nature of Dark Matter. Annual Review of Nuclear and Particle Science, 2008, 58, 293-314.	3.5	44
83	Implications of CoGeNTâ€™s new results for dark matter. Physical Review D, 2011, 84, .	1.6	43
84	GUT baryogenesis with primordial black holes. Physical Review D, 2021, 103, .	1.6	43
85	Cosmogenic photons as a test of ultra-high energy cosmic ray composition. Astroparticle Physics, 2011, 34, 340-343.	1.9	42
86	Have atmospheric Cerenkov telescopes observed dark matter?. Journal of Cosmology and Astroparticle Physics, 2004, 2004, 002-002.	1.9	41
87	Prospects for detecting dark matter with neutrino telescopes in light of recent results from direct detection experiments. Physical Review D, 2006, 73, .	1.6	41
88	On the heavy chemical composition of the ultra-high energy cosmic rays. Astroparticle Physics, 2010, 33, 151-159.	1.9	41
89	Searching for dark matter subhalos in the Fermi-LAT second source catalog. Physical Review D, 2012, 86, .	1.6	41
90	Warm decaying dark matter and the hubble tension. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 005-005.	1.9	41

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91	Inelastic dark matter as an efficient fuel for compact stars. Physical Review D, 2010, 81, .	1.6	39
92	Dissecting the gamma-ray background in search of dark matter. Journal of Cosmology and Astroparticle Physics, 2014, 2014, 014-014.	1.9	37
93	Probing low-xQCD with cosmic neutrinos at the Pierre Auger Observatory. Physical Review D, 2006, 74, .	1.6	36
94	Pinpointing cosmic ray propagation with the AMS-02 experiment. Journal of Cosmology and Astroparticle Physics, 2010, 2010, 022-022.	1.9	36
95	CoGeNT, DAMA, and light neutralino dark matter. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 705, 82-86.	1.5	35
96	Contribution of inverse Compton scattering to the diffuse extragalactic gamma-ray background from annihilating dark matter. Physical Review D, 2010, 81, .	1.6	33
97	The isotropic radio background and annihilating dark matter. Physical Review D, 2012, 86, .	1.6	33
98	Phenomenology of Dirac neutralino dark matter. Physical Review D, 2013, 88, .	1.6	33
99	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.	1.9	33
100	Neutralinos in an extension of the minimal supersymmetric standard model as the source of the PAMELA positron excess. Physical Review D, 2009, 80, .	1.6	32
101	Millisecond pulsars, TeV halos, and implications for the Galactic Center gamma-ray excess. Physical Review D, 2018, 98, .	1.6	32
102	Constraints on primordial black holes from big bang nucleosynthesis revisited. Physical Review D, 2020, 102, .	1.6	32
103	Improved bounds on universal extra dimensions and consequences for Kaluza-Klein dark matter. Physical Review D, 2006, 73, .	1.6	31
104	Intergalactic propagation of ultrahigh energy cosmic ray nuclei: An analytic approach. Physical Review D, 2008, 77, .	1.6	31
105	Radio galaxies dominate the high-energy diffuse gamma-ray background. Journal of Cosmology and Astroparticle Physics, 2016, 2016, 019-019.	1.9	31
106	Is the gamma-ray source 3FGL J2212.5+0703 a dark matter subhalo?. Journal of Cosmology and Astroparticle Physics, 2016, 2016, 049-049.	1.9	31
107	Gamma rays from dark matter subhalos revisited: refining the predictions and constraints. Journal of Cosmology and Astroparticle Physics, 2017, 2017, 018-018.	1.9	30
108	Possible evidence for the stochastic acceleration of secondary antiprotons by supernova remnants. Physical Review D, 2017, 95, .	1.6	30

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109	Prospects for detecting dark matter with GLAST in light of the WMAP haze. Physical Review D, 2008, 77, .	1.6	29
110	Are there hints of light stops in recent Higgs search results?. Physical Review D, 2012, 86, .	1.6	29
111	Hidden sector dark matter and the Galactic Center gamma-ray excess: a closer look. Journal of Cosmology and Astroparticle Physics, 2017, 2017, 042-042.	1.9	28
112	Dark forces at the Tevatron. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 702, 256-259.	1.5	27
113	Annihilation signatures of hidden sector dark matter within early-forming microhalos. Physical Review D, 2019, 100, .	1.6	27
114	<i>Z</i>â€² mediated WIMPs: dead, dying, or soon to be detected?. Journal of Cosmology and Astroparticle Physics, 2019, 2019, 024-024.	1.9	27
115	Kaluzaâ€"Klein dark matter, electrons and gamma-ray telescopes. Journal of Cosmology and Astroparticle Physics, 2005, 2005, 001-001.	1.9	26
116	A critical reevaluation of radio constraints on annihilating dark matter. Physical Review D, 2015, 91, .	1.6	26
117	Measuring the local diffusion coefficient with H.E.S.S. observations of very high-energy electrons. Physical Review D, 2018, 98, .	1.6	26
118	Constraining cosmological dark matter annihilation with gamma ray observations. Physical Review D, 2009, 80, .	1.6	25
119	The density of dark matter in the Galactic bulge and implications for indirect detection. Physics of the Dark Universe, 2017, 15, 53-56.	1.8	25
120	Can the Inflaton Also Be a Weakly Interacting Massive Particle?. Physical Review Letters, 2019, 122, 091802.	2.9	25
121	The highest energy HAWC sources are likely leptonic and powered by pulsars. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 010.	1.9	24
122	Constraining sterile neutrino interpretations of the LSND and MiniBooNE anomalies with coherent neutrino scattering experiments. Physical Review D, 2020, 101, .	1.6	23
123	What can gamma ray bursts teach us about dark energy?. Astroparticle Physics, 2007, 27, 113-118.	1.9	22
124	High-energy neutrino signatures of dark matter. Physical Review D, 2010, 81, .	1.6	22
125	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.	1.5	21
126	Astrophysical uncertainties in the cosmic ray electron and positron spectrum from annihilating dark matter. Journal of Cosmology and Astroparticle Physics, 2009, 2009, 003-003.	1.9	21

