

Anatoly Klypin

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Fast full N-body simulations of generic modified gravity: derivative coupling models. <i>Journal of Cosmology and Astroparticle Physics</i> , 2022, 2022, 048.	5.4	13
2	Fast full N-body simulations of generic modified gravity: conformal coupling models. <i>Journal of Cosmology and Astroparticle Physics</i> , 2022, 2022, 018.	5.4	15
3	Building a digital twin of a luminous red galaxy spectroscopic survey: galaxy properties and clustering covariance. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 503, 2318-2339.	4.4	9
4	Clustering and halo abundances in early dark energy cosmological models. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 504, 769-781.	4.4	31
5	The completed SDSS-IV extended Baryon Oscillation Spectroscopic Survey: GLAM-QPM mock galaxy catalogues for the emission line galaxy sample. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 498, 5251-5262.	4.4	16
6	Suppressing cosmic variance with paired-and-fixed cosmological simulations: average properties and covariances of dark matter clustering statistics. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 496, 3862-3869.	4.4	16
7	GalWeight Application: A Publicly Available Catalog of Dynamical Parameters of 1800 Galaxy Clusters from SDSS-DR13, (GalWCat19). <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 2.	7.7	13
8	Cosmological Constraints on $\hat{\sigma}_m$ and \hat{f}_8 from Cluster Abundances Using the GalWCat19 Optical-spectroscopic SDSS Catalog. <i>Astrophysical Journal</i> , 2020, 901, 90.	4.5	25
9	Effects of long-wavelength fluctuations in large galaxy surveys. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 489, 1684-1696.	4.4	11
10	The dependence of halo bias on age, concentration, and spin. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 487, 1570-1579.	4.4	26
11	The Relation between Galaxy ISM and Circumgalactic O vi Gas Kinematics Derived from Observations and Λ CDM Simulations. <i>Astrophysical Journal</i> , 2019, 870, 137.	4.5	25
12	Density distribution of the cosmological matter field. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 481, 4588-4601.	4.4	26
13	MultiDark clusters: galaxy cluster mock light-cones, eROSITA, and the cluster power spectrum. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 480, 987-1005.	4.4	10
14	Dark matter statistics for large galaxy catalogues: power spectra and covariance matrices. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 478, 4602-4621.	4.4	49
15	GalWeight: A New and Effective Weighting Technique for Determining Galaxy Cluster and Group Membership. <i>Astrophysical Journal</i> , 2018, 861, 22.	4.5	15
16	Accurate mass and velocity functions of dark matter haloes. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, 4157-4174.	4.4	33
17	The Dependence of Galaxy Clustering on Stellar-mass Assembly History for LRGs. <i>Astrophysical Journal Letters</i> , 2017, 848, L2.	8.3	37
18	Clustering of quasars in the first year of the SDSS-IV eBOSS survey: interpretation and halo occupation distribution. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 468, 728-740.	4.4	32

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19	Galaxy clustering dependence on the [OIII] emission line luminosity in the local Universe. Monthly Notices of the Royal Astronomical Society, 2017, 472, 550-558.	4.4	22
20	Modelling galaxy clustering: halo occupation distribution versus subhalo matching. Monthly Notices of the Royal Astronomical Society, 2016, 459, 3040-3058.	4.4	79
21	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
22	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
23	Halo and subhalo demographics with Planck cosmological parameters: Bolshoi Planck and MultiDark Planck simulations. Monthly Notices of the Royal Astronomical Society, 2016, 462, 893-916.	4.4	168
24	Clustering properties of g -selected galaxies at $z \approx 0.8$. Monthly Notices of the Royal Astronomical Society, 2016, 461, 3421-3431.	4.4	47
25	GALAXY THREE-POINT CORRELATION FUNCTIONS AND HALO/SUBHALO MODELS. Astrophysical Journal, 2016, 831, 3.	4.5	15
26	THE AGORA HIGH-RESOLUTION GALAXY SIMULATIONS COMPARISON PROJECT. II. ISOLATED DISK TEST. Astrophysical Journal, 2016, 833, 202.	4.5	88
27	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
28	Redshift-space clustering of SDSS galaxies luminosity dependence, halo occupation distribution, and velocity bias. Monthly Notices of the Royal Astronomical Society, 2015, 453, 4369-4384.	4.4	90
29	What controls the ionized gas turbulent motions in dwarf galaxies?. Monthly Notices of the Royal Astronomical Society, 2015, 449, 3568-3580.	4.4	61
30	Abundance of field galaxies. Monthly Notices of the Royal Astronomical Society, 2015, 454, 1798-1810.	4.4	91
31	Halo abundance matching: accuracy and conditions for numerical convergence. Monthly Notices of the Royal Astronomical Society, 2015, 447, 3693-3707.	4.4	26
32	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
33	DIRECT INSIGHTS INTO OBSERVATIONAL ABSORPTION LINE ANALYSIS METHODS OF THE CIRCUMGALACTIC MEDIUM USING COSMOLOGICAL SIMULATIONS. Astrophysical Journal, 2015, 802, 10.	4.5	42
34	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
35	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
36	THE AGORA HIGH-RESOLUTION GALAXY SIMULATIONS COMPARISON PROJECT. Astrophysical Journal, Supplement Series, 2014, 210, 14.	7.7	185

