

Facundo A GÃ³mez

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

4,534
citations

76326

40
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110387

64
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70
all docs

70
docs citations

70
times ranked

2883
citing authors

#	ARTICLE	IF	CITATIONS
1	The Auriga Project: the properties and formation mechanisms of disc galaxies across cosmic time. Monthly Notices of the Royal Astronomical Society, 0, , stx071.	4.4	293
2	Footprints of the Sagittarius dwarf galaxy in the Gaia data set. Monthly Notices of the Royal Astronomical Society, 2019, 485, 3134-3152.	4.4	196
3	The milky way total mass profile as inferred from Gaia DR2. Monthly Notices of the Royal Astronomical Society, 2020, 494, 4291-4313.	4.4	188
4	Vertical density waves in the Milky Way disc induced by the Sagittarius dwarf galaxy. Monthly Notices of the Royal Astronomical Society, 2013, 429, 159-164.	4.4	182
5	A timing constraint on the (total) mass of the Large Magellanic Cloud. Monthly Notices of the Royal Astronomical Society: Letters, 2015, 456, L54-L58.	3.3	149
6	The influence of Sagittarius and the Large Magellanic Cloud on the stellar disc of the Milky Way Galaxy. Monthly Notices of the Royal Astronomical Society, 2018, 481, 286-306.	4.4	148
7	Quenching and ram pressure stripping of simulated Milky Way satellite galaxies. Monthly Notices of the Royal Astronomical Society, 2018, 478, 548-567.	4.4	135
8	AND YET IT MOVES: THE DANGERS OF ARTIFICIALLY FIXING THE MILKY WAY CENTER OF MASS IN THE PRESENCE OF A MASSIVE LARGE MAGELLANIC CLOUD. Astrophysical Journal, 2015, 802, 128.	4.5	134
9	Vertical disc heating in Milky Way-sized galaxies in a cosmological context. Monthly Notices of the Royal Astronomical Society, 2016, 459, 199-219.	4.4	132
10	Magnetic field formation in the Milky Way like disc galaxies of the Auriga project. Monthly Notices of the Royal Astronomical Society, 2017, 469, 3185-3199.	4.4	120
11	The Auriga stellar haloes: connecting stellar population properties with accretion and merging history. Monthly Notices of the Royal Astronomical Society, 2019, 485, 2589-2616.	4.4	113
12	Hunting for the Dark Matter Wake Induced by the Large Magellanic Cloud. Astrophysical Journal, 2019, 884, 51.	4.5	111
13	The mass of the Milky Way from satellite dynamics. Monthly Notices of the Royal Astronomical Society, 2019, 484, 5453-5467.	4.4	102
14	The Orbital Histories of Magellanic Satellites Using Gaia DR2 Proper Motions. Astrophysical Journal, 2020, 893, 121.	4.5	101
15	Origin of chemically distinct discs in the Auriga cosmological simulations. Monthly Notices of the Royal Astronomical Society, 2018, 474, 3629-3639.	4.4	97
16	Response of the Milky Way's disc to the Large Magellanic Cloud in a first infall scenario. Monthly Notices of the Royal Astronomical Society, 2018, 473, 1218-1230.	4.4	95
17	The origin of galactic metal-rich stellar halo components with highly eccentric orbits. Monthly Notices of the Royal Astronomical Society, 2019, 484, 4471-4483.	4.4	89
18	THE CATERPILLAR PROJECT: A LARGE SUITE OF MILKY WAY SIZED HALOS. Astrophysical Journal, 2016, 818, 10.	4.5	88