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127	Axion-assisted production of sterile neutrino dark matter. Physical Review D, 2017, 95, .	1.6	21
128	Superheavy dark matter and ANITAâ€™s anomalous events. Physical Review D, 2019, 100, .	1.6	21
129	A systematic study of hidden sector dark matter: application to the gamma-ray and antiproton excesses. Journal of High Energy Physics, 2020, 2020, 1.	1.6	21
130	Possibility of Testing the Light Dark Matter Hypothesis with the Alpha Magnetic Spectrometer. Physical Review Letters, 2013, 110, 041302.	2.9	20
131	Sensitivity of the IceCube neutrino detector to dark matter annihilating in dwarf galaxies. Physical Review D, 2010, 81, .	1.6	18
132	Interplay between collider searches for supersymmetric Higgs bosons and direct dark matter experiments. Physical Review D, 2007, 75, .	1.6	17
133	Novel gamma-ray signatures of PeV-scale dark matter. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 060-060.	1.9	17
134	Are lines from unassociated gamma-ray sources evidence for dark matter annihilation?. Physical Review D, 2012, 86, .	1.6	16
135	Improving the sensitivity of gamma-ray telescopes to dark matter annihilation in dwarf spheroidal galaxies. Physical Review D, 2015, 91, .	1.6	16
136	Mixed dark matter in left-right symmetric models. Journal of Cosmology and Astroparticle Physics, 2016, 2016, 016-016.	1.9	16
137	Simplest and Most Predictive Model of Muon <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>g</mml:mi><mml:mo>â^'</mml:mo><mml:mn>2</mml:mn></mml:math> and Thermal Dark Matter. Physical Review Letters, 2022, 128, 141802.	2.9	16
138	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.	1.9	15
139	Comment on â€œCharacterizing the population of pulsars in the Galactic bulge with the Fermi large area telescopeâ€•[arXiv:1705.00009v1]. Physics of the Dark Universe, 2018, 20, 88-94.	1.8	15
140	Evidence of TeV halos around millisecond pulsars. Physical Review D, 2022, 105, .	1.6	15
141	Revisiting XENON100's constraints (and signals?) for low-mass dark matter. Journal of Cosmology and Astroparticle Physics, 2013, 2013, 035-035.	1.9	14
142	Closing supersymmetric resonance regions with direct detection experiments. Physical Review D, 2013, 88, .	1.6	14
143	Particle Dark Matter. , 2010, , .		13
144	3.55Â keV line from exciting dark matter without a hidden sector. Physical Review D, 2015, 91, .	1.6	13

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145	TeV gamma rays from Galactic Center pulsars. Physics of the Dark Universe, 2018, 21, 40-46.	1.8	11
146	511ÂkeV excess and primordial black holes. Physical Review D, 2021, 104, .	1.6	11
147	Antideuterons and antihelium nuclei from annihilating dark matter. Physical Review D, 2020, 102, .	1.6	9
148	Neutralino dark matter and trilepton searches in the MSSM. Physical Review D, 2008, 77, .	1.6	7
149	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.	1.9	7
150	Resolving dark matter subhalos with future sub-GeV gamma-ray telescopes. Physics of the Dark Universe, 2018, 21, 1-7.	1.8	7
151	Resurrecting the fraternal twin WIMP miracle. Physical Review D, 2022, 105, .	1.6	7
152	Pierre Auger data, photons, and top-down cosmic ray models. Physical Review D, 2006, 73, .	1.6	6
153	PAMELA, FGST and sub-TeV dark matter. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 691, 18-31.	1.5	6
154	Dark matter and collider phenomenology with two light supersymmetric Higgs bosons. Physical Review D, 2005, 72, .	1.6	5
155	Dark matter elastic scattering through Higgs loops. Physical Review D, 2015, 92, .	1.6	5
156	Neutralino dark matter as the source of the WMAP haze. Physical Review D, 2008, 78, .	1.6	4
157	What the Tevatron found?. Journal of High Energy Physics, 2011, 2011, 1.	1.6	4
158	Theories of particle dark matter. Comptes Rendus Physique, 2012, 13, 719-723.	0.3	3
159	Probing exotic physics with cosmic neutrinos. European Physical Journal D, 2006, 56, A337-A347.	0.4	2
160	THE EFFECTS OF DARK MATTER ANNIHILATION ON COSMIC REIONIZATION. Astrophysical Journal, 2016, 833, 162.	1.6	2
161	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.	1.8	2
162	Many birds, one stone. Nature Physics, 2009, 5, 176-177.	6.5	1

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163	Implications of a largeBsâ†'Î¼+Î¼â^'branching fraction for the minimal supersymmetric standard model. Physical Review D, 2012, 85, .	1.6	1
164	Contribution from TeV halos to the isotropic gamma-ray background. Physical Review D, 2022, 106, .	1.6	1
165	STUDYING SUPERSYMMETRY WITH DARK MATTER EXPERIMENTS. , 2007, , .		0
166	Propagation of galactic cosmic rays and the AMS-02 experiment. , 2011, , .		0
167	PARTICLES AS DARK MATTER. , 2011, , 241-268.		0