

Jesus Zavala Franco

List of Publications by Year in descending order

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65
papers

3,819
citations

126907

33
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118850

62
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66
all docs

66
docs citations

66
times ranked

2896
citing authors

#	ARTICLE	IF	CITATIONS
1	Degeneracies between self-interacting dark matter and supernova feedback as cusp-core transformation mechanisms. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 513, 3458-3481.	4.4	18
2	ETHOS – an effective theory of structure formation: Impact of dark acoustic oscillations on cosmic dawn. <i>Physical Review D</i> , 2021, 103, .	4.7	14
3	The halo mass function and inner structure of ETHOS haloes at high redshift. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 506, 128-138.	4.4	11
4	The onset of gravothermal core collapse in velocity-dependent self-interacting dark matter subhaloes. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 505, 5327-5339.	4.4	29
5	Conservation of radial actions in time-dependent spherical potentials. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 508, 1404-1430.	4.4	2
6	Supernova-driven Mechanism of Cusp-core Transformation: an Appraisal. <i>Astrophysical Journal</i> , 2021, 921, 126.	4.5	13
7	Local group star formation in warm and self-interacting dark matter cosmologies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 498, 702-717.	4.4	9
8	ETHOS – an effective parametrization and classification for structure formation: the non-linear regime at $z \gtrsim 5$. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 498, 3403-3419.	4.4	20
9	Galaxy formation with BECDM – II. Cosmic filaments and first galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 494, 2027-2044.	4.4	58
10	Self-Interacting Dark Matter Subhalos in the Milky Way’s Tides. <i>Physical Review Letters</i> , 2020, 124, 141102.	7.8	52
11	Dark Matter Haloes and Subhaloes. <i>Galaxies</i> , 2019, 7, 81.	3.0	74
12	First Star-Forming Structures in Fuzzy Cosmic Filaments. <i>Physical Review Letters</i> , 2019, 123, 141301.	7.8	94
13	ETHOS – an Effective Theory of Structure Formation: detecting dark matter interactions through the Lyman- α forest. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 487, 522-536.	4.4	23
14	The nature of core formation in dark matter haloes: adiabatic or impulsive?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 485, 1008-1028.	4.4	14
15	ETHOS – an effective theory of structure formation: formation of the first haloes and their stars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 485, 5474-5489.	4.4	14
16	Evaporating the Milky Way halo and its satellites with inelastic self-interacting dark matter. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 484, 5437-5452.	4.4	46
17	The interplay of self-interacting dark matter and baryons in shaping the halo evolution. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 484, 4563-4573.	4.4	35
18	Diverse dark matter density at sub-kiloparsec scales in Milky Way satellites: Implications for the nature of dark matter. <i>Physical Review D</i> , 2019, 100, .	4.7	47

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19	Binary pulsars as probes of a Galactic dark matter disk. <i>Physics of the Dark Universe</i> , 2018, 19, 1-11.	4.9	17
20	Towards an improved model of self-interacting dark matter haloes. <i>Journal of Cosmology and Astroparticle Physics</i> , 2018, 2018, 038-038.	5.4	24
21	ETHOS – an effective theory of structure formation: predictions for the high-redshift Universe – abundance of galaxies and reionization. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 477, 2886-2899.	4.4	42
22	Gravitational lensing and the power spectrum of dark matter substructure: Insights from the ETHOS N -body simulations. <i>Physical Review D</i> , 2018, 98, .	4.7	32
23	The structure and assembly history of cluster-sized haloes in self-interacting dark matter. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 474, 746-759.	4.4	35
24	The impact of baryonic discs on the shapes and profiles of self-interacting dark matter haloes. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 479, 359-367.	4.4	46
25	A rumble in the dark: signatures of self-interacting dark matter in supermassive black hole dynamics and galaxy density profiles. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, 2845-2854.	4.4	36
26	A merger in the dusty, $z = 7.5$ galaxy A1689-zD1?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 466, 138-146.	4.4	70
27	Galaxy formation with BECDM – I. Turbulence and relaxation of idealized haloes. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 471, 4559-4570.	4.4	208
28	Spreading out and staying sharp – creating diverse rotation curves via baryonic and self-interaction effects. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 468, 2283-2295.	4.4	109
29	Angular power spectrum of the diffuse gamma-ray emission as measured by the Fermi Large Area Telescope and constraints on its dark matter interpretation. <i>Physical Review D</i> , 2016, 94, .	4.7	43
30	Contributions to cosmic reionization from dark matter annihilation and decay. <i>Physical Review D</i> , 2016, 94, .	4.7	96
31	ETHOS – an effective theory of structure formation: From dark particle physics to the matter distribution of the Universe. <i>Physical Review D</i> , 2016, 93, .	4.7	155
32	ETHOS – an effective theory of structure formation: dark matter physics as a possible explanation of the small-scale CDM problems. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 460, 1399-1416.	4.4	185
33	The link between the assembly of the inner dark matter halo and the angular momentum evolution of galaxies in the EAGLE simulation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 460, 4466-4482.	4.4	86
34	Enhanced tidal stripping of satellites in the galactic halo from dark matter self-interactions. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 461, 710-727.	4.4	57
35	Universal clustering of dark matter in phase space. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 457, 986-992.	4.4	13
36	Scattering, damping, and acoustic oscillations: Simulating the structure of dark matter halos with relativistic force carriers. <i>Physical Review D</i> , 2014, 90, .	4.7	91

