

Antonino Del Popolo

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

1,360
citations

331670

21
h-index

345221

36
g-index

59
all docs

59
docs citations

59
times ranked

505
citing authors

#	ARTICLE	IF	CITATIONS
1	Small Scale Problems of the Λ CDM Model: A Short Review. <i>Galaxies</i> , 2017, 5, 17.	3.0	186
2	THE CUSP/CORE PROBLEM AND THE SECONDARY INFALL MODEL. <i>Astrophysical Journal</i> , 2009, 698, 2093-2113.	4.5	104
3	NONBARYONIC DARK MATTER IN COSMOLOGY. <i>International Journal of Modern Physics D</i> , 2014, 23, 1430005.	2.1	83
4	Dark matter, density perturbations, and structure formation. <i>Astronomy Reports</i> , 2007, 51, 169-196.	0.9	77
5	Effects of shear and rotation on the spherical collapse model for clustering dark energy. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 445, 648-659.	4.4	58
6	Spherical collapse model with shear and angular momentum in dark energy cosmologies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 430, 628-637.	4.4	57
7	Shear and rotation in Chaplygin cosmology. <i>Physical Review D</i> , 2013, 87, .	4.7	47
8	EXTENDED SPHERICAL COLLAPSE AND THE ACCELERATING UNIVERSE. <i>International Journal of Modern Physics D</i> , 2013, 22, 1350038.	2.1	47
9	Cosmological measure with volume averaging and the vacuum energy problem. <i>Classical and Quantum Gravity</i> , 2012, 29, 085014.	4.0	46
10	Dark compact objects: An extensive overview. <i>Physical Review D</i> , 2019, 99, .	4.7	43
11	The Cusp/Core problem: supernovae feedback versus the baryonic clumps and dynamical friction model. <i>Astrophysics and Space Science</i> , 2016, 361, 1.	1.4	42
12	Ellipsoidal Collapse and Previrialization. <i>Astronomical Journal</i> , 2001, 122, 487-495.	4.7	42
13	A theoretical study of the mass-temperature relation for clusters of galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2002, 336, 81-90.	4.4	39
14	Cusps and cores in the presence of galactic bulges. <i>Journal of Cosmology and Astroparticle Physics</i> , 2014, 2014, 047-047.	5.4	39
15	On the Reliability of Merger-Trees and the Mass-Growth Histories of Dark Matter Haloes. <i>Astrophysics and Space Science</i> , 2006, 301, 167-177.	1.4	31
16	A unified solution to the small scale problems of the Λ CDM model II: introducing parent-satellite interaction. <i>Journal of Cosmology and Astroparticle Physics</i> , 2014, 2014, 051-051.	5.4	30
17	Some improvements to the spherical collapse model. <i>Astronomy and Astrophysics</i> , 2006, 454, 17-26.	5.1	27
18	Non-baryonic dark matter in cosmology. , 2013, , .		27

#	ARTICLE	IF	CITATIONS
19	A high precision semi-analytic mass function. <i>Journal of Cosmology and Astroparticle Physics</i> , 2017, 2017, 032-032.	5.4	26
20	On the evolution of aspherical perturbations in the universe: An analytical model. <i>Astronomy and Astrophysics</i> , 2002, 387, 759-777.	5.1	25
21	DYNAMICAL DERIVATION OF BODE'S LAW. <i>International Journal of Modern Physics D</i> , 2005, 14, 153-169.	2.1	25
22	The radial acceleration relation in galaxy clusters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 492, 5865-5869.	4.4	23
23	On the absence of a universal surface density, and a maximum Newtonian acceleration in dark matter haloes: Consequences for MOND. <i>Physics of the Dark Universe</i> , 2020, 28, 100468.	4.9	22
24	Constraints on shear and rotation with massive galaxy clusters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 465, 2687-2697.	4.4	21
25	On the Dynamical Origin of Bias in Clusters of Galaxies. <i>Astrophysical Journal</i> , 1995, 455, 32.	4.5	21
26	A Theoretical Study of the Luminosity-Temperature Relation for Clusters of Galaxies. <i>Astrophysical Journal</i> , 2005, 628, 76-88.	4.5	18
27	Solution to the hyperon puzzle using dark matter. <i>Physics of the Dark Universe</i> , 2020, 30, 100622.	4.9	16
28	The cosmological mass function. <i>Astronomy Reports</i> , 2007, 51, 709-734.	0.9	15
29	Halo collapse: virialization by shear and rotation in dynamical dark-energy models. Effects on weak-lensing peaks. <i>Journal of Cosmology and Astroparticle Physics</i> , 2019, 2019, 060-060.	5.4	15
30	Mass-temperature relation in Λ CDM and modified gravity. <i>Physical Review D</i> , 2019, 100, .	4.7	15
31	Thermodynamic equilibrium in general relativity. <i>Physical Review D</i> , 2019, 100, .	4.7	15
32	On the dark matter haloes inner structure and galaxy morphology. <i>Astrophysics and Space Science</i> , 2016, 361, 1.	1.4	12
33	Energy transfer from baryons to dark matter as a unified solution to small-scale structure issues of the Λ CDM model. <i>Physical Review D</i> , 2018, 98, .	4.7	12
34	Investigating the Blazar TXS 0506+056 through Sharp Multiwavelength Eyes During 2017-2019. <i>Astrophysical Journal</i> , 2022, 927, 197.	4.5	11
35	Turnaround radius in Λ CDM and dark matter cosmologies with shear and vorticity. <i>Physical Review D</i> , 2020, 101, .	4.7	7
36	The collapse of a spherical density perturbation in the presence of dynamical friction. <i>Astronomical and Astrophysical Transactions</i> , 1998, 16, 127-131.	0.2	5

