

Raul Angulo

List of Publications by Year in descending order

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Version: 2024-02-01

99
papers

5,416
citations

94381

37
h-index

88593

70
g-index

100
all docs

100
docs citations

100
times ranked

3556
citing authors

#	ARTICLE	IF	CITATIONS
1	Galaxy formation in the Planck cosmology â€“ I. Matching the observed evolution of star formation rates, colours and stellar masses. Monthly Notices of the Royal Astronomical Society, 2015, 451, 2663-2680.	1.6	467
2	Scaling relations for galaxy clusters in the Millennium-XXL simulation. Monthly Notices of the Royal Astronomical Society, 2012, 426, 2046-2062.	1.6	375
3	Galaxy formation in WMAP1 and WMAP7 cosmologies. Monthly Notices of the Royal Astronomical Society, 2013, 428, 1351-1365.	1.6	266
4	The massâ€“concentrationâ€“redshift relation of cold and warm dark matter haloes. Monthly Notices of the Royal Astronomical Society, 2016, 460, 1214-1232.	1.6	227
5	The massâ€“concentrationâ€“redshift relation of cold dark matter haloes. Monthly Notices of the Royal Astronomical Society, 2014, 441, 378-388.	1.6	204
6	Simulations of the galaxy population constrained by observations from $z = 3$ to the present day: implications for galactic winds and the fate of their ejecta. Monthly Notices of the Royal Astronomical Society, 2013, 431, 3373-3395.	1.6	196
7	The mass profile and accretion history of cold dark matter haloes. Monthly Notices of the Royal Astronomical Society, 2013, 432, 1103-1113.	1.6	161
8	The universality of the virial halo mass function and models for non-universality of other halo definitions. Monthly Notices of the Royal Astronomical Society, 2016, 456, 2486-2504.	1.6	161
9	The detectability of baryonic acoustic oscillations in future galaxy surveys. Monthly Notices of the Royal Astronomical Society, 0, 383, 755-776.	1.6	156
10	Numerical simulations of the dark universe: State of the art and the next decade. Physics of the Dark Universe, 2012, 1, 50-93.	1.8	137
11	The warm dark matter halo mass function below the cut-off scale. Monthly Notices of the Royal Astronomical Society, 2013, 434, 3337-3347.	1.6	134
12	Subhalo abundance matching and assembly bias in the EAGLE simulation. Monthly Notices of the Royal Astronomical Society, 2016, 460, 3100-3118.	1.6	122
13	Cosmological N -body simulations with suppressed variance. Monthly Notices of the Royal Astronomical Society: Letters, 2016, 462, L1-L5.	1.2	118
14	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. Monthly Notices of the Royal Astronomical Society, 2013, 432, 743-760.	1.6	97
15	One simulation to fit them all - changing the background parameters of a cosmological N -body simulation. Monthly Notices of the Royal Astronomical Society, 2010, , .	1.6	93
16	The one-loop matter bispectrum in the Effective Field Theory of Large Scale Structures. Journal of Cosmology and Astroparticle Physics, 2015, 2015, 039-039.	1.9	91
17	The fate of substructures in cold dark matter haloes. Monthly Notices of the Royal Astronomical Society, 2009, 399, 983-995.	1.6	88
18	The dynamical state and massâ€“concentration relation of galaxy clusters. Monthly Notices of the Royal Astronomical Society, 2012, 427, 1322-1328.	1.6	85

