

Oscar Macias

List of Publications by Year in descending order

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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	Observation of High-Energy Astrophysical Neutrinos in Three Years of IceCube Data. <i>Physical Review Letters</i> , 2014, 113, 101101.	7.8	873
2	Dark matter and pulsar model constraints from Galactic Center Fermi-LAT gamma-ray observations. <i>Physical Review D</i> , 2013, 88, .	4.7	350
3	Energy reconstruction methods in the IceCube neutrino telescope. <i>Journal of Instrumentation</i> , 2014, 9, P03009-P03009.	1.2	171
4	SEARCHES FOR EXTENDED AND POINT-LIKE NEUTRINO SOURCES WITH FOUR YEARS OF ICECUBE DATA. <i>Astrophysical Journal</i> , 2014, 796, 109.	4.5	149
5	Contribution of cosmic rays interacting with molecular clouds to the Galactic Center gamma-ray excess. <i>Physical Review D</i> , 2014, 89, .	4.7	95
6	Galactic bulge preferred over dark matter for the Galactic centre gamma-ray excess. <i>Nature Astronomy</i> , 2018, 2, 387-392.	10.1	92
7	SEARCH FOR TIME-INDEPENDENT NEUTRINO EMISSION FROM ASTROPHYSICAL SOURCES WITH 3 yr OF IceCube DATA. <i>Astrophysical Journal</i> , 2013, 779, 132.	4.5	81
8	Search for a diffuse flux of astrophysical muon neutrinos with the IceCube 59-string configuration. <i>Physical Review D</i> , 2014, 89, .	4.7	74
9	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
10	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
11	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
12	IceCube search for dark matter annihilation in nearby galaxies and galaxy clusters. <i>Physical Review D</i> , 2013, 88, .	4.7	53
13	Probing the origin of cosmic rays with extremely high energy neutrinos using the IceCube Observatory. <i>Physical Review D</i> , 2013, 88, .	4.7	47
14	Foreground mismodeling and the point source explanation of the Fermi Galactic Center excess. <i>Physical Review D</i> , 2020, 102, .	4.7	43
15	Search for non-relativistic magnetic monopoles with IceCube. <i>European Physical Journal C</i> , 2014, 74, 1.	3.9	39
16	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
17	Consistency between the luminosity function of resolved millisecond pulsars and the galactic center excess. <i>Journal of Cosmology and Astroparticle Physics</i> , 2017, 2017, 015-015.	5.4	37
18	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

#	ARTICLE	IF	CITATIONS
19	Multimessenger search for sources of gravitational waves and high-energy neutrinos: Initial results for LIGO-Virgo and IceCube. <i>Physical Review D</i> , 2014, 90, .	4.7	29
20	Multipole analysis of IceCube data to search for dark matter accumulated in the Galactic halo. <i>European Physical Journal C</i> , 2015, 75, 1.	3.9	28
21	The Fermi-LAT gamma-ray excess at the Galactic Center in the singlet-doublet fermion dark matter model. <i>Journal of Cosmology and Astroparticle Physics</i> , 2016, 2016, 048-048.	5.4	28
22	Improvement in fast particle track reconstruction with robust statistics. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2014, 736, 143-149.	1.6	25
23	Search for neutrino-induced particle showers with IceCube-40. <i>Physical Review D</i> , 2014, 89, .	4.7	23
24	Comparing the galactic bulge and galactic disk millisecond pulsars. <i>Journal of Cosmology and Astroparticle Physics</i> , 2020, 2020, 035-035.	5.4	18
25	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
26	Spatial morphology of the secondary emission in the Galactic Center gamma-ray excess. <i>Physical Review D</i> , 2016, 93, .	4.7	16
27	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
28	Evaluating the gamma-ray evidence for self-annihilating dark matter from the Virgo cluster. <i>Physical Review D</i> , 2012, 86, .	4.7	15
29	Cosmological constraints on dark matter annihilation and decay: Cross-correlation analysis of the extragalactic $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mrow} \langle \text{mml:mi} \hat{I}^3 \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ -ray background and cosmic shear. <i>Physical Review D</i> , 2016, 94, .	4.7	14
30	Assessing the Impact of Hydrogen Absorption on the Characteristics of the Galactic Center Excess. <i>Astrophysical Journal</i> , 2022, 929, 136.	4.5	14
31	Cosmic ray models of the ridge-like excess of gamma rays in the Galactic Centre. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 451, 1833-1847.	4.4	13
32	Inverse Compton emission from millisecond pulsars in the Galactic bulge. <i>Physical Review D</i> , 2019, 99, .	4.7	10
33	Maximum entropy estimation of the Galactic bulge morphology via the WV Red Clump. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 495, 3350-3372.	4.4	10
34	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
35	The IceProd framework: Distributed data processing for the IceCube neutrino observatory. <i>Journal of Parallel and Distributed Computing</i> , 2015, 75, 198-211.	4.1	9
36	Correlation of extragalactic \hat{I}^3 rays with cosmic matter density distributions from weak gravitational lensing. <i>Physical Review D</i> , 2018, 97, .	4.7	8

#	ARTICLE	IF	CITATIONS
37	Measuring the smearing of the Galactic 511-keV signal: positron propagation or supernova kicks?. Monthly Notices of the Royal Astronomical Society: Letters, 2021, 509, L11-L16.	3.3	8
38	Discovery prospects of dwarf spheroidal galaxies for indirect dark matter searches. Journal of Cosmology and Astroparticle Physics, 2019, 2019, 040-040.	5.4	6
39	Measurement of redshift-dependent cross-correlation of HSC clusters and Fermi $\hat{\gamma}$ -rays. Monthly Notices of the Royal Astronomical Society, 2019, 484, 5256-5266.	4.4	6
40	Constraining dark matter annihilation with HSC low surface brightness galaxies. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 059-059.	5.4	6
41	Cross-correlation of the extragalactic gamma-ray background with the thermal Sunyaev-Zel'dovich effect in the cosmic microwave background. Physical Review D, 2020, 101, .	4.7	3
42	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
43	Can Cosmic Rays Interacting With Molecular Clouds Explain the Galactic Center Gamma-Ray Excess?. , 2015, , .		0
44	Cosmic Rays Interacting with Molecular Clouds in the Galactic Center. , 2016, , .		0