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	Resurrecting the fraternal twin WIMP miracle. Physical Review D, 2022, 105, .	1.6	7
2	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
3	Evidence of TeV halos around millisecond pulsars. Physical Review D, 2022, 105, .	1.6	15
4	Contribution from TeV halos to the isotropic gamma-ray background. Physical Review D, 2022, 106, .	1.6	1
5	GUT baryogenesis with primordial black holes. Physical Review D, 2021, 103, .	1.6	43
6	The highest energy HAWC sources are likely leptonic and powered by pulsars. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 010.	1.9	24
7	511ÂkeV excess and primordial black holes. Physical Review D, 2021, 104, .	1.6	11
8	Constraining sterile neutrino interpretations of the LSND and MiniBooNE anomalies with coherent neutrino scattering experiments. Physical Review D, 2020, 101, .	1.6	23
9	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
10	Constraints on primordial black holes from big bang nucleosynthesis revisited. Physical Review D, 2020, 102, .	1.6	32
11	Antideuterons and antihelium nuclei from annihilating dark matter. Physical Review D, 2020, 102, .	1.6	9
12	Warm decaying dark matter and the hubble tension. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 005-005.	1.9	41
13	Dark radiation and superheavy dark matter from black hole domination. Journal of High Energy Physics, 2019, 2019, 1.	1.6	99
14	Superheavy dark matter and ANITAâ€™s anomalous events. Physical Review D, 2019, 100, .	1.6	21
15	A robust excess in the cosmic-ray antiproton spectrum: Implications for annihilating dark matter. Physical Review D, 2019, 99, .	1.6	94
16	Can the Inflaton Also Be a Weakly Interacting Massive Particle?. Physical Review Letters, 2019, 122, 091802.	2.9	25
17	Cosmology with a very light LÎ¼ â^' LÏ„ gauge boson. Journal of High Energy Physics, 2019, 2019, 1.	1.6	146
18	Constraints on decaying dark matter from the isotropic gamma-ray background. Journal of Cosmology and Astroparticle Physics, 2019, 2019, 019-019.	1.9	56

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19	Annihilation signatures of hidden sector dark matter within early-forming microhalos. Physical Review D, 2019, 100, .	1.6	27
20	Zâ€² mediated WIMPs: dead, dying, or soon to be detected?. Journal of Cosmology and Astroparticle Physics, 2019, 2019, 024-024.	1.9	27
21	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
22	Novel gamma-ray signatures of PeV-scale dark matter. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 060-060.	1.9	17
23	Millisecond pulsars, TeV halos, and implications for the Galactic Center gamma-ray excess. Physical Review D, 2018, 98, .	1.6	32
24	Robust constraints and novel gamma-ray signatures of dark matter that interacts strongly with nucleons. Physical Review D, 2018, 97, .	1.6	52
25	Measuring the local diffusion coefficient with H.E.S.S. observations of very high-energy electrons. Physical Review D, 2018, 98, .	1.6	26
26	History of dark matter. Reviews of Modern Physics, 2018, 90, .	16.4	578
27	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
28	Severely Constraining Dark-Matter Interpretations of the 21-cm Anomaly. Physical Review Letters, 2018, 121, 011102.	2.9	168
29	TeV gamma rays from Galactic Center pulsars. Physics of the Dark Universe, 2018, 21, 40-46.	1.8	11
30	Resolving dark matter subhalos with future sub-GeV gamma-ray telescopes. Physics of the Dark Universe, 2018, 21, 1-7.	1.8	7
31	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
32	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
33	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
34	Possible evidence for the stochastic acceleration of secondary antiprotons by supernova remnants. Physical Review D, 2017, 95, .	1.6	30
35	Using HAWC to discover invisible pulsars. Physical Review D, 2017, 96, .	1.6	81
36	HAWC observations strongly favor pulsar interpretations of the cosmic-ray positron excess. Physical Review D, 2017, 96, .	1.6	118

