

Chun-Hao To

List of Publications by Year in descending order

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Version: 2024-02-01

66
papers

2,272
citations

236925

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h-index

233421

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all docs

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docs citations

66
times ranked

1858
citing authors

#	ARTICLE	IF	CITATIONS
1	Dark Energy Survey Year 3 results: Cosmological constraints from galaxy clustering and weak lensing. <i>Physical Review D</i> , 2022, 105, .	4.7	398
2	Dark Energy Survey Year 1 Results: Cosmological constraints from cluster abundances and weak lensing. <i>Physical Review D</i> , 2020, 102, .	4.7	140
3	The Dark Energy Survey Data Release 2. <i>Astrophysical Journal, Supplement Series</i> , 2021, 255, 20.	7.7	120
4	The Atacama Cosmology Telescope: A Catalog of >4000 Sunyaev-Zeldovich Galaxy Clusters. <i>Astrophysical Journal, Supplement Series</i> , 2021, 253, 3.	7.7	118
5	Dark Energy Survey Year 3 Results: Photometric Data Set for Cosmology. <i>Astrophysical Journal, Supplement Series</i> , 2021, 254, 24.	7.7	93
6	Dark energy survey year 3 results: weak lensing shape catalogue. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 504, 4312-4336.	4.4	77
7	CosmoDC2: A Synthetic Sky Catalog for Dark Energy Science with LSST. <i>Astrophysical Journal, Supplement Series</i> , 2019, 245, 26.	7.7	67
8	Dark Energy Survey Year 3 results: redshift calibration of the weak lensing source galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 505, 4249-4277.	4.4	67
9	Dark Energy Survey Year 1 Results: Detection of Intracluster Light at Redshift ~ 0.25 . <i>Astrophysical Journal</i> , 2019, 874, 165.	4.5	65
10	Dark Energy Survey Year 1 Results: Cosmological Constraints from Cluster Abundances, Weak Lensing, and Galaxy Correlations. <i>Physical Review Letters</i> , 2021, 126, 141301.	7.8	55
11	UNIT project: Universe N-body simulations for the Investigation of Theoretical models from galaxy surveys. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 487, 48-59.	4.4	54
12	Dark Energy Survey Y3 results: blending shear and redshift biases in image simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 509, 3371-3394.	4.4	53
13	Dark Energy Survey Year 3 results: Curved-sky weak lensing mass map reconstruction. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 505, 4626-4645.	4.4	42
14	The effect of environment on Type Ia supernovae in the Dark Energy Survey three-year cosmological sample. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 501, 4861-4876.	4.4	42
15	Dark Energy Survey year 3 results: covariance modelling and its impact on parameter estimation and quality of fit. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 508, 3125-3165.	4.4	39
16	Assessing tension metrics with dark energy survey and Planck data. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 505, 6179-6194.	4.4	37
17	Dark Energy Survey Year 3 Results: clustering redshifts calibration of the weak lensing source redshift distributions with <i>redMaGiC</i> and BOSS/eBOSS. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 510, 1223-1247.	4.4	36
18	Dark Energy Survey Year 3 Results: Deep Field optical+near-infrared images and catalogue. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 509, 3547-3579.	4.4	35

#	ARTICLE	IF	CITATIONS
19	Cosmological constraints from DES Y1 cluster abundances and SPT multiwavelength data. <i>Physical Review D</i> , 2021, 103, .	4.7	34
20	Dark energy survey year 3 results: Cosmology with peaks using an emulator approach. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 511, 2075-2104.	4.4	34
21	Pushing automated morphological classifications to their limits with the Dark Energy Survey. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 506, 1927-1943.	4.4	33
22	Galaxy morphological classification catalogue of the Dark Energy Survey Year 3 data with convolutional neural networks. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 507, 4425-4444.	4.4	32
23	Dark Energy Survey Year 3 results: galaxy clustering and systematics treatment for lens galaxy samples. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 511, 2665-2687.	4.4	31
24	No Evidence for Orbital Clustering in the Extreme Trans-Neptunian Objects. <i>Planetary Science Journal</i> , 2021, 2, 59.	3.6	29
25	A Search of the Full Six Years of the Dark Energy Survey for Outer Solar System Objects. <i>Astrophysical Journal, Supplement Series</i> , 2022, 258, 41.	7.7	27
26	OzDES Reverberation Mapping Programme: the first Mg λ 7890 Å emission line lags from 5 yr of monitoring. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 507, 3771-3788.	4.4	24
27	Rates and delay times of type Ia supernovae in the Dark Energy Survey. <i>Monthly Notices of the Royal Astronomical Society</i> , 0, , .	4.4	21
28	C/2014 UN ₂₇₁ (Bernardinelli-Bernstein): The Nearly Spherical Cow of Comets. <i>Astrophysical Journal Letters</i> , 2021, 921, L37.	8.3	21
29	Dark Energy Survey Year 3 Results: Measuring the Survey Transfer Function with Balrog. <i>Astrophysical Journal, Supplement Series</i> , 2022, 258, 15.	7.7	21
30	Cross-correlation of Dark Energy Survey Year 3 lensing data with ACT and μ 87 thermal Sunyaev-Zeldovich effect observations. II. Modeling and constraints on halo pressure profiles. <i>Physical Review D</i> , 2022, 105, .	4.7	21
31	Dark energy survey internal consistency tests of the joint cosmological probes analysis with posterior predictive distributions. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 503, 2688-2705.	4.4	20
32	The mass and galaxy distribution around SZ-selected clusters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 507, 5758-5779.	4.4	20
33	Probing Galaxy Evolution in Massive Clusters Using ACT and DES: Splashback as a Cosmic Clock. <i>Astrophysical Journal</i> , 2021, 923, 37.	4.5	20
34	A machine learning approach to galaxy properties: joint redshift stellar mass probability distributions with Random Forest. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 502, 2770-2786.	4.4	19
35	Identifying RR Lyrae Variable Stars in Six Years of the Dark Energy Survey. <i>Astrophysical Journal</i> , 2021, 911, 109.	4.5	18
36	Dark Energy Survey Year 3 results: galaxy halo connection from galaxy lensing. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 509, 3119-3147.	4.4	18

