

Oscar Macias

List of Publications by Year in descending order

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Version: 2024-02-01

44
papers

2,745
citations

279798

23
h-index

233421

45
g-index

48
all docs

48
docs citations

48
times ranked

2621
citing authors

#	ARTICLE	IF	CITATIONS
1	Assessing the Impact of Hydrogen Absorption on the Characteristics of the Galactic Center Excess. <i>Astrophysical Journal</i> , 2022, 929, 136.	4.5	14
2	Millisecond pulsars from accretion-induced collapse as the origin of the Galactic Centre gamma-ray excess signal. <i>Nature Astronomy</i> , 2022, 6, 703-707.	10.1	18
3	Prospects for detecting heavy WIMP dark matter with the Cherenkov Telescope Array: The Wino and Higgsino. <i>Physical Review D</i> , 2021, 103, .	4.7	39
4	Cherenkov Telescope Array sensitivity to the putative millisecond pulsar population responsible for the Galactic Centre excess. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 506, 1741-1760.	4.4	10
5	Evidence for a high-energy tail in the gamma-ray spectra of globular clusters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 507, 5161-5176.	4.4	16
6	Measuring the smearing of the Galactic 511-keV signal: positron propagation or supernova kicks?. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2021, 509, L11-L16.	3.3	8
7	Green Bank and Effelsberg Radio Telescope Searches for Axion Dark Matter Conversion in Neutron Star Magnetospheres. <i>Physical Review Letters</i> , 2020, 125, 171301.	7.8	57
8	Foreground mismodeling and the point source explanation of the Fermi Galactic Center excess. <i>Physical Review D</i> , 2020, 102, .	4.7	43
9	Strong constraints on thermal relic dark matter from Fermi-LAT observations of the Galactic Center. <i>Physical Review D</i> , 2020, 102, .	4.7	54
10	Cross-correlation of the extragalactic gamma-ray background with the thermal Sunyaev-Zel'dovich effect in the cosmic microwave background. <i>Physical Review D</i> , 2020, 101, .	4.7	3
11	Maximum entropy estimation of the Galactic bulge morphology via the VVV Red Clump. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 495, 3350-3372.	4.4	10
12	Constraining dark matter annihilation with HSC low surface brightness galaxies. <i>Journal of Cosmology and Astroparticle Physics</i> , 2020, 2020, 059-059.	5.4	6
13	Probing heavy dark matter decays with multi-messenger astrophysical data. <i>Journal of Cosmology and Astroparticle Physics</i> , 2020, 2020, 003-003.	5.4	34
14	Comparing the galactic bulge and galactic disk millisecond pulsars. <i>Journal of Cosmology and Astroparticle Physics</i> , 2020, 2020, 035-035.	5.4	18
15	Inverse Compton emission from millisecond pulsars in the Galactic bulge. <i>Physical Review D</i> , 2019, 99, .	4.7	10
16	Strong evidence that the galactic bulge is shining in gamma rays. <i>Journal of Cosmology and Astroparticle Physics</i> , 2019, 2019, 042-042.	5.4	56
17	Discovery prospects of dwarf spheroidal galaxies for indirect dark matter searches. <i>Journal of Cosmology and Astroparticle Physics</i> , 2019, 2019, 040-040.	5.4	6
18	Measurement of redshift-dependent cross-correlation of HSC clusters and Fermi γ -rays. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 484, 5256-5266.	4.4	6