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19	The properties of cosmic velocity fields. Monthly Notices of the Royal Astronomical Society, 2015, 454, 3920-3937.	1.6	79
20	The BACCO simulation project: exploiting the full power of large-scale structure for cosmology. Monthly Notices of the Royal Astronomical Society, 2021, 507, 5869-5881.	1.6	79
21	The assembly bias of dark matter haloes to higher orders. Monthly Notices of the Royal Astronomical Society, 2008, 387, 921-932.	1.6	78
22	The Imprint of Neutrinos on Clustering in Redshift Space. Astrophysical Journal, 2018, 861, 53.	1.6	66
23	Galaxy formation in the Planck cosmology " IV. Mass and environmental quenching, conformity and clustering. Monthly Notices of the Royal Astronomical Society, 2017, 469, 2626-2645.	1.6	65
24	An adaptively refined phase"space element method for cosmological simulations and collisionless dynamics. Monthly Notices of the Royal Astronomical Society, 2016, 455, 1115-1133.	1.6	64
25	On the effects of line-of-sight structures on lensing flux-ratio anomalies in a Λ CDM universe. Monthly Notices of the Royal Astronomical Society, 2012, 421, 2553-2567.	1.6	59
26	Large-scale dark matter simulations. Living Reviews in Solar Physics, 2022, 8, 1.	5.0	57
27	On the statistics of biased tracers in the Effective Field Theory of Large Scale Structures. Journal of Cosmology and Astroparticle Physics, 2015, 2015, 029-029.	1.9	56
28	Modelling the large-scale mass density field of the universe as a function of cosmology and baryonic physics. Monthly Notices of the Royal Astronomical Society, 2020, 495, 4800-4819.	1.6	54
29	The miniJPAS survey: A preview of the Universe in 56 colors. Astronomy and Astrophysics, 2021, 653, A31.	2.1	54
30	Universality of dark matter haloes shape over six decades in mass: insights from the Millennium XXL and SBARBINE simulations. Monthly Notices of the Royal Astronomical Society, 2015, 449, 3171-3182.	1.6	53
31	Earth-mass haloes and the emergence of NFW density profiles. Monthly Notices of the Royal Astronomical Society, 2017, 471, 4687-4701.	1.6	53
32	The birth and growth of neutralino haloes. Monthly Notices of the Royal Astronomical Society, 2010, 401, 1796-1803.	1.6	52
33	Cosmological constraints from the CFHTLenS shear measurements using a new, accurate, and flexible way of predicting non-linear mass clustering. Monthly Notices of the Royal Astronomical Society, 2015, 448, 364-375.	1.6	51
34	Accurate initial conditions for cosmological N -body simulations: minimizing truncation and discreteness errors. Monthly Notices of the Royal Astronomical Society, 2020, 500, 663-683.	1.6	48
35	The Millennium Run Observatory: first light. Monthly Notices of the Royal Astronomical Society, 2013, 428, 778-803.	1.6	45
36	How closely do baryons follow dark matter on large scales?. Monthly Notices of the Royal Astronomical Society, 2013, 434, 1756-1764.	1.6	44

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37	A lightcone catalogue from the Millennium-XXL simulation. Monthly Notices of the Royal Astronomical Society, 2017, 470, 4646-4661.	1.6	41
38	The BACCO simulation project: a baryonification emulator with neural networks. Monthly Notices of the Royal Astronomical Society, 2021, 506, 4070-4082.	1.6	40
39	The journey of QSO haloes from $z \approx 6$ to the present. Monthly Notices of the Royal Astronomical Society, 2012, 425, 2722-2730.	1.6	37
40	Very massive tracers and higher derivative biases. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 009-009.	1.9	36
41	Linearization with cosmological perturbation theory. Monthly Notices of the Royal Astronomical Society, 2012, 425, 2443-2454.	1.6	35
42	Cosmology with clustering anisotropies: disentangling dynamic and geometric distortions in galaxy redshift surveys. Monthly Notices of the Royal Astronomical Society, 2012, 426, 2566-2580.	1.6	34
43	Simulations of quintessential cold dark matter: beyond the cosmological constant. Monthly Notices of the Royal Astronomical Society, 2010, 401, 2181-2201.	1.6	33
44	Estimating cosmic velocity fields from density fields and tidal tensors. Monthly Notices of the Royal Astronomical Society, 2012, 425, 2422-2435.	1.6	33
45	Statistical and systematic errors in redshift-space distortion measurements from large surveys. Monthly Notices of the Royal Astronomical Society, 2012, 427, 2420-2436.	1.6	33
46	How to add massive neutrinos to your Λ CDM simulation “ extending cosmology rescaling algorithms. Monthly Notices of the Royal Astronomical Society, 2019, 489, 5938-5951.	1.6	33
47	Einasto Profiles and the Dark Matter Power Spectrum. Monthly Notices of the Royal Astronomical Society: Letters, 0, , .	1.2	31
48	Galaxy formation on the largest scales: the impact of astrophysics on the baryonic acoustic oscillation peak. Monthly Notices of the Royal Astronomical Society, 2014, 442, 2131-2144.	1.6	30
49	Cosmological parameter estimation via iterative emulation of likelihoods. Monthly Notices of the Royal Astronomical Society, 2020, 499, 5257-5268.	1.6	29
50	Matched filter optimization of kSZ measurements with a reconstructed cosmological flow field. Monthly Notices of the Royal Astronomical Society, 2014, 443, 2311-2326.	1.6	28
51	Precision modelling of the matter power spectrum in a Planck-like Universe. Monthly Notices of the Royal Astronomical Society, 2019, 486, 1448-1479.	1.6	28
52	The impact of galaxy formation on satellite kinematics and redshift-space distortions. Monthly Notices of the Royal Astronomical Society, 2018, 475, 2530-2544.	1.6	27
53	3σ -accurate predictions for the clustering of dark matter, haloes, and subhaloes, over a wide range of cosmologies and scales. Monthly Notices of the Royal Astronomical Society, 2020, 499, 4905-4917.	1.6	27
54	A flexible subhalo abundance matching model for galaxy clustering in redshift space. Monthly Notices of the Royal Astronomical Society, 2021, 508, 175-189.	1.6	26