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37	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
38	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
39	Axion-assisted production of sterile neutrino dark matter. Physical Review D, 2017, 95, .	1.6	21
40	Toward (finally!) ruling out Z and Higgs mediated dark matter models. Journal of Cosmology and Astroparticle Physics, 2016, 2016, 029-029.	1.9	135
41	Radio galaxies dominate the high-energy diffuse gamma-ray background. Journal of Cosmology and Astroparticle Physics, 2016, 2016, 019-019.	1.9	31
42	THE EFFECTS OF DARK MATTER ANNIHILATION ON COSMIC REIONIZATION. Astrophysical Journal, 2016, 833, 162.	1.6	2
43	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
44	Mixed dark matter in left-right symmetric models. Journal of Cosmology and Astroparticle Physics, 2016, 2016, 016-016.	1.9	16
45	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
46	A predictive analytic model for the solar modulation of cosmic rays. Physical Review D, 2016, 93, .	1.6	72
47	Inflatable Dark Matter. Physical Review Letters, 2016, 116, 031303.	2.9	48
48	Thermal dark matter from a highly decoupled sector. Physical Review D, 2016, 94, .	1.6	107
49	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
50	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
51	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
52	A critical reevaluation of radio constraints on annihilating dark matter. Physical Review D, 2015, 91, .	1.6	26
53	Indications of negative evolution for the sources of the highest energy cosmic rays. Physical Review D, 2015, 92, .	1.6	59
54	Searching for MeV-scale gauge bosons with IceCube. Physical Review D, 2015, 92, .	1.6	58

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55	Dark matter elastic scattering through Higgs loops. Physical Review D, 2015, 92, .	1.6	5
56	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
57	3.55ÂkeV line from exciting dark matter without a hidden sector. Physical Review D, 2015, 91, .	1.6	13
58	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
59	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
60	Improving the sensitivity of gamma-ray telescopes to dark matter annihilation in dwarf spheroidal galaxies. Physical Review D, 2015, 91, .	1.6	16
61	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
62	<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 dark matter models for the Galactic Center gamma-ray excess. Physical Review D, 2015, 91, .	1.6	51
63	What does the PAMELA antiproton spectrum tell us about dark matter?. Journal of Cosmology and Astroparticle Physics, 2015, 2015, 021-021.	1.9	64
64	Dissecting the gamma-ray background in search of dark matter. Journal of Cosmology and Astroparticle Physics, 2014, 2014, 014-014.	1.9	37
65	Flavored dark matter and the Galactic Center gamma-ray excess. Physical Review D, 2014, 90, .	1.6	87
66	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
67	Constraining the origin of the rising cosmic ray positron fraction with the boron-to-carbon ratio. Physical Review D, 2014, 89, .	1.6	55
68	Simplified dark matter models for the Galactic Center gamma-ray excess. Physical Review D, 2014, 89, .	1.6	153
69	Hidden sector dark matter models for the Galactic Center gamma-ray excess. Physical Review D, 2014, 90, .	1.6	80
70	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
71	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
72	Revisiting XENON100's constraints (and signals?) for low-mass dark matter. Journal of Cosmology and Astroparticle Physics, 2013, 2013, 035-035.	1.9	14

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73	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
74	Closing supersymmetric resonance regions with direct detection experiments. Physical Review D, 2013, 88, .	1.6	14
75	New Limits on Dark Matter Annihilation from Alpha Magnetic Spectrometer Cosmic Ray Positron Data. Physical Review Letters, 2013, 111, 171101.	2.9	193
76	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
77	Phenomenology of Dirac neutralino dark matter. Physical Review D, 2013, 88, .	1.6	33
78	Possibility of Testing the Light Dark Matter Hypothesis with the Alpha Magnetic Spectrometer. Physical Review Letters, 2013, 110, 041302.	2.9	20
79	Millisecond pulsars cannot account for the inner Galaxyâ€™s GeV excess. Physical Review D, 2013, 88, .	1.6	127
80	The isotropic radio background and annihilating dark matter. Physical Review D, 2012, 86, .	1.6	33
81	Searching for dark matter subhalos in the Fermi-LAT second source catalog. Physical Review D, 2012, 86, .	1.6	41
82	Are lines from unassociated gamma-ray sources evidence for dark matter annihilation?. Physical Review D, 2012, 86, .	1.6	16
83	Nonthermal dark matter mimicking an additional neutrino species in the early universe. Physical Review D, 2012, 85, .	1.6	69
84	Implications of a 130ÂGeV gamma-ray line for dark matter. Physical Review D, 2012, 86, .	1.6	45
85	Are there hints of light stops in recent Higgs search results?. Physical Review D, 2012, 86, .	1.6	29
86	Toward a consistent picture for CRESST, CoGeNT, and DAMA. Physical Review D, 2012, 85, .	1.6	78
87	Dark forces and light dark matter. Physical Review D, 2012, 86, .	1.6	86
88	The empirical case for 10-GeV dark matter. Physics of the Dark Universe, 2012, 1, 1-23.	1.8	47
89	Implications of a largeBsâ†'Î¼+Î¼âˆ'branching fraction for the minimal supersymmetric standard model. Physical Review D, 2012, 85, .	1.6	1
90	Theories of particle dark matter. Comptes Rendus Physique, 2012, 13, 719-723.	0.3	3

