Cheng Zhao

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/3349275/publications.pdf

Version: 2024-02-01

60 papers	4,114 citations	172457 29 h-index	155660 55 g-index
60 all docs	60 docs citations	60 times ranked	2315 citing authors

#	Article	IF	Citations
1	THE SDSS-IV EXTENDED BARYON OSCILLATION SPECTROSCOPIC SURVEY: OVERVIEW AND EARLY DATA. Astronomical Journal, 2016, 151, 44.	4.7	582
2	Completed SDSS-IV extended Baryon Oscillation Spectroscopic Survey: Cosmological implications from two decades of spectroscopic surveys at the Apache Point Observatory. Physical Review D, 2021, 103, .	4.7	527
3	The clustering of the SDSS-IV extended Baryon Oscillation Spectroscopic Survey DR14 quasar sample: first measurement of baryon acoustic oscillations between redshift 0.8 and 2.2. Monthly Notices of the Royal Astronomical Society, 2018, 473, 4773-4794.	4.4	301
4	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
5	The completed SDSS-IV extended Baryon Oscillation Spectroscopic Survey: measurement of the BAO and growth rate of structure of the luminous red galaxy sample from the anisotropic correlation function between redshifts 0.6 and 1. Monthly Notices of the Royal Astronomical Society, 2020, 500, 736-762.	4.4	154
6	The clustering of the SDSS-IV extended Baryon Oscillation Spectroscopic Survey DR14 quasar sample: a tomographic measurement of cosmic structure growth and expansion rate based on optimal redshift weights. Monthly Notices of the Royal Astronomical Society, 2019, 482, 3497-3513.	4.4	142
7	The completed SDSS-IV extended Baryon Oscillation Spectroscopic Survey: BAO and RSD measurements from anisotropic clustering analysis of the quasar sample in configuration space between redshift 0.8 and 2.2. Monthly Notices of the Royal Astronomical Society, 2020, 500, 1201-1221.	4.4	141
8	The Completed SDSS-IV extended Baryon Oscillation Spectroscopic Survey: measurement of the BAO and growth rate of structure of the luminous red galaxy sample from the anisotropic power spectrum between redshifts 0.6 and 1.0. Monthly Notices of the Royal Astronomical Society, 2020, 498, 2492-2531.	4.4	137
9	The completed SDSS-IV extended Baryon Oscillation Spectroscopic Survey: BAO and RSD measurements from the anisotropic power spectrum of the quasar sample between redshift 0.8 and 2.2. Monthly Notices of the Royal Astronomical Society, 2020, 499, 210-229.	4.4	131
10	The clustering of the SDSS-IV extended Baryon Oscillation Spectroscopic Survey DR14 quasar sample: structure growth rate measurement from the anisotropic quasar power spectrum in the redshift range 0.8Â<ÂzÂ<Â2.2. Monthly Notices of the Royal Astronomical Society, 2018, 477, 1604-1638.	4.4	118
11	EZmocks: extending the Zel'dovich approximation to generate mock galaxy catalogues with accurate clustering statistics. Monthly Notices of the Royal Astronomical Society, 2015, 446, 2621-2628.	4.4	117
12	The clustering of the SDSS-IV extended Baryon Oscillation Spectroscopic Survey DR14 quasar sample: measurement of the growth rate of structure from the anisotropic correlation function between redshift 0.8 and 2.2. Monthly Notices of the Royal Astronomical Society, 2018, 477, 1639-1663.	4.4	109
13	The Completed SDSS-IV extended Baryon Oscillation Spectroscopic Survey: Large-scale structure catalogues for cosmological analysis. Monthly Notices of the Royal Astronomical Society, 2020, 498, 2354-2371.	4.4	100
14	The Completed SDSS-IV extended Baryon Oscillation Spectroscopic Survey: measurement of the BAO and growth rate of structure of the emission line galaxy sample from the anisotropic power spectrum between redshift 0.6 and 1.1. Monthly Notices of the Royal Astronomical Society, 0, , .	4.4	91
15	Redshift-weighted constraints on primordial non-Gaussianity from the clustering of the eBOSS DR14 quasars in Fourier space. Journal of Cosmology and Astroparticle Physics, 2019, 2019, 010-010.	5.4	82
16	The completed SDSS-IV extended baryon oscillation spectroscopic survey: growth rate of structure measurement from anisotropic clustering analysis in configuration space between redshift 0.6 and 1.1 for the emission-line galaxy sample. Monthly Notices of the Royal Astronomical Society, 2020, 499, 5527-5546.	4.4	80
17	nIFTy cosmology: Galaxy/halo mock catalogue comparison project on clustering statistics. Monthly Notices of the Royal Astronomical Society, 2015, 452, 686-700.	4.4	71
18	The completed SDSS-IV extended Baryon Oscillation Spectroscopic Survey: large-scale structure catalogues and measurement of the isotropic BAO between redshift 0.6 and 1.1 for the Emission Line Galaxy Sample. Monthly Notices of the Royal Astronomical Society, 2020, 500, 3254-3274.	4.4	62