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55	A flexible modelling of galaxy assembly bias. Monthly Notices of the Royal Astronomical Society, 2021, 504, 5205-5220.	1.6	25
56	The manifestation of secondary bias on the galaxy population from IllustrisTNG300. Monthly Notices of the Royal Astronomical Society, 2020, 496, 1182-1196.	1.6	23
57	Simultaneous modelling of matter power spectrum and bispectrum in the presence of baryons. Monthly Notices of the Royal Astronomical Society, 2021, 503, 3596-3609.	1.6	23
58	The effect of photometric redshift uncertainties on galaxy clustering and baryonic acoustic oscillations. Monthly Notices of the Royal Astronomical Society, 2018, 477, 3892-3909.	1.6	22
59	The effects of halo alignment and shape on the clustering of galaxies. Monthly Notices of the Royal Astronomical Society, 2012, 424, 2954-2960.	1.6	21
60	Cosmic structure and dynamics of the local Universe. Monthly Notices of the Royal Astronomical Society: Letters, 2012, 427, L35-L39.	1.2	20
61	Non-fiducial cosmological test from geometrical and dynamical distortions around voids. Monthly Notices of the Royal Astronomical Society, 2019, 485, 5761-5772.	1.6	19
62	The galaxy correlation function as a constraint on galaxy formation physics. Monthly Notices of the Royal Astronomical Society, 2016, 458, 934-949.	1.6	18
63	J-PLUS: Synthetic galaxy catalogues with emission lines for photometric surveys. Astronomy and Astrophysics, 2019, 631, A82.	2.1	18
64	Non-universality of the mass function: dependence on the growth rate and power spectrum shape. Monthly Notices of the Royal Astronomical Society, 2021, 509, 6077-6090.	1.6	18
65	Mock galaxy redshift catalogues from simulations: implications for Pan-STARRS1. Monthly Notices of the Royal Astronomical Society, 2009, 395, 1185-1203.	1.6	17
66	Simulating the complexity of the dark matter sheet I: numerical algorithms. Monthly Notices of the Royal Astronomical Society, 2020, 495, 4943-4964.	1.6	17
67	Measuring the hydrostatic mass bias in galaxy clusters by combining Sunyaev-Zeldovich and CMB lensing data. Astronomy and Astrophysics, 2018, 610, L4.	2.1	17
68	Redshift-space effects in voids and their impact on cosmological tests. Part I: the void size function. Monthly Notices of the Royal Astronomical Society, 2020, 500, 911-925.	1.6	17
69	Semi-analytic galaxy formation in early dark energy cosmologies. Monthly Notices of the Royal Astronomical Society, 2012, 426, 2335-2341.	1.6	16
70	Towards noiseless gravitational lensing simulations. Monthly Notices of the Royal Astronomical Society, 2014, 444, 2925-2937.	1.6	16
71	Extending the halo mass resolution of N-body simulations. Monthly Notices of the Royal Astronomical Society, 2014, 442, 3256-3265.	1.6	16
72	An exploration of galaxy-galaxy lensing and galaxy clustering in the Millennium-XXL simulation. Monthly Notices of the Royal Astronomical Society, 2015, 451, 1418-1444.	1.6	16

