Anatoly Klypin

List of Publications by Year
in descending order

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88	14,272	47006 47	51608 86
papers	citations	h-index	g-index

91	91	91	6784
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Where Are the Missing Galactic Satellites?. Astrophysical Journal, 1999, 522, 82-92.	4.5	2,181
2	Sloan Digital Sky Survey: Early Data Release. Astronomical Journal, 2002, 123, 485-548.	4.7	2,003
3	Toward a Halo Mass Function for Precision Cosmology: The Limits of Universality. Astrophysical Journal, 2008, 688, 709-728.	4.5	1,387
4	THE LARGE-SCALE BIAS OF DARK MATTER HALOS: NUMERICAL CALIBRATION AND MODEL TESTS. Astrophysical Journal, 2010, 724, 878-886.	4.5	733
5	MultiDark simulations: the story of dark matter halo concentrations and density profiles. Monthly Notices of the Royal Astronomical Society, 2016, 457, 4340-4359.	4.4	687
6	Î›CDMâ€based Models for the Milky Way and M31. I. Dynamical Models. Astrophysical Journal, 2002, 573, 597-613.	4.5	579
7	Galaxies inNâ€Body Simulations: Overcoming the Overmerging Problem. Astrophysical Journal, 1999, 516, 530-551.	4.5	431
8	Resolving the Structure of Cold Dark Matter Halos. Astrophysical Journal, 2001, 554, 903-915.	4.5	384
9	Haloes gone MADâ˜…: The Halo-Finder Comparison Project. Monthly Notices of the Royal Astronomical Society, 2011, 415, 2293-2318.	4.4	302
10	GALAXIES IN Î›CDM WITH HALO ABUNDANCE MATCHING: LUMINOSITY-VELOCITY RELATION, BARYONIC MASS-VELOCITY RELATION, VELOCITY FUNCTION, AND CLUSTERING. Astrophysical Journal, 2011, 742, 16.	4.5	240
11	THE ROLE OF STELLAR FEEDBACK IN THE FORMATION OF GALAXIES. Astrophysical Journal, 2009, 695, 292-309.	4.5	239
12	Constrained Simulations of the Real Universe. II. Observational Signatures of Intergalactic Gas in the Local Supercluster Region. Astrophysical Journal, 2002, 571, 563-575.	4.5	227
13	The clustering of galaxies in the SDSS-III Baryon Oscillation Spectroscopic Survey: mock galaxy catalogues for the BOSS Final Data Release. Monthly Notices of the Royal Astronomical Society, 2016, 456, 4156-4173.	4.4	213
14	Cold+Hot Dark Matter Cosmology withm(Î½Î¼)â‰ˆm(Î½Ï„)â‰ˆ2.4eV. Physical Review Letters, 1995, 74, 2160-2163.	7.8	188
15	THE AGORA HIGH-RESOLUTION GALAXY SIMULATIONS COMPARISON PROJECT. Astrophysical Journal, Supplement Series, 2014, 210, 14.	7.7	185
16	Structure Formation with Cold plus Hot Dark Matter. Astrophysical Journal, 1993, 416, 1.	4.5	171
17	Halo and subhalo demographics with Planck cosmological parameters: Bolshoiâ€“Planck and MultiDarkâ€“Planck simulations. Monthly Notices of the Royal Astronomical Society, 2016, 462, 893-916.	4.4	168
18	The structure of voids. Monthly Notices of the Royal Astronomical Society, 2003, 344, 715-724.	4.4	166