#	ARTICLE	IF	CITATIONS
19	Galactic bulge preferred over dark matter for the Galactic centre gamma-ray excess. Nature Astronomy, 2018, 2, 387-392.	10.1	92
20	Correlation of extragalactic $\hat{\Gamma}^3$ rays with cosmic matter density distributions from weak gravitational lensing. Physical Review D, 2018, 97, .	4.7	8
21	Consistency between the luminosity function of resolved millisecond pulsars and the galactic center excess. Journal of Cosmology and Astroparticle Physics, 2017, 2017, 015-015.	5.4	37
22	Cosmological constraints on dark matter annihilation and decay: Cross-correlation analysis of the extragalactic $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \hat{\Gamma}^3 \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ -ray background and cosmic shear. Physical Review D, 2016, 94, .	4.7	14
23	Spatial morphology of the secondary emission in the Galactic Center gamma-ray excess. Physical Review D, 2016, 93, .	4.7	16
24	The Fermi-LAT gamma-ray excess at the Galactic Center in the singlet-doublet fermion dark matter model. Journal of Cosmology and Astroparticle Physics, 2016, 2016, 048-048.	5.4	28
25	Cosmic Rays Interacting with Molecular Clouds in the Galactic Center. , 2016, , .		0
26	Cosmic ray models of the ridge-like excess of gamma rays in the Galactic Centre. Monthly Notices of the Royal Astronomical Society, 2015, 451, 1833-1847.	4.4	13
27	Multipole analysis of IceCube data to search for dark matter accumulated in the Galactic halo. European Physical Journal C, 2015, 75, 1.	3.9	28
28	The IceProd framework: Distributed data processing for the IceCube neutrino observatory. Journal of Parallel and Distributed Computing, 2015, 75, 198-211.	4.1	9
29	Can Cosmic Rays Interacting With Molecular Clouds Explain the Galactic Center Gamma-Ray Excess?. , 2015, , .		0
30	Contribution of cosmic rays interacting with molecular clouds to the Galactic Center gamma-ray excess. Physical Review D, 2014, 89, .	4.7	95
31	Search for a diffuse flux of astrophysical muon neutrinos with the IceCube 59-string configuration. Physical Review D, 2014, 89, .	4.7	74
32	Search for neutrino-induced particle showers with IceCube-40. Physical Review D, 2014, 89, .	4.7	23
33	Energy reconstruction methods in the IceCube neutrino telescope. Journal of Instrumentation, 2014, 9, P03009-P03009.	1.2	171
34	Multimessenger search for sources of gravitational waves and high-energy neutrinos: Initial results for LIGO-Virgo and IceCube. Physical Review D, 2014, 90, .	4.7	29
35	Improvement in fast particle track reconstruction with robust statistics. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 736, 143-149.	1.6	25
36	SEARCHES FOR EXTENDED AND POINT-LIKE NEUTRINO SOURCES WITH FOUR YEARS OF ICECUBE DATA. Astrophysical Journal, 2014, 796, 109.	4.5	149

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37	Observation of High-Energy Astrophysical Neutrinos in Three Years of IceCube Data. Physical Review Letters, 2014, 113, 101101.	7.8	873
38	Search for non-relativistic magnetic monopoles with IceCube. European Physical Journal C, 2014, 74, 1.	3.9	39
39	IceCube search for dark matter annihilation in nearby galaxies and galaxy clusters. Physical Review D, 2013, 88, .	4.7	53
40	Dark matter and pulsar model constraints from Galactic Center Fermi-LAT gamma-ray observations. Physical Review D, 2013, 88, .	4.7	350
41	Probing the origin of cosmic rays with extremely high energy neutrinos using the IceCube Observatory. Physical Review D, 2013, 88, .	4.7	47
42	SEARCH FOR TIME-INDEPENDENT NEUTRINO EMISSION FROM ASTROPHYSICAL SOURCES WITH 3 yr OF IceCube DATA. Astrophysical Journal, 2013, 779, 132.	4.5	81
43	Dark matter and pulsar model constraints from Galactic center Fermi/LAT $\hat{\gamma}$ -ray observations. Proceedings of the International Astronomical Union, 2013, 9, 414-418.	0.0	2
44	Evaluating the gamma-ray evidence for self-annihilating dark matter from the Virgo cluster. Physical Review D, 2012, 86, .	4.7	15