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19	Warps and waves in the stellar discs of the Auriga cosmological simulations. Monthly Notices of the Royal Astronomical Society, 2017, 465, 3446-3460.	4.4	79
20	Descendants of the first stars: the distinct chemical signature of second-generation stars. Monthly Notices of the Royal Astronomical Society, 2018, 478, 1795-1810.	4.4	77
21	A fully cosmological model of a Monoceros-like ring. Monthly Notices of the Royal Astronomical Society, 2016, 456, 2779-2793.	4.4	75
22	On the identification of merger debris in the Gaia era. Monthly Notices of the Royal Astronomical Society, 2010, 408, 935-946.	4.4	74
23	The dual origin of the Galactic thick disc and halo from the gas-rich Gaiaâ€“Enceladus Sausage merger. Monthly Notices of the Royal Astronomical Society, 2020, 497, 1603-1618.	4.4	71
24	Spiral-induced velocity and metallicity patterns in a cosmological zoom simulation of a Milky Way-sized galaxy. Monthly Notices of the Royal Astronomical Society: Letters, 2016, 460, L94-L98.	3.3	70
25	Gas accretion and galactic fountain flows in the Auriga cosmological simulations: angular momentum and metal redistribution. Monthly Notices of the Royal Astronomical Society, 2019, 490, 4786-4803.	4.4	69
26	No cores in dark matter-dominated dwarf galaxies with bursty star formation histories. Monthly Notices of the Royal Astronomical Society, 2019, 486, 4790-4804.	4.4	62
27	The effect of magnetic fields on properties of the circumgalactic medium. Monthly Notices of the Royal Astronomical Society, 2021, 501, 4888-4902.	4.4	62
28	Signatures of minor mergers in Milky Way like disc kinematics: ringing revisited. Monthly Notices of the Royal Astronomical Society, 2012, 419, 2163-2172.	4.4	58
29	The slight spin of the old stellar halo. Monthly Notices of the Royal Astronomical Society, 2017, 470, 1259-1273.	4.4	58
30	Signatures of minor mergers in the Milky Way disc - I. The SEGUE stellar sample. Monthly Notices of the Royal Astronomical Society, 2012, 423, 3727-3739.	4.4	55
31	Ultra-diffuse galaxies in the Auriga simulations. Monthly Notices of the Royal Astronomical Society, 2019, 490, 5182-5195.	4.4	55
32	On the identification of substructure in phase space using orbital frequencies. Monthly Notices of the Royal Astronomical Society, 2010, 401, 2285-2298.	4.4	52
33	The effect of a disc on the population of cuspy and cored dark matter substructures in Milky Way-like galaxies. Monthly Notices of the Royal Astronomical Society: Letters, 0, , .	3.3	52
34	Quantifying the Impact of the Large Magellanic Cloud on the Structure of the Milky Wayâ€™s Dark Matter Halo Using Basis Function Expansions. Astrophysical Journal, 2021, 919, 109.	4.5	52
35	The multiplicity and anisotropy of galactic satellite accretion. Monthly Notices of the Royal Astronomical Society, 2018, 476, 1796-1810.	4.4	51
36	Neutron star mergers and rare core-collapse supernovae as sources of r-process enrichment in simulated galaxies. Monthly Notices of the Royal Astronomical Society, 2020, 494, 4867-4883.	4.4	51