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19	Observing the Dark Matter Density Profile of Isolated Galaxies. Astrophysical Journal, 2003, 598, 260-271.	4.5	166
20	Radiative feedback and the low efficiency of galaxy formation in low-mass haloes at high redshift. Monthly Notices of the Royal Astronomical Society, 2014, 442, 1545-1559.	4.4	165
21	The clustering of galaxies in the SDSS-III Baryon Oscillation Spectroscopic Survey: modelling the clustering and halo occupation distribution of BOSS CMASS galaxies in the Final Data Release. Monthly Notices of the Royal Astronomical Society, 2016, 460, 1173-1187.	4.4	150
22	Merging History as a Function of Halo Environment. Astrophysical Journal, 2001, 546, 223-233.	4.5	148
23	Structure finding in cosmological simulations: the state of affairs. Monthly Notices of the Royal Astronomical Society, 2013, 435, 1618-1658.	4.4	138
24	Secular bar formation in galaxies with a significant amount of dark matter. Monthly Notices of the Royal Astronomical Society, 2003, 345, 406-422.	4.4	134
25	Is There Evidence for Flat Cores in the Halos of Dwarf Galaxies? The Case of NGC 3109 and NGC 6822. Astrophysical Journal, 2007, 657, 773-789.	4.5	119
26	Constrained Simulations of the Real Universe: The Local Supercluster. Astrophysical Journal, 2003, 596, 19-33.	4.5	113
27	Evolution in the Halo Masses of Isolated Galaxies betweenzâˆ¼ 1 andzâˆ¼ 0: From DEEP2 to SDSS. Astrophysical Journal, 2007, 654, 153-171.	4.5	113
28	HALO GAS AND GALAXY DISK KINEMATICS DERIVED FROM OBSERVATIONS AND Î›CDM SIMULATIONS OF Mg II ABSORPTION-SELECTED GALAXIES AT INTERMEDIATE REDSHIFT. Astrophysical Journal, 2010, 711, 533-558.	4.5	106
29	Cold dark matter variant cosmological models â€" I. Simulations and preliminary comparisons. Monthly Notices of the Royal Astronomical Society, 1998, 301, 81-94.	4.4	101
30	MERGERS AND MASS ACCRETION FOR INFALLING HALOS BOTH END WELL OUTSIDE CLUSTER VIRIAL RADII. Astrophysical Journal, 2014, 787, 156.	4.5	101
31	The clustering of galaxies at zÂâ‰ˆ 0.5 in the SDSS-III Data Release 9 BOSS-CMASS sample: a test for the Î›CDM cosmology. Monthly Notices of the Royal Astronomical Society, 2013, 432, 743-760.	4.4	97
32	The Rotation Curves of Dwarf Galaxies: A Problem for Cold Dark Matter?. Astrophysical Journal, 2004, 617, 1059-1076.	4.5	92
33	Abundance of field galaxies. Monthly Notices of the Royal Astronomical Society, 2015, 454, 1798-1810.	4.4	91
34	Redshift-space clustering of SDSS galaxies â€" luminosity dependence, halo occupation distribution, and velocity bias. Monthly Notices of the Royal Astronomical Society, 2015, 453, 4369-4384.	4.4	90
35	The emptiness of voids: yet another overabundance problem for the Î› cold dark matter model. Monthly Notices of the Royal Astronomical Society, 2009, 395, 1915-1924.	4.4	89
36	THE AGORA HIGH-RESOLUTION GALAXY SIMULATIONS COMPARISON PROJECT. II. ISOLATED DISK TEST. Astrophysical Journal, 2016, 833, 202.	4.5	88