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91	Origin of the gamma rays from the Galactic Center. Physical Review D, 2011, 84, .	1.6	386
92	LightZâ€²bosons at the Tevatron. Physical Review D, 2011, 83, .	1.6	58
93	DARK MATTER AND SYNCHROTRON EMISSION FROM GALACTIC CENTER RADIO FILAMENTS. Astrophysical Journal, 2011, 741, 95.	1.6	46
94	Dark forces at the Tevatron. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 702, 256-259.	1.5	27
95	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
96	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
97	What the Tevatron found?. Journal of High Energy Physics, 2011, 2011, 1.	1.6	4
98	Cosmogenic photons as a test of ultra-high energy cosmic ray composition. Astroparticle Physics, 2011, 34, 340-343.	1.9	42
99	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
100	Implications of CoGeNTâ€™s new results for dark matter. Physical Review D, 2011, 84, .	1.6	43
101	Gamma rays from the Galactic center and the WMAP haze. Physical Review D, 2011, 83, .	1.6	51
102	Propagation of galactic cosmic rays and the AMS-02 experiment. , 2011, , .		0
103	PARTICLES AS DARK MATTER. , 2011, , 241-268.		0
104	Pinpointing cosmic ray propagation with the AMS-02 experiment. Journal of Cosmology and Astroparticle Physics, 2010, 2010, 022-022.	1.9	36
105	Particle Dark Matter. , 2010, , .		13
106	Maverick dark matter at colliders. Journal of High Energy Physics, 2010, 2010, 1.	1.6	257
107	On the heavy chemical composition of the ultra-high energy cosmic rays. Astroparticle Physics, 2010, 33, 151-159.	1.9	41
108	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

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109	Implications of CoGeNT and DAMA for light WIMP dark matter. Physical Review D, 2010, 81, .	1.6	115
110	Consistent dark matter interpretation for CoGeNT and DAMA/LIBRA. Physical Review D, 2010, 82, .	1.6	110
111	High-energy neutrino signatures of dark matter. Physical Review D, 2010, 81, .	1.6	22
112	Sensitivity of the IceCube neutrino detector to dark matter annihilating in dwarf galaxies. Physical Review D, 2010, 81, .	1.6	18
113	Inelastic dark matter as an efficient fuel for compact stars. Physical Review D, 2010, 81, .	1.6	39
114	Contribution of inverse Compton scattering to the diffuse extragalactic gamma-ray background from annihilating dark matter. Physical Review D, 2010, 81, .	1.6	33
115	Dark matter subhalos in the Fermi first source catalog. Physical Review D, 2010, 82, .	1.6	53
116	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
117	Many birds, one stone. Nature Physics, 2009, 5, 176-177.	6.5	1
118	New DAMA dark-matter window and energetic-neutrino searches. Physical Review D, 2009, 79, .	1.6	58
119	PAMELA and ATIC signals from Kaluza-Klein dark matter. Physical Review D, 2009, 79, .	1.6	46
120	Excesses in cosmic ray positron and electron spectra from a nearby clump of neutralino dark matter. Physical Review D, 2009, 79, .	1.6	68
121	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
122	Constraining cosmological dark matter annihilation with gamma ray observations. Physical Review D, 2009, 80, .	1.6	25
123	How dark matter reionized the Universe. Physical Review D, 2009, 80, .	1.6	51
124	High energy positrons from annihilating dark matter. Physical Review D, 2009, 80, .	1.6	96
125	Pulsars as the sources of high energy cosmic ray positrons. Journal of Cosmology and Astroparticle Physics, 2009, 2009, 025-025.	1.9	473
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	High energy neutrinos from astrophysical accelerators of cosmic ray nuclei. Astroparticle Physics, 2008, 29, 1-13.	1.9	59
128	Strategies for Determining the Nature of Dark Matter. Annual Review of Nuclear and Particle Science, 2008, 58, 293-314.	3.5	44
129	Prospects for detecting dark matter with GLAST in light of the WMAP haze. Physical Review D, 2008, 77, .	1.6	29
130	Natural supersymmetric model with MeV dark matter. Physical Review D, 2008, 77, .	1.6	110
131	Extracting the gamma ray signal from dark matter annihilation in the galactic center region. Physical Review D, 2008, 77, .	1.6	48
132	Neutralino dark matter and trilepton searches in the MSSM. Physical Review D, 2008, 77, .	1.6	7
133	Neutralino dark matter as the source of the WMAP haze. Physical Review D, 2008, 78, .	1.6	4
134	Intergalactic propagation of ultrahigh energy cosmic ray nuclei: An analytic approach. Physical Review D, 2008, 77, .	1.6	31
135	Detecting Axionlike Particles with Gamma Ray Telescopes. Physical Review Letters, 2007, 99, 231102.	2.9	110
136	Predictions for the cosmogenic neutrino flux in light of new data from the Pierre Auger Observatory. Physical Review D, 2007, 76, .	1.6	67
137	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
138	Interplay between collider searches for supersymmetric Higgs bosons and direct dark matter experiments. Physical Review D, 2007, 75, .	1.6	17
139	MeV dark matter and small scale structure. Physical Review D, 2007, 76, .	1.6	55
140	Dark matter and collider phenomenology of universal extra dimensions. Physics Reports, 2007, 453, 29-115.	10.3	313
141	What can gamma ray bursts teach us about dark energy?. Astroparticle Physics, 2007, 27, 113-118.	1.9	22
142	The intergalactic propagation of ultra-high energy cosmic ray nuclei. Astroparticle Physics, 2007, 27, 199-212.	1.9	73
143	STUDYING SUPERSYMMETRY WITH DARK MATTER EXPERIMENTS. , 2007, , .		0
144	Challenges in detecting gamma-rays from dark matter annihilations in the galactic center. Physical Review D, 2006, 73, .	1.6	57