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37	MERGERS AND MASS ACCRETION FOR INFALLING HALOS BOTH END WELL OUTSIDE CLUSTER VIRIAL RADII. <i>Astrophysical Journal</i> , 2014, 787, 156.	4.5	101
38	Structure finding in cosmological simulations: the state of affairs. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 435, 1618-1658.	4.4	138
39	The clustering of galaxies at $z \lesssim 0.5$ in the SDSS-III Data Release 9 BOSS-CMASS sample: a test for the Λ CDM cosmology. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 432, 743-760.	4.4	97
40	THE MASS DISTRIBUTION AND ASSEMBLY OF THE MILKY WAY FROM THE PROPERTIES OF THE MAGELLANIC CLOUDS. <i>Astrophysical Journal</i> , 2011, 743, 40.	4.5	82
41	Haloess gone MAD...: The Halo-Finder Comparison Project. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 415, 2293-2318.	4.4	302
42	The dark matter assembly of the Local Group in constrained cosmological simulations of a Λ cold dark matter universe. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 417, 1434-1443.	4.4	34
43	GALAXIES IN Λ CDM WITH HALO ABUNDANCE MATCHING: LUMINOSITY-VELOCITY RELATION, BARYONIC MASS-VELOCITY RELATION, VELOCITY FUNCTION, AND CLUSTERING. <i>Astrophysical Journal</i> , 2011, 742, 16.	4.5	240
44	HALO GAS AND GALAXY DISK KINEMATICS DERIVED FROM OBSERVATIONS AND Λ CDM SIMULATIONS OF Mg II ABSORPTION-SELECTED GALAXIES AT INTERMEDIATE REDSHIFT. <i>Astrophysical Journal</i> , 2010, 711, 533-558.	4.5	106
45	THE LARGE-SCALE BIAS OF DARK MATTER HALOS: NUMERICAL CALIBRATION AND MODEL TESTS. <i>Astrophysical Journal</i> , 2010, 724, 878-886.	4.5	733
46	TESTING GRAVITY WITH MOTION OF SATELLITES AROUND GALAXIES: NEWTONIAN GRAVITY AGAINST MODIFIED NEWTONIAN DYNAMICS. <i>Astrophysical Journal</i> , 2009, 690, 1488-1496.	4.5	41
47	THE ROLE OF STELLAR FEEDBACK IN THE FORMATION OF GALAXIES. <i>Astrophysical Journal</i> , 2009, 695, 292-309.	4.5	239
48	The emptiness of voids: yet another overabundance problem for the Λ cold dark matter model. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009, 395, 1915-1924.	4.4	89
49	Dynamics of barred galaxies: effects of disc height. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009, 398, 1027-1040.	4.4	30
50	The ART of Cosmological Simulations. , 2009, , 29-43.		2
51	The fossil phase in the life of a galaxy group. <i>Monthly Notices of the Royal Astronomical Society</i> , 2008, 386, 2345-2352.	4.4	71
52	The distribution function of dark matter in massive haloes. <i>Monthly Notices of the Royal Astronomical Society</i> , 2008, 388, 815-828.	4.4	68
53	Toward a Halo Mass Function for Precision Cosmology: The Limits of Universality. <i>Astrophysical Journal</i> , 2008, 688, 709-728.	4.5	1,387
54	Properties of Voids in the Local Volume. <i>Thirty Years of Astronomical Discovery With UKIRT</i> , 2008, , 31-36.	0.3	0