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37	THE MASS DISTRIBUTION AND ASSEMBLY OF THE MILKY WAY FROM THE PROPERTIES OF THE MAGELLANIC CLOUDS. Astrophysical Journal, 2011, 743, 40.	4.5	82
38	Effects of baryon removal on the structure of dwarf spheroidal galaxies. Monthly Notices of the Royal Astronomical Society, 2014, 438, 1466-1482.	4.4	81
39	Modelling galaxy clustering: halo occupation distribution versus subhalo matching. Monthly Notices of the Royal Astronomical Society, 2016, 459, 3040-3058.	4.4	79
40	Density profiles of dark matter haloes: diversity and dependence on environment. Monthly Notices of the Royal Astronomical Society, 1999, 310, 527-539.	4.4	78
41	Damped lyman-alpha systems versus cold + hot dark matter. Astrophysical Journal, 1995, 444, 1.	4.5	74
42	Statistics of voids in the two-degree Field Galaxy Redshift Survey. Monthly Notices of the Royal Astronomical Society, 2006, 369, 335-348.	4.4	71
43	The fossil phase in the life of a galaxy group. Monthly Notices of the Royal Astronomical Society, 2008, 386, 2345-2352.	4.4	71
44	The distribution function of dark matter in massive haloes. Monthly Notices of the Royal Astronomical Society, 2008, 388, 815-828.	4.4	68
45	What controls the ionized gas turbulent motions in dwarf galaxies?. Monthly Notices of the Royal Astronomical Society, 2015, 449, 3568-3580.	4.4	61
46	Low-mass galaxy assembly in simulations: regulation of early star formation by radiation from massive stars. Monthly Notices of the Royal Astronomical Society, 2015, 446, 1140-1162.	4.4	58
47	The X-Ray Luminosity Function and Gas Mass Function for Optically Selected Poor and Rich Clusters of Galaxies. Astrophysical Journal, 1996, 467, L49-L52.	4.5	52
48	Dark matter statistics for large galaxy catalogues: power spectra and covariance matrices. Monthly Notices of the Royal Astronomical Society, 2018, 478, 4602-4621.	4.4	49
49	Clustering properties ofg-selected galaxies atzâ¼ 0.8. Monthly Notices of the Royal Astronomical Society, 2016, 461, 3421-3431.	4.4	47
50	DIRECT INSIGHTS INTO OBSERVATIONAL ABSORPTION LINE ANALYSIS METHODS OF THE CIRCUMGALACTIC MEDIUM USING COSMOLOGICAL SIMULATIONS. Astrophysical Journal, 2015, 802, 10.	4.5	42
51	TESTING GRAVITY WITH MOTION OF SATELLITES AROUND GALAXIES: NEWTONIAN GRAVITY AGAINST MODIFIED NEWTONIAN DYNAMICS. Astrophysical Journal, 2009, 690, 1488-1496.	4.5	41
52	Small-Scale Power Spectrum and Correlations in Lambda + Cold Dark Matter Models. Astrophysical Journal, 1996, 466, 13.	4.5	40
53	The Dependence of Galaxy Clustering on Stellar-mass Assembly History for LRGs. Astrophysical Journal Letters, 2017, 848, L2.	8.3	37
54	The dark matter assembly of the Local Group in constrained cosmological simulations of a Î› cold dark matter universe. Monthly Notices of the Royal Astronomical Society, 2011, 417, 1434-1443.	4.4	34

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55	Cold + Hot and Cold Dark Matter Cosmologies: Analysis of Numerical Simulations. Astrophysical Journal, 1997, 474, 533-552.	4.5	33
56	Phase-space structure of dark matter haloes: scale-invariant probability density function driven by substructure. Monthly Notices of the Royal Astronomical Society, 2004, 353, 15-29.	4.4	33
57	The Alignment of Dark Matter Halos with the Cosmic Web. Astrophysical Journal, 2006, 652, L75-L78.	4.5	33
58	Accurate mass and velocity functions of dark matter haloes. Monthly Notices of the Royal Astronomical Society, 2017, 469, 4157-4174.	4.4	33
59	Clustering of quasars in the first year of the SDSS-IV eBOSS survey: interpretation and halo occupation distribution. Monthly Notices of the Royal Astronomical Society, 2017, 468, 728-740.	4.4	32
60	Clustering and halo abundances in early dark energy cosmological models. Monthly Notices of the Royal Astronomical Society, 2021, 504, 769-781.	4.4	31
61	Dynamics of barred galaxies: effects of disc height. Monthly Notices of the Royal Astronomical Society, 2009, 398, 1027-1040.	4.4	30
62	Halo abundance matching: accuracy and conditions for numerical convergence. Monthly Notices of the Royal Astronomical Society, 2015, 447, 3693-3707.	4.4	26
63	Density distribution of the cosmological matter field. Monthly Notices of the Royal Astronomical Society, 2018, 481, 4588-4601.	4.4	26
64	The dependence of halo bias on age, concentration, and spin. Monthly Notices of the Royal Astronomical Society, 2019, 487, 1570-1579.	4.4	26
65	Sizes of voids as a test for dark matter models. Astrophysical Journal, 1994, 437, L71.	4.5	26
66	The Relation between Galaxy ISM and Circumgalactic O vi Gas Kinematics Derived from Observations and Î›CDM Simulations. Astrophysical Journal, 2019, 870, 137.	4.5	25
67	Galaxy groups in cold + hot dark matter and cold dark matter universes: Comparison with CfA data. Astrophysical Journal, 1994, 422, L45.	4.5	25
68	Cosmological Constraints on Î©_m and Ïƒ₈ from Cluster Abundances Using the GalWCat19 Optical-spectroscopic SDSS Catalog. Astrophysical Journal, 2020, 901, 90.	4.5	25
69	Galaxy clustering dependence on the [Oâ€‰ii] emission line luminosity in the local Universe. Monthly Notices of the Royal Astronomical Society, 2017, 472, 550-558.	4.4	22
70	The zero-point of the cluster-cluster correlation function: A key test of cosmological power spectra. Astrophysical Journal, 1994, 428, 399.	4.5	18
71	The completed SDSS-IV extended Baryon Oscillation Spectroscopic Survey: GLAM-QPM mock galaxy catalogues for the emission line galaxy sample. Monthly Notices of the Royal Astronomical Society, 2020, 498, 5251-5262.	4.4	16
72	Suppressing cosmic variance with paired-and-fixed cosmological simulations: average properties and covariances of dark matter clustering statistics. Monthly Notices of the Royal Astronomical Society, 2020, 496, 3862-3869.	4.4	16