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73	Measuring the evolution of intergalactic gas from $z=0$ to 5 using the kinematic Sunyaev-Zeldovich effect. Monthly Notices of the Royal Astronomical Society, 2021, 503, 1798-1814.	1.6	16
74	The galaxy size-halo mass scaling relations and clustering properties of central and satellite galaxies. Monthly Notices of the Royal Astronomical Society, 2021, 505, 3192-3205.	1.6	15
75	Are the superstructures in the two-degree field galaxy redshift survey a problem for hierarchical models?. Monthly Notices of the Royal Astronomical Society, 2011, 413, 1311-1317.	1.6	13
76	Precise clustering and density evolution of redMaPPer galaxy clusters versus MXXL simulation. Monthly Notices of the Royal Astronomical Society, 2017, 466, 2658-2674.	1.6	13
77	The Clustering of Galaxies in the Completed SDSS-III Baryon Oscillation Spectroscopic Survey: Cosmic Flows and Cosmic Web from Luminous Red Galaxies. Monthly Notices of the Royal Astronomical Society, 0, , stx178.	1.6	13
78	One simulation to have them all: performance of the Bias Assignment Method against N-body simulations. Monthly Notices of the Royal Astronomical Society, 0, , .	1.6	13
79	The cosmological dependence of halo and galaxy assembly bias. Monthly Notices of the Royal Astronomical Society, 2021, 507, 3412-3422.	1.6	13
80	The boosted potential. Monthly Notices of the Royal Astronomical Society, 2021, 508, 5196-5216.	1.6	13
81	The bias of dark matter tracers: assessing the accuracy of mapping techniques. Monthly Notices of the Royal Astronomical Society, 2020, 493, 586-593.	1.6	12
82	Accelerating Large-Scale-Structure data analyses by emulating Boltzmann solvers and Lagrangian Perturbation Theory. Open Research Europe, 0, 1, 152.	2.0	12
83	Exploring the non-linear density field in the Millennium Simulations with tessellations I. The probability distribution function. Monthly Notices of the Royal Astronomical Society, 2013, 435, 2968-2981.	1.6	11
84	Joint galaxy-galaxy lensing and clustering constraints on galaxy formation. Monthly Notices of the Royal Astronomical Society, 2020, 498, 5804-5833.	1.6	11
85	Simulating the complexity of the dark matter sheet II. Halo and subhalo mass functions for non-cold dark matter models. Monthly Notices of the Royal Astronomical Society, 2021, 509, 1703-1719.	1.6	11
86	Redshift-space effects in voids and their impact on cosmological tests II. The void-galaxy cross-correlation function. Monthly Notices of the Royal Astronomical Society, 2021, 509, 1871-1884.	1.6	11
87	Priors on Lagrangian bias parameters from galaxy formation modelling. Monthly Notices of the Royal Astronomical Society, 2022, 514, 5443-5456.	1.6	11
88	Bayesian redshift-space distortions correction from galaxy redshift surveys. Monthly Notices of the Royal Astronomical Society: Letters, 0, , .	0.7	9
89	Halo mass and weak galaxy-galaxy lensing profiles in rescaled cosmological N-body simulations. Monthly Notices of the Royal Astronomical Society, 0, , .	1.6	9
90	Modelling galaxy clustering in redshift space with a Lagrangian bias formalism and N-body simulations. Monthly Notices of the Royal Astronomical Society, 2022, 514, 3993-4007.	1.6	9

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91	Characterizing strong lensing galaxy clusters using the Millennium-XXL and moka simulations. Monthly Notices of the Royal Astronomical Society, 2016, 462, 167-180.	1.6	8
92	Forecasts on neutrino mass constraints from the redshift-space two-point correlation function. Monthly Notices of the Royal Astronomical Society, 2016, 462, 4208-4219.	1.6	8
93	Quantifying the impact of baryon-CDM perturbations on halo clustering and baryon fraction. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 023.	1.9	8
94	CHARACTERIZING THE BEST COSMIC TELESCOPES WITH THE MILLENNIUM SIMULATIONS. Astrophysical Journal, 2014, 785, 59.	1.6	6
95	Density weighted angular redshift fluctuations: a new cosmological observable. Monthly Notices of the Royal Astronomical Society: Letters, 2021, 503, L56-L61.	1.2	5
96	Tomographic constraints on gravity from angular redshift fluctuations in the late Universe. Monthly Notices of the Royal Astronomical Society: Letters, 2021, 503, L62-L66.	1.2	5
97	Non-halo structures and their effects on gravitational lensing. Monthly Notices of the Royal Astronomical Society, 2022, 511, 6019-6032.	1.6	3
98	Accelerating Large-Scale-Structure data analyses by emulating Boltzmann solvers and Lagrangian Perturbation Theory. Open Research Europe, 0, 1, 152.	2.0	2
99	How BAO measurements can fail to detect quintessence. , 2010, , .		0