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37	Galactic PeV neutrinos from dark matter annihilation. <i>Physical Review D</i> , 2014, 89, .	4.7	47
38	The growth of galactic bulges through mergers in Λ cold dark matter haloes revisited $\hat{\text{a}}^{\text{c}}$ II. Morphological mix evolution. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 441, 417-430.	4.4	15
39	DARK MATTER CORES IN THE FORNAX AND SCULPTOR DWARF GALAXIES: JOINING HALO ASSEMBLY AND DETAILED STAR FORMATION HISTORIES. <i>Astrophysical Journal Letters</i> , 2014, 782, L39.	8.3	47
40	Dwarf galaxies in CDM and SIDM with baryons: observational probes of the nature of dark matter. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 444, 3684-3698.	4.4	166
41	Clustering in the phase space of dark matter haloes $\hat{\text{a}}^{\text{c}}$ I. Results from the Aquarius simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 441, 1317-1328.	4.4	5
42	Clustering in the phase space of dark matter haloes $\hat{\text{a}}^{\text{c}}$ II. Stable clustering and dark matter annihilation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 441, 1329-1339.	4.4	16
43	Dark matter implications of Fermi-LAT measurement of anisotropies in the diffuse gamma-ray background. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2014, 742, 149-153.	1.6	14
44	Direct detection of self-interacting dark matter. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 430, 1722-1735.	4.4	60
45	The abundance of (not just) dark matter haloes. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 431, 1366-1382.	4.4	130
46	Constraining self-interacting dark matter with the Milky Way's dwarf spheroidals. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2013, 431, L20-L24.	3.3	326
47	Characterization of dark-matter-induced anisotropies in the diffuse gamma-ray background. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 429, 1529-1553.	4.4	49
48	The growth of galactic bulges through mergers in Λ CDM haloes revisited $\hat{\text{a}}^{\text{c}}$ I. Present-day properties. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 427, 1503-1516.	4.4	33
49	Removal and mixing of the coronal gas from satellites in galaxy groups: cooling the intragroup gas. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 426, 3464-3476.	4.4	8
50	Dark Matter implications of the Fermi-LAT measurement of anisotropies in the diffuse gamma-ray background: Status report. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2012, 692, 132-136.	1.6	2
51	Subhaloes in self-interacting galactic dark matter haloes. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 423, 3740-3752.	4.4	431
52	Cosmic X-ray and gamma-ray background from dark matter annihilation. <i>Physical Review D</i> , 2011, 83, .	4.7	28
53	Extragalactic gamma-ray background radiation from dark matter annihilation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010, , .	4.4	30
54	Relic density and CMB constraints on dark matter annihilation with Sommerfeld enhancement. <i>Physical Review D</i> , 2010, 81, .	4.7	65

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55	THE VELOCITY FUNCTION IN THE LOCAL ENVIRONMENT FROM $\hat{\Lambda}$ CDM AND $\hat{\Lambda}$ WDM CONSTRAINED SIMULATIONS. <i>Astrophysical Journal</i> , 2009, 700, 1779-1793.	4.5	160
56	Bulges versus discs: the evolution of angular momentum in cosmological simulations of galaxy formation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2008, 387, 364-370.	4.4	82
57	Three-dimensional hydrodynamical simulations of the large-scale structure of W50 \hat{a} SS433. <i>Monthly Notices of the Royal Astronomical Society</i> , 2008, 387, 839-844.	4.4	20
58	Constraining the mSUGRA (minimal supergravity) parameter space using the entropy of dark matter halos. <i>Journal of Cosmology and Astroparticle Physics</i> , 2008, 2008, 003.	5.4	3
59	ON THE BARYONIC, STELLAR, AND LUMINOUS SCALING RELATIONS OF DISK GALAXIES. <i>Astronomical Journal</i> , 2008, 136, 1340-1360.	4.7	62
60	Empirical testing of Tsallis \hat{a} ™ Thermodynamics as a model for dark matter halos. <i>AIP Conference Proceedings</i> , 2006, , .	0.4	6
61	Entropy considerations in constraining the mSUGRA parameter space. <i>AIP Conference Proceedings</i> , 2006, , .	0.4	1
62	Stellar polytropes and Navarro \hat{a} “Frenk \hat{a} “White halo models: comparison with observations. <i>Journal of Cosmology and Astroparticle Physics</i> , 2006, 2006, 008-008.	5.4	20
63	PIONEER ANOMALY? GRAVITATIONAL PULL DUE TO THE KUIPER BELT. <i>International Journal of Modern Physics D</i> , 2006, 15, 533-544.	2.1	8
64	The luminous and dark matter content of disk galaxies. <i>Astronomy and Astrophysics</i> , 2003, 412, 633-650.	5.1	55
65	The impact of inelastic self-interacting dark matter on the dark matter structure of a Milky Way halo. <i>Monthly Notices of the Royal Astronomical Society</i> , 0, , .	4.4	10