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37	Properties of Hâ€%i discs in the Auriga cosmological simulations. Monthly Notices of the Royal Astronomical Society, 2017, 466, 3859-3875.	4.4	50
38	The mass of the Milky Way out to 100Âkpc using halo stars. Monthly Notices of the Royal Astronomical Society, 2021, 501, 5964-5972.	4.4	49
39	Lessons from the Auriga discs: the hunt for the Milky Way's ex situ disc is not yet over. Monthly Notices of the Royal Astronomical Society, 2017, 472, 3722-3733.	4.4	46
40	Subhalo destruction in the Apostle and Auriga simulations. Monthly Notices of the Royal Astronomical Society, 2020, 492, 5780-5793.	4.4	46
41	Faraday rotation maps of disc galaxies. Monthly Notices of the Royal Astronomical Society, 2018, 481, 4410-4418.	4.4	44
42	Aurigaia: mock Gaia DR2 stellar catalogues from the auriga cosmological simulations. Monthly Notices of the Royal Astronomical Society, 2018, 481, 1726-1743.	4.4	44
43	Determining the full satellite population of a Milky Way-mass halo in a highly resolved cosmological hydrodynamic simulation. Monthly Notices of the Royal Astronomical Society, 2021, 507, 4953-4967.	4.4	42
44	Streams in the Aquarius stellar haloes. Monthly Notices of the Royal Astronomical Society, 2013, 436, 3602-3613.	4.4	41
45	The prevalence of pseudo-bulges in the Auriga simulations. Monthly Notices of the Royal Astronomical Society, 2019, 489, 5742-5763.	4.4	40
46	Magnetizing the circumgalactic medium of disc galaxies. Monthly Notices of the Royal Astronomical Society, 2020, 498, 3125-3137.	4.4	40
47	A tale of two populations: surviving and destroyed dwarf galaxies and the build-up of the Milky Way's stellar halo. Monthly Notices of the Royal Astronomical Society, 2020, 497, 4459-4471.	4.4	40
48	CHARACTERIZING THE FORMATION HISTORY OF MILKY WAY LIKE STELLAR HALOS WITH MODEL EMULATORS. Astrophysical Journal, 2012, 760, 112.	4.5	38
49	On the stellar halo metallicity profile of Milky Way-like galaxies in the Auriga simulations. Monthly Notices of the Royal Astronomical Society: Letters, 2016, 459, L46-L50.	3.3	35
50	Tracing the first stars and galaxies of the Milky Way. Monthly Notices of the Royal Astronomical Society, 2018, 474, 443-459.	4.4	35
51	The effects of dynamical substructure on Milky Way mass estimates from the high-velocity tail of the local stellar halo. Monthly Notices of the Royal Astronomical Society: Letters, 2019, 487, L72-L76.	3.3	34
52	The Origin of r-process Enhanced Metal-poor Halo Stars In Now-destroyed Ultra-faint Dwarf Galaxies. Astrophysical Journal, 2019, 871, 247.	4.5	32
53	The velocity anisotropy of the Milky Way satellite system. Monthly Notices of the Royal Astronomical Society, 2019, 486, 2679-2694.	4.4	32
54	The star formation histories of dwarf galaxies in Local Group cosmological simulations. Monthly Notices of the Royal Astronomical Society, 2019, 485, 5423-5437.	4.4	31

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55	The dark matter component of the Gaia radially anisotropic substructure. <i>Journal of Cosmology and Astroparticle Physics</i> , 2020, 2020, 036-036.	5.4	22
56	Structural and photometric properties of barred galaxies from the Auriga cosmological simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 491, 1800-1819.	4.4	20
57	Satellites around Milky Way Analogs: Tension in the Number and Fraction of Quiescent Satellites Seen in Observations versus Simulations. <i>Astrophysical Journal Letters</i> , 2021, 916, L19.	8.3	19
58	DISSECTING GALAXY FORMATION MODELS WITH SENSITIVITY ANALYSISâ€”A NEW APPROACH TO CONSTRAIN THE MILKY WAY FORMATION HISTORY. <i>Astrophysical Journal</i> , 2014, 787, 20.	4.5	18
59	The Clustering of Orbital Poles Induced by the LMC: Hints for the Origin of Planes of Satellites. <i>Astrophysical Journal</i> , 2021, 923, 140.	4.5	17
60	The diversity of the circumgalactic medium around $z = 0$ Milky Way-mass galaxies from the Auriga simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 488, 135-152.	4.4	16
61	On the relevance of chaos for halo stars in the solar neighbourhood II. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 478, 4052-4067.	4.4	15
62	Simulating cosmological substructure in the solar neighbourhood. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2019, 490, L32-L37.	3.3	14
63	The effects of AGN feedback on the structural and dynamical properties of Milky Way-mass galaxies in cosmological simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 513, 3768-3787.	4.4	14
64	A Tidally Induced Global Corrugation Pattern in an External Disk Galaxy Similar to the Milky Way. <i>Astrophysical Journal</i> , 2021, 908, 27.	4.5	13
65	Too dense to go through: the role of low-mass clusters in the pre-processing of satellite galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 511, 3210-3227.	4.4	13
66	Selecting ultra-faint dwarf candidate progenitors in cosmological N-body simulations at high redshifts. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 476, 5006-5015.	4.4	11
67	The globular cluster system of the Auriga simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 496, 638-648.	4.4	11
68	High and low $S\ddot{A}rsic$ index bulges in Milky Way- and M31-like galaxies: origin and connection to the bar with TNG50. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 512, 2537-2555.	4.4	9
69	Observing the Stellar Halo of Andromeda in Cosmological Simulations: The AURIGA2PANDAS Pipeline. <i>Astrophysical Journal</i> , 2021, 910, 92.	4.5	6
70	Exploring the outskirts of the EAGLE disc galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 514, 5340-5354.	4.4	1