Ilias Cholis

List of Publications by Year in descending order

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Ιμλς Ομομις

#	Article	lF	CITATIONS
1	Utilizing cosmic-ray positron and electron observations to probe the averaged properties of MilkyÂWay pulsars. Physical Review D, 2022, 105, .	4.7	13
2	Return of the templates: Revisiting the Galactic Center excess with multimessenger observations. Physical Review D, 2022, 105, .	4.7	30
3	Can Thorne-Żytkow objects source GW190814-type events?. Physical Review D, 2022, 105, .	4.7	3
4	Snowmass2021 theory frontier white paper: Astrophysical and cosmological probes of dark matter. Journal of High Energy Astrophysics, 2022, 35, 112-138.	6.7	20
5	Black holes merging with low mass gap objects inside globular clusters. Physical Review D, 2021, 104, .	4.7	8
6	Antideuterons and antihelium nuclei from annihilating dark matter. Physical Review D, 2020, 102, .	4.7	9
7	Testing the Sensitivity of the Galactic Center Excess to the Point Source Mask. Physical Review Letters, 2020, 124, 231103.	7.8	35
8	Evaluating the merger rate of binary black holes from direct captures and third-body soft interactions using the MilkyÂWay globular clusters. Physical Review D, 2020, 102, .	4.7	5
9	Bounds on ultralight hidden-photon dark matter from observation of the 21Âcm signal at cosmic dawn. Physical Review D, 2019, 99, .	4.7	26
10	A robust excess in the cosmic-ray antiproton spectrum: Implications for annihilating dark matter. Physical Review D, 2019, 99, .	4.7	94
11	Where do the <i>AMS-02</i> antihelium events come from?. Physical Review D, 2019, 99, .	4.7	46
12	Studying the MilkyÂWay pulsar population with cosmic-ray leptons. Physical Review D, 2018, 98, .	4.7	31
13	Limits on runaway growth of intermediate mass black holes from advanced LIGO. Physical Review D, 2018, 97, .	4.7	17
14	Features in the spectrum of cosmic-ray positrons from pulsars. Physical Review D, 2018, 97, .	4.7	16
15	TeV gamma rays from Galactic Center pulsars. Physics of the Dark Universe, 2018, 21, 40-46.	4.9	11
16	Analyzing the gamma-ray sky with wavelets. Physical Review D, 2018, 98, .	4.7	16
17	Black hole mass function from gravitational wave measurements. Physical Review D, 2017, 95, .	4.7	87
18	Possible evidence for the stochastic acceleration of secondary antiprotons by supernova remnants. Physical Review D, 2017, 95, .	4.7	30

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19	Using HAWC to discover invisible pulsars. Physical Review D, 2017, 96, .	4.7	81
20	HAWC observations strongly favor pulsar interpretations of the cosmic-ray positron excess. Physical Review D, 2017, 96, .	4.7	118
21	On the gravitational wave background from black hole binaries after the first LIGO detections. Journal of Cosmology and Astroparticle Physics, 2017, 2017, 037-037.	5.4	17
22	Stochastic Gravitational-Wave Background due to Primordial Binary Black Hole Mergers. Physical Review Letters, 2016, 117, 201102.	7.8	99
23	Orbital eccentricities in primordial black hole binaries. Physical Review D, 2016, 94, .	4.7	85
24	Determining the progenitors of merging black-hole binaries. Physical Review D, 2016, 94, .	4.7	65
25	Wavelet-based techniques for the gamma-ray sky. Journal of Cosmology and Astroparticle Physics, 2016, 2016, 045-045.	5.4	13
26	A predictive analytic model for the solar modulation of cosmic rays. Physical Review D, 2016, 93, .	4.7	72
27	Did LIGO Detect Dark Matter?. Physical Review Letters, 2016, 116, 201301.	7.8	872
28	Unveiling the nature of the "Fermi GeV excess― robust characterisation and possible interpretations. , 2016, , .		0
29	A critical reevaluation of radio constraints on annihilating dark matter. Physical Review D, 2015, 91, .	4.7	26
30	The Galactic Center GeV excess from a series of leptonic cosmic-ray outbursts. Journal of Cosmology and Astroparticle Physics, 2015, 2015, 005-005.	5.4	88
31	A tale of tails: Dark matter interpretations of the Fermi GeV excess in light of background model systematics. Physical Review D, 2015, 91, .	4.7	216
32	Challenges in explaining the Galactic Center gamma-ray excess with millisecond pulsars. Journal of Cosmology and Astroparticle Physics, 2015, 2015, 043-043.	5.4	94
33	Background model systematics for the Fermi GeV excess. Journal of Cosmology and Astroparticle Physics, 2015, 2015, 038-038.	5.4	359
34	Constraints on dark matter annihilations from diffuse gamma-ray emission in the Galaxy. Journal of Cosmology and Astroparticle Physics, 2014, 2014, 017-017.	5.4	29
35	Dissecting the gamma-ray background in search of dark matter. Journal of Cosmology and Astroparticle Physics, 2014, 2014, 014-014.	5.4	37
36	Indirect detection analysis: wino dark matter case study. Journal of Cosmology and Astroparticle Physics, 2014, 2014, 031-031.	5.4	74