#	ARTICLE	IF	CITATIONS
37	Dark Energy Survey Year 3 results: marginalization over redshift distribution uncertainties using ranking of discrete realizations. Monthly Notices of the Royal Astronomical Society, 2022, 511, 2170-2185.	4.4	18
38	The Dark Energy Survey supernova programme: modelling selection efficiency and observed core-collapse supernova contamination. Monthly Notices of the Royal Astronomical Society, 2021, 505, 2819-2839.	4.4	17
39	DES Y1 results: Splitting growth and geometry to test Λ CDM. Physical Review D, 2021, 103, .	4.7	16
40	Milky Way Satellite Census. IV. Constraints on Decaying Dark Matter from Observations of Milky Way Satellite Galaxies. Astrophysical Journal, 2022, 932, 128.	4.5	16
41	RedMaPPer: Evolution and Mass Dependence of the Conditional Luminosity Functions of Red Galaxies in Galaxy Clusters. Astrophysical Journal, 2020, 897, 15.	4.5	15
42	The WaZP galaxy cluster sample of the dark energy survey year 1. Monthly Notices of the Royal Astronomical Society, 2021, 502, 4435-4456.	4.4	15
43	Combination of cluster number counts and two-point correlations: validation on mock Dark Energy Survey. Monthly Notices of the Royal Astronomical Society, 2021, 502, 4093-4111.	4.4	14
44	Consistency of cosmic shear analyses in harmonic and real space. Monthly Notices of the Royal Astronomical Society, 2021, 503, 3796-3817.	4.4	14
45	STAR FORMATION RATE AND EXTINCTION IN FAINT $z \sim 4$ LYMAN BREAK GALAXIES. Astrophysical Journal, 2014, 792, 139.	4.5	13
46	Exploring the contamination of the DES-Y1 cluster sample with SPT-SZ selected clusters. Monthly Notices of the Royal Astronomical Society, 2021, 504, 1253-1272.	4.4	12
47	Spectroscopic quantification of projection effects in the SDSS redMaPPer galaxy cluster catalogue. Monthly Notices of the Royal Astronomical Society, 2021, 505, 33-44.	4.4	12
48	Lensing without borders I. A blind comparison of the amplitude of galaxy-galaxy lensing between independent imaging surveys. Monthly Notices of the Royal Astronomical Society, 2022, 510, 6150-6189.	4.4	12
49	OzDES reverberation mapping program: Lag recovery reliability for 6-yr ν analysis. Monthly Notices of the Royal Astronomical Society, 2021, 509, 4008-4023.	4.4	11
50	Probing gravity with the DES-CMASS sample and BOSS spectroscopy. Monthly Notices of the Royal Astronomical Society, 2021, 509, 4982-4996.	4.4	9
51	Finding quadruply imaged quasars with machine learning I. Methods. Monthly Notices of the Royal Astronomical Society, 2022, 513, 2407-2421.	4.4	9
52	SOAR/Goodman Spectroscopic Assessment of Candidate Counterparts of the LIGO/Virgo Event GW190814*. Astrophysical Journal, 2022, 929, 115.	4.5	9
53	Reducing Ground-based Astrometric Errors with Gaia and Gaussian Processes. Astronomical Journal, 2021, 162, 106.	4.7	8
54	Dark Energy Survey Year 3 results: galaxy sample for BAO measurement. Monthly Notices of the Royal Astronomical Society, 2021, 509, 778-799.	4.4	8

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55	From the Fire: A Deeper Look at the Phoenix Stream. <i>Astrophysical Journal</i> , 2022, 925, 118.	4.5	8
56	The dark energy survey 5-yr photometrically identified type Ia supernovae. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 514, 5159-5177.	4.4	8
57	The Evolution of AGN Activity in Brightest Cluster Galaxies. <i>Astronomical Journal</i> , 2022, 163, 146.	4.7	7
58	The Dark Energy Survey supernova program: cosmological biases from supernova photometric classification. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 518, 1106-1127.	4.4	7
59	Galaxy galaxy lensing with the DES-CMASS catalogue: measurement and constraints on the galaxy-matter cross-correlation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 509, 2033-2047.	4.4	6
60	Superclustering with the Atacama Cosmology Telescope and Dark Energy Survey. I. Evidence for Thermal Energy Anisotropy Using Oriented Stacking. <i>Astrophysical Journal</i> , 2022, 933, 134.	4.5	6
61	Galaxy clustering in harmonic space from the dark energy survey year 1 data: compatibility with real-space results. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 505, 5714-5724.	4.4	5
62	DeepZipper: A Novel Deep-learning Architecture for Lensed Supernovae Identification. <i>Astrophysical Journal</i> , 2022, 927, 109.	4.5	5
63	Understanding the extreme luminosity of DES14X2fna. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 505, 3950-3967.	4.4	4
64	The Dark Energy Survey Bright Arcs Survey: Candidate Strongly Lensed Galaxy Systems from the Dark Energy Survey 5000 Square Degree Footprint. <i>Astrophysical Journal</i> , Supplement Series, 2022, 259, 27.	7.7	4
65	Multiwavelength optical and NIR variability analysis of the Blazar PKS0027-426. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 510, 3145-3177.	4.4	2
66	Synthetic galaxy clusters and observations based on Dark Energy Survey Year 3 Data. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 509, 4865-4885.	4.4	1