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55	Evolution in the Halo Masses of Isolated Galaxies between $z \approx 1$ and $z \approx 0$: From DEEP2 to SDSS. <i>Astrophysical Journal</i> , 2007, 654, 153-171.	4.5	113
56	Is There Evidence for Flat Cores in the Halos of Dwarf Galaxies? The Case of NGC 3109 and NGC 6822. <i>Astrophysical Journal</i> , 2007, 657, 773-789.	4.5	119
57	The role of stellar feedback in the formation of galactic disks and bulges in a Λ CDM Universe. <i>Proceedings of the International Astronomical Union</i> , 2007, 3, 33-34.	0.0	0
58	The Alignment of Dark Matter Halos with the Cosmic Web. <i>Astrophysical Journal</i> , 2006, 652, L75-L78.	4.5	33
59	Statistics of voids in the two-degree Field Galaxy Redshift Survey. <i>Monthly Notices of the Royal Astronomical Society</i> , 2006, 369, 335-348.	4.4	71
60	Phase-space structure of dark matter haloes: scale-invariant probability density function driven by substructure. <i>Monthly Notices of the Royal Astronomical Society</i> , 2004, 353, 15-29.	4.4	33
61	The Rotation Curves of Dwarf Galaxies: A Problem for Cold Dark Matter?. <i>Astrophysical Journal</i> , 2004, 617, 1059-1076.	4.5	92
62	The structure of voids. <i>Monthly Notices of the Royal Astronomical Society</i> , 2003, 344, 715-724.	4.4	166
63	Secular bar formation in galaxies with a significant amount of dark matter. <i>Monthly Notices of the Royal Astronomical Society</i> , 2003, 345, 406-422.	4.4	134
64	Constrained Simulations of the Real Universe: The Local Supercluster. <i>Astrophysical Journal</i> , 2003, 596, 19-33.	4.5	113
65	Observing the Dark Matter Density Profile of Isolated Galaxies. <i>Astrophysical Journal</i> , 2003, 598, 260-271.	4.5	166
66	Sloan Digital Sky Survey: Early Data Release. <i>Astronomical Journal</i> , 2002, 123, 485-548.	4.7	2,003
67	Λ CDM-based Models for the Milky Way and M31. I. Dynamical Models. <i>Astrophysical Journal</i> , 2002, 573, 597-613.	4.5	579
68	Constrained Simulations of the Real Universe. II. Observational Signatures of Intergalactic Gas in the Local Supercluster Region. <i>Astrophysical Journal</i> , 2002, 571, 563-575.	4.5	227
69	Resolving the Structure of Cold Dark Matter Halos. <i>Astrophysical Journal</i> , 2001, 554, 903-915.	4.5	384
70	Merging History as a Function of Halo Environment. <i>Astrophysical Journal</i> , 2001, 546, 223-233.	4.5	148
71	Where Are the Missing Galactic Satellites?. <i>Astrophysical Journal</i> , 1999, 522, 82-92.	4.5	2,181
72	Density profiles of dark matter haloes: diversity and dependence on environment. <i>Monthly Notices of the Royal Astronomical Society</i> , 1999, 310, 527-539.	4.4	78

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73	Merging Rate of Dark Matter Halos: Evolution and Dependence on Environment. <i>Astrophysics and Space Science</i> , 1999, 269/270, 345-348.	1.4	2
74	Galaxies in N-body Simulations: Overcoming the Overmerging Problem. <i>Astrophysical Journal</i> , 1999, 516, 530-551.	4.5	431
75	Cold dark matter variant cosmological models – I. Simulations and preliminary comparisons. <i>Monthly Notices of the Royal Astronomical Society</i> , 1998, 301, 81-94.	4.4	101
76	Visualization of Cold + Hot and Cold Dark Matter Cosmologies versus CfA1 Data. <i>Astrophysical Journal</i> , 1998, 495, 1-8.	4.5	9
77	Cold + Hot and Cold Dark Matter Cosmologies: Analysis of Numerical Simulations. <i>Astrophysical Journal</i> , 1997, 474, 533-552.	4.5	33
78	Statistical Tests for CHDM and Λ CDM Cosmologies. <i>Astrophysical Journal</i> , 1997, 479, 580-591.	4.5	16
79	The X-Ray Luminosity Function and Gas Mass Function for Optically Selected Poor and Rich Clusters of Galaxies. <i>Astrophysical Journal</i> , 1996, 467, L49-L52.	4.5	52
80	Dark matter and cosmology: CDM with a cosmological constant (Λ CDM) vs. CDM with hot dark matter (CHDM). <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 1996, 51, 30-38.	0.4	12
81	Small-Scale Power Spectrum and Correlations in Lambda + Cold Dark Matter Models. <i>Astrophysical Journal</i> , 1996, 466, 13.	4.5	40
82	Cold + Hot Dark Matter. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 1995, 43, 133-140.	0.4	2
83	Cold+Hot Dark Matter Cosmology with $m(\tilde{\nu}_{1/2}^{\pm}) \approx m(\tilde{\nu}_{1/2}^{\pm, \pm}) \approx 2.4\text{eV}$. <i>Physical Review Letters</i> , 1995, 74, 2160-2163.	4.5	183
84	Damped lyman-alpha systems versus cold + hot dark matter. <i>Astrophysical Journal</i> , 1995, 444, 1.	4.5	74
85	The zero-point of the cluster-cluster correlation function: A key test of cosmological power spectra. <i>Astrophysical Journal</i> , 1994, 428, 399.	4.5	18
86	Galaxy groups in cold + hot dark matter and cold dark matter universes: Comparison with CfA data. <i>Astrophysical Journal</i> , 1994, 422, L45.	4.5	25
87	Sizes of voids as a test for dark matter models. <i>Astrophysical Journal</i> , 1994, 437, L71.	4.5	26
88	Structure Formation with Cold plus Hot Dark Matter. <i>Astrophysical Journal</i> , 1993, 416, 1.	4.5	171