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37	Constraining the origin of the rising cosmic ray positron fraction with the boron-to-carbon ratio. Physical Review D, 2014, 89, .	4.7	55
38	Cosmic neutrino pevatrons: A brand new pathway to astronomy, astrophysics, and particle physics. Journal of High Energy Astrophysics, 2014, 1-2, 1-30.	6.7	136
39	On the origin of IceCube's PeV neutrinos. Journal of Cosmology and Astroparticle Physics, 2013, 2013, 030-030.	5.4	72
40	Searching for the high-energy neutrino counterpart signals: The case of the Fermi bubbles signal and of dark matter annihilation in the inner Galaxy. Physical Review D, 2013, 88, .	4.7	8
41	New Limits on Dark Matter Annihilation from Alpha Magnetic Spectrometer Cosmic Ray Positron Data. Physical Review Letters, 2013, 111, 171101.	7.8	193
42	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, .	4.7	127
43	Millisecond pulsars cannot account for the inner Galaxy's GeV excess. Physical Review D, 2013, 88, .	4.7	127
44	The 111 and 129 GeV <i>γ</i> -ray lines from annihilations in the Milky Way dark matter halo, dark disk and subhalos. The Astronomical Review, 2013, 8, 4-18.	4.0	11
45	Extracting limits on dark matter annihilation from gamma ray observations towards dwarf spheroidal galaxies. Physical Review D, 2012, 86, .	4.7	52
46	Searching for the continuum spectrum photons correlated to the 130ÂGeV gamma-ray line. Physical Review D, 2012, 86, .	4.7	28
47	Diffuse galactic gamma rays at intermediate and high latitudes. I. Constraints on the ISM properties. Journal of Cosmology and Astroparticle Physics, 2012, 2012, 004-004.	5.4	20
48	Antiprotons from dark matter annihilation in the Galaxy: Astrophysical uncertainties. Physical Review D, 2012, 85, .	4.7	84
49	Spherical harmonics analysis of <i>Fermi</i> gamma-ray data and the Galactic dark matter halo. Physical Review D, 2011, 84, .	4.7	3
50	New constraints from PAMELA anti-proton data on annihilating and decaying dark matter. Journal of Cosmology and Astroparticle Physics, 2011, 2011, 007-007.	5.4	25
51	THE <i>FERMI</i> GAMMA-RAY HAZE FROM DARK MATTER ANNIHILATIONS AND ANISOTROPIC DIFFUSION. Astrophysical Journal, 2011, 741, 25.	4.5	36
52	THE <i>FERMI</i> HAZE: A GAMMA-RAY COUNTERPART TO THE MICROWAVE HAZE. Astrophysical Journal, 2010, 717, 825-842.	4.5	226
53	<i>FERMI</i> GAMMA-RAY HAZE VIA DARK MATTER AND MILLISECOND PULSARS. Astrophysical Journal, 2010, 722, 1939-1945.	4.5	22
54	Consequences of a dark disk for the Fermi and PAMELA signals in theories with a Sommerfeld enhancement. Journal of Cosmology and Astroparticle Physics, 2010, 2010, 010-010.	5.4	15

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55	The PAMELA positron excess from annihilations into a light boson. Journal of Cosmology and Astroparticle Physics, 2009, 2009, 007-007.	5.4	96
56	Pulsars versus dark matter interpretation of ATIC/PAMELA. Physical Review D, 2009, 80, .	4.7	148
57	High energy positrons and the WMAP haze from exciting dark matter. Physical Review D, 2009, 79, .	4.7	62
58	Case for a <mml:math <br="" xmlns:mml="http://www.w3.org/1998/Math/MathML">display="inline"><mml:mn>700</mml:mn><mml:mo>+</mml:mo><mml:mi>GeV</mml:mi></mml:math> WIMP: Cosmic ray spectra from PAMELA, Fermi, and ATIC. Physical Review D, 2009, 80, .	4.7	125
59	High energy positrons from annihilating dark matter. Physical Review D, 2009, 80, .	4.7	96
60	Volumetric imaging of holographic optical traps. Optics Express, 2006, 14, 10907.	3.4	43