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73	Statistical Tests for CHDM and ΐCDM Cosmologies. Astrophysical Journal, 1997, 479, 580-591.	4.5	16
74	GALAXY THREE-POINT CORRELATION FUNCTIONS AND HALO/SUBHALO MODELS. Astrophysical Journal, 2016, 831, 3.	4.5	15
75	GalWeight: A New and Effective Weighting Technique for Determining Galaxy Cluster and Group Membership. Astrophysical Journal, 2018, 861, 22.	4.5	15
76	Fast full N-body simulations of generic modified gravity: conformal coupling models. Journal of Cosmology and Astroparticle Physics, 2022, 2022, 018.	5.4	15
77	GalWeight Application: A Publicly Available Catalog of Dynamical Parameters of 1800 Galaxy Clusters from SDSS-DR13, (GalWCat19). Astrophysical Journal, Supplement Series, 2020, 246, 2.	7.7	13
78	Fast full N-body simulations of generic modified gravity: derivative coupling models. Journal of Cosmology and Astroparticle Physics, 2022, 2022, 048.	5.4	13
79	Dark matter and cosmology: CDM with a cosmological constant (ACDM) vs. CDM with hot dark matter (CHDM). Nuclear Physics, Section B, Proceedings Supplements, 1996, 51, 30-38.	0.4	12
80	Effects of long-wavelength fluctuations in large galaxy surveys. Monthly Notices of the Royal Astronomical Society, 2019, 489, 1684-1696.	4.4	11
81	MultiDark clusters: galaxy cluster mock light-cones, eROSITA, and the cluster power spectrum. Monthly Notices of the Royal Astronomical Society, 2018, 480, 987-1005.	4.4	10
82	Visualization of Cold + Hot and Cold Dark Matter Cosmologies versus CfA1 Data. Astrophysical Journal, 1998, 495, 1-8.	4.5	9
83	Building a digital twin of a luminous red galaxy spectroscopic survey: galaxy properties and clustering covariance. Monthly Notices of the Royal Astronomical Society, 2021, 503, 2318-2339.	4.4	9
84	Cold + Hot Dark Matter. Nuclear Physics, Section B, Proceedings Supplements, 1995, 43, 133-140.	0.4	2
85	Merging Rate of Dark Matter Halos: Evolution and Dependence on Environment. Astrophysics and Space Science, 1999, 269/270, 345-348.	1.4	2
86	The ART of Cosmological Simulations. , 2009, , 29-43.		2
87	The role of stellar feedback in the formation of galactic disks and bulges in a ΐCDM Universe. Proceedings of the International Astronomical Union, 2007, 3, 33-34.	0.0	0
88	Properties of Voids in the Local Volume. Thirty Years of Astronomical Discovery With UKIRT, 2008, , 31-36.	0.3	0