#	Article	IF	Citations
19	EFT of large scale structures in redshift space. Physical Review D, 2018, 97, .	4.7	59
20	The completed SDSS-IV extended Baryon Oscillation Spectroscopic Survey: 1000 multi-tracer mock catalogues with redshift evolution and systematics for galaxies and quasars of the final data release. Monthly Notices of the Royal Astronomical Society, 2021, 503, 1149-1173.	4.4	58
21	Signatures of the Primordial Universe from Its Emptiness: Measurement of Baryon Acoustic Oscillations from Minima of the Density Field. Physical Review Letters, 2016, 116, 171301.	7.8	56
22	UNIT project: Universe N-body simulations for the Investigation of Theoretical models from galaxy surveys. Monthly Notices of the Royal Astronomical Society, 2019, 487, 48-59.	4.4	54
23	The Completed SDSS-IV extended Baryon Oscillation Spectroscopic Survey: exploring the halo occupation distribution model for emission line galaxies. Monthly Notices of the Royal Astronomical Society, 2020, 499, 5486-5507.	4.4	45
24	The clustering of galaxies in the completed SDSS-III Baryon Oscillation Spectroscopic Survey: a tomographic analysis of structure growth and expansion rate from anisotropic galaxy clustering. Monthly Notices of the Royal Astronomical Society, 2018, 481, 3160-3166.	4.4	40
25	BOSS Correlation Function analysis from the Effective Field Theory of Large-Scale Structure. Journal of Cosmology and Astroparticle Physics, 2022, 2022, 036.	5.4	38
26	Linear redshift space distortions for cosmic voids based on galaxies in redshift space. Physical Review D, 2017, 95, .	4.7	36
27	The impact of the fiducial cosmology assumption on BAO distance scale measurements. Monthly Notices of the Royal Astronomical Society, 2020, 494, 2076-2089.	4.4	35
28	Measuring baryon acoustic oscillations from the clustering of voids. Monthly Notices of the Royal Astronomical Society, 2016, 459, 4020-4028.	4.4	34
29	The clustering of the SDSS-IV extended Baryon Oscillation Spectroscopic Survey DR14 LRG sample: structure growth rate measurement from the anisotropic LRG correlation function in the redshift range 0.6 < z < 1.0. Monthly Notices of the Royal Astronomical Society, 2020, 492, 4189-4215.	4.4	33
30	The clustering of the SDSS-IV extended baryon oscillation spectroscopic survey DR16 luminous red galaxy and emission-line galaxy samples: cosmic distance and structure growth measurements using multiple tracers in configuration space. Monthly Notices of the Royal Astronomical Society, 2020, 498, 3470-3483.	4.4	29
31	The completed SDSS-IV extended baryon oscillation spectroscopic survey: pairwise-inverse probability and angular correction for fibre collisions in clustering measurements. Monthly Notices of the Royal Astronomical Society, 2020, 498, 128-143.	4.4	28
32	Halo mass distribution reconstruction across the cosmic web. Monthly Notices of the Royal Astronomical Society, 2015, 451, 4266-4276.	4.4	27
33	Cosmological implications of the full shape of anisotropic clustering measurements in BOSS and eBOSS. Monthly Notices of the Royal Astronomical Society, 2022, 512, 5657-5670.	4.4	26
34	dive in the cosmic web: voids with Delaunay triangulation from discrete matter tracer distributions. Monthly Notices of the Royal Astronomical Society, 2016, 459, 2670-2680.	4.4	24
35	BAM: bias assignment method to generate mock catalogues. Monthly Notices of the Royal Astronomical Society: Letters, 2019, 483, L58-L63.	3.3	23
36	The clustering of the SDSS-IV extended Baryon Oscillation Spectroscopic Survey DR14 quasar sample: measuring the evolution of the growth rate using redshift-space distortions between redshift 0.8 and 2.2. Monthly Notices of the Royal Astronomical Society, 2019, 483, 3878-3887.	4.4	22