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37	Angular momentum transfer and the size $r_{1/2}^{\text{vir}}$ mass relation in early-type galaxies. Monthly Notices of the Royal Astronomical Society, 2009, 400, 766-774.	4.4	5
38	Multiwavelength Observations of the Blazar VER J0521+211 during an Elevated TeV Gamma-Ray State. Astrophysical Journal, 2022, 932, 129.	4.5	4
39	On the Dark Matter Column Density in Haloes. Astronomy Reports, 2017, 61, 1003-1014.	0.9	2
40	NON-SELF-SIMILARITY IN COSMOLOGICAL SCALING LAWS. International Journal of Modern Physics D, 2006, 15, 805-816.	2.1	1
41	Deviations from Spherical Symmetry, Typical Parameters of the Spherical Collapse Model, and Dark Energy Cosmologies. Astronomy Reports, 2018, 62, 475-482.	0.9	1
42	On the Dark Matter Profile Mass Dependence. Astronomy Reports, 2020, 64, 547-555.	0.9	1
43	Improved Lemaitre-Tolman model and the mass and turn-around radius in group of galaxies. Physics of the Dark Universe, 2021, 31, 100780.	4.9	1
44	Angular Momentum Distribution in Galaxies and Inner Haloes Profile. Astronomy Reports, 2019, 63, 971-989.	0.9	1
45	Probing Modified Gravity with the Structures Maximum Dimensions. Astronomy Reports, 2020, 64, 641-650.	0.9	1
46	Turnaround radius in Λ CDM and dark matter cosmologies. II. The role of dynamical friction. Physical Review D, 2020, 102, .	4.7	1
47	Constraints to cosmological parameters through cluster evolution. Proceedings of the International Astronomical Union, 2004, 2004, .	0.0	0
48	An ABS algorithm for a class of systems of stochastic linear equations. Journal of Applied Mathematics and Computing, 2009, 31, 533-542.	2.5	0
49	Halo density profiles and baryon physics. Astronomy Reports, 2017, 61, 631-638.	0.9	0
50	Improvements on a unified dark matter model. Astronomy Letters, 2017, 43, 635-643.	1.0	0
51	On the Inner Structure of Virialized Clusters. Astronomy Reports, 2019, 63, 249-262.	0.9	0
52	Non-Linear Moving Barrier and the Ordinary and Conditional Mass Function. Astronomy Reports, 2019, 63, 1080-1089.	0.9	0
53	Narrow-Line SY1 NGC 4748 in X-Rays: Detailed Case-Study. Astronomy Reports, 2020, 64, 384-393.	0.9	0
54	On the Influence of Angular Momentum and Dynamical Friction on Structure Formation. II. Turn-Around and Structure Mass. Astronomy Reports, 2021, 65, 343-352.	0.9	0

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55	Stellar-to-Halo Mass Ratio and Dark Matter Profiles. Astronomy Reports, 2021, 65, 529-542.	0.9	0
56	On the Influence of Angular Momentum and Dynamical Friction on Structure Formation. Astronomy Reports, 2020, 64, 994-1004.	0.9	0
57	Barions and Λ CDM Model Problems. Astronomy Reports, 2022, 66, 102-115.	0.9	0
58	Improved Lemaitre-Tolman Model and the Mass and Turn-around Radius in Group of Galaxies. II. The Role of Dark Energy. Astrophysical Journal, 2022, 926, 156.	4.5	0