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145	Probing low-xQCD with cosmic neutrinos at the Pierre Auger Observatory. Physical Review D, 2006, 74, .	1.6	36
146	Light neutralino dark matter in the next-to-minimal supersymmetric standard model. Physical Review D, 2006, 73, .	1.6	154
147	Pierre Auger data, photons, and top-down cosmic ray models. Physical Review D, 2006, 73, .	1.6	6
148	Improved bounds on universal extra dimensions and consequences for Kaluza-Klein dark matter. Physical Review D, 2006, 73, .	1.6	31
149	Dark matter and gamma rays from Draco: MAGIC, GLAST and CACTUS. Physical Review D, 2006, 73, .	1.6	60
150	Probing exotic physics with cosmic neutrinos. European Physical Journal D, 2006, 56, A337-A347.	0.4	2
151	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
152	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
153	Particle dark matter: evidence, candidates and constraints. Physics Reports, 2005, 405, 279-390.	10.3	3,454
154	The impact of heavy nuclei on the cosmogenic neutrino flux. Astroparticle Physics, 2005, 23, 11-17.	1.9	91
155	Kaluzaâ€“Klein dark matter, electrons and gamma-ray telescopes. Journal of Cosmology and Astroparticle Physics, 2005, 2005, 001-001.	1.9	26
156	Searching for dark matter with future cosmic positron experiments. Physical Review D, 2005, 71, .	1.6	88
157	Dark matter and collider phenomenology with two light supersymmetric Higgs bosons. Physical Review D, 2005, 72, .	1.6	5
158	Have atmospheric Cerenkov telescopes observed dark matter?. Journal of Cosmology and Astroparticle Physics, 2004, 2004, 002-002.	1.9	41
159	Kaluza-Klein dark matter and the positron excess. Physical Review D, 2004, 70, .	1.6	67
160	Limits on supersymmetric dark matter from EGRET observations of the Galactic center region. Physical Review D, 2004, 70, .	1.6	48
161	Possible evidence for axino dark matter in the galactic bulge. Physical Review D, 2004, 70, .	1.6	89
162	Can supersymmetry naturally explain the positron excess?. Physical Review D, 2004, 69, .	1.6	54

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163	MeV Dark Matter: Has It Been Detected?. Physical Review Letters, 2004, 92, 101301.	2.9	369
164	Possible Evidence for MeV Dark Matter in Dwarf Spheroidals. Physical Review Letters, 2004, 93, 161302.	2.9	60
165	Probing Kaluza-Klein dark matter with neutrino telescopes. Physical Review D, 2003, 67, .	1.6	82
166	Measuring flavor ratios of high-energy astrophysical neutrinos. Physical Review D, 2003, 68, .	1.6	186
167	Detecting microscopic black holes with neutrino telescopes. Physical Review D, 2002, 65, .	1.6	89