#	Article	IF	Citations
37	The completed SDSS-IV extended Baryon Oscillation Spectroscopic Survey: N-body mock challenge for the eBOSS emission line galaxy sample. Monthly Notices of the Royal Astronomical Society, 2021, 504, 4667-4686.	4.4	22
38	The completed SDSS-IV extended Baryon Oscillation Spectroscopic Survey: cosmological implications from multitracer BAO analysis with galaxies and voids. Monthly Notices of the Royal Astronomical Society, 2022, 511, 5492-5524.	4.4	22
39	The completed SDSS-IV extended Baryon Oscillation Spectroscopic Survey: growth rate of structure measurement from cosmic voids. Monthly Notices of the Royal Astronomical Society, 2022, 513, 186-203.	4.4	21
40	The completed SDSS-IV extended Baryon Oscillation Spectroscopic Survey: a multitracer analysis in Fourier space for measuring the cosmic structure growth and expansion rate. Monthly Notices of the Royal Astronomical Society, 2021, 504, 33-52.	4.4	20
41	The Completed SDSS-IV Extended Baryon Oscillation Spectroscopic Survey: N-body Mock Challenge for Galaxy Clustering Measurements. Monthly Notices of the Royal Astronomical Society, 0, , .	4.4	19
42	Hunting down systematics in baryon acoustic oscillations after cosmic high noon. Monthly Notices of the Royal Astronomical Society, 2016, 458, 613-623.	4.4	17
43	The first release of the AST3-1 Point Source Catalogue from Dome A, Antarctica. Monthly Notices of the Royal Astronomical Society, 2018, 479, 111-120.	4.4	16
44	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
45	Testing general relativity on cosmological scales at redshift z âˆ¼ 1.5 with quasar and CMB lensing. Monthly Notices of the Royal Astronomical Society, 2020, 501, 1013-1027.	4.4	16
46	The clustering of the SDSS-IV extended Baryon Oscillation Spectroscopic Survey DR14 quasar sample: anisotropic Baryon Acoustic Oscillations measurements in Fourier-space with optimal redshift weights. Monthly Notices of the Royal Astronomical Society, 2018, 477, 1528-1535.	4.4	13
47	One simulation to have them all: performance of the Bias Assignment Method against N-body simulations. Monthly Notices of the Royal Astronomical Society, 0, , .	4.4	13
48	Accurate haloâ€“galaxy mocks from automatic bias estimation and particle mesh gravity solvers. Monthly Notices of the Royal Astronomical Society, 2017, 472, 4144-4154.	4.4	12
49	Removing imaging systematics from galaxy clustering measurements with <tt>Obiwan</tt>: application to the SDSS-IV extended Baryon Oscillation Spectroscopic Survey emission-line galaxy sample. Monthly Notices of the Royal Astronomical Society, 2020, 499, 3943-3960.	4.4	12
50	The bias of dark matter tracers: assessing the accuracy of mapping techniques. Monthly Notices of the Royal Astronomical Society, 2020, 493, 586-593.	4.4	12
51	Improving baryon acoustic oscillation measurement with the combination of cosmic voids and galaxies. Monthly Notices of the Royal Astronomical Society, 2020, 491, 4554-4572.	4.4	11
52	The DESI N-body Simulation Project â€“ II. Suppressing sample variance with fast simulations. Monthly Notices of the Royal Astronomical Society, 2022, 514, 3308-3328.	4.4	10
53	Baryon acoustic oscillations in the projected cross-correlation function between the eBOSS DR16 quasars and photometric galaxies from the DESI Legacy Imaging Surveys. Monthly Notices of the Royal Astronomical Society, 2021, 503, 2562-2582.	4.4	9
54	Reducing the variance of redshift space distortion measurements from mock galaxy catalogues with different lines of sight. Monthly Notices of the Royal Astronomical Society, 2020, 500, 259-271.	4.4	9

#	Article	IF	Citations
55	The clustering of the SDSS-IV extended Baryon Oscillation Spectroscopic Survey quasar sample: testing observational systematics on the Baryon Acoustic Oscillation measurement. Monthly Notices of the Royal Astronomical Society, 2021, 506, 2503-2517.	4.4	6
56	Problems with twilight/supersky flat-field for wide-field robotic telescopes and the solution. Proceedings of SPIE, 2014, , .	0.8	5
57	The Effect of Massive Neutrinos on the Position of Cold Dark Matter Halo: Revealed via the Delaunay Triangulation Void. Astrophysical Journal, 2018, 862, 60.	4.5	4
58	Cosmic void baryon acoustic oscillation measurement: Evaluation of sensitivity to selection effects. Monthly Notices of the Royal Astronomical Society, 0, , .	4.4	2
59	A machine learning approach to correct for mass resolution effects in simulated halo clustering statistics. Monthly Notices of the Royal Astronomical Society, 2022, 513, 4318-4331.	4.4	2
60	Angular systematics-free cosmological analysis of galaxy clustering in configuration space. Monthly Notices of the Royal Astronomical Society, 2022, 512, 1341-1356.	4.4	0