Ian Harrison

List of Publications by Year
in descending order

51 papers	2,561 citations	279487 23 h-index	197535 49 g-index
51 all docs	51 docs citations	51 times ranked	1706 citing authors

#	Article	IF	Citations
1	Dark Energy Survey Year 3 Results: Measuring the Survey Transfer Function with Balrog. Astrophysical Journal, Supplement Series, 2022, 258, 15.	3.0	21
2	Dark Energy Survey Year 3 results: Cosmology from cosmic shear and robustness to data calibration. Physical Review D, 2022, 105, .	1.6	151
3	Dark Energy Survey Year 3 results: Cosmological constraints from galaxy clustering and weak lensing. Physical Review D, 2022, 105, .	1.6	398
4	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.	1.6	18
5	Dark energy survey year 3 results: Cosmology with peaks using an emulator approach. Monthly Notices of the Royal Astronomical Society, 2022, 511, 2075-2104.	1.6	34
6	Dark Energy Survey Year 3 results: Cosmology from cosmic shear and robustness to modeling uncertainty. Physical Review D, 2022, 105, .	1.6	145
7	Cosmology intertwined: A review of the particle physics, astrophysics, and cosmology associated with the cosmological tensions and anomalies. Journal of High Energy Astrophysics, 2022, 34, 49-211.	2.4	350
8	Dark Energy Survey Year 3 results: Exploiting small-scale information with lensing shear ratios. Physical Review D, 2022, 105, .	1.6	23
9	Dark energy survey year 3 results: High-precision measurement and modeling of galaxy-galaxy lensing. Physical Review D, 2022, 105, .	1.6	22
10	Dark Energy Survey Year 3 Results: Three-point shear correlations and mass aperture moments. Physical Review D, 2022, 105, .	1.6	12
11	Cross-correlation of Dark Energy Survey Year 3 lensing data with ACT and Planck thermal Sunyaev-Zelâ€™dovich effect observations. I. Measurements, systematics tests, and feedback model constraints. Physical Review D, 2022, 105, .	1.6	16
12	Cross-correlation of Dark Energy Survey Year 3 lensing data with ACT and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>P</mml:mi><mml:mi>l</mml:mi><mml:mi>a</mml:mi><mml:mi>n</mml:mi><mml:mi>c</mml:mi><mml:mi> thermal Sunyaev-Zelâ€™dovich effect observations. II. Modeling and constraints on halo pressure profiles. Physical Review D, 2022, 105, .	1.6	21
13	Dark Energy Survey Year 3 results: Cosmology from combined galaxy clustering and lensing validation on cosmological simulations. Physical Review D, 2022, 105, .	1.6	19
14	Dark energy survey year 3 results: cosmological constraints from the analysis of cosmic shear in harmonic space. Monthly Notices of the Royal Astronomical Society, 2022, 515, 1942-1972.	1.6	27
15	A machine learning approach to galaxy properties: joint redshiftâ€“stellar mass probability distributions with Random Forest. Monthly Notices of the Royal Astronomical Society, 2021, 502, 2770-2786.	1.6	19
16	Dark energy survey year 3 results: weak lensing shape catalogue. Monthly Notices of the Royal Astronomical Society, 2021, 504, 4312-4336.	1.6	77
17	Dark Energy Survey Year 3 results: Curved-sky weak lensing mass map reconstruction. Monthly Notices of the Royal Astronomical Society, 2021, 505, 4626-4645.	1.6	42
18	Dark Energy Survey Year 3 Results: Photometric Data Set for Cosmology. Astrophysical Journal, Supplement Series, 2021, 254, 24.	3.0	93

#	Article	IF	Citations
19	Dark Energy Survey Year 3 results: redshift calibration of the weak lensing source galaxies. Monthly Notices of the Royal Astronomical Society, 2021, 505, 4249-4277.	1.6	67
20	Assessing tension metrics with dark energy survey and Planck data. Monthly Notices of the Royal Astronomical Society, 2021, 505, 6179-6194.	1.6	37
21	Dark Energy Survey year 3 results: covariance modelling and its impact on parameter estimation and quality of fit. Monthly Notices of the Royal Astronomical Society, 2021, 508, 3125-3165.	1.6	39
22	SkyPy: A package for modelling the Universe. Journal of Open Source Software, 2021, 6, 3056.	2.0	4
23	The mass and galaxy distribution around SZ-selected clusters. Monthly Notices of the Royal Astronomical Society, 2021, 507, 5758-5779.	1.6	20
24	Dark Energy Survey Y3 results: blending shear and redshift biases in image simulations. Monthly Notices of the Royal Astronomical Society, 2021, 509, 3371-3394.	1.6	53
25	Synthetic galaxy clusters and observations based on Dark Energy Survey Year 3 Data. Monthly Notices of the Royal Astronomical Society, 2021, 509, 4865-4885.	1.6	1
26	Dark Energy Survey Year 3 Results: clustering redshifts â€“ calibration of the weak lensing source redshift distributions with redMaGiC and BOSS/eBOSS. Monthly Notices of the Royal Astronomical Society, 2021, 510, 1223-1247.	1.6	36
27	Dark Energy Survey Year 3 results: galaxyâ€“halo connection from galaxyâ€“galaxy lensing. Monthly Notices of the Royal Astronomical Society, 2021, 509, 3119-3147.	1.6	18
28	The DES view of the Eridanus supervoid and the CMB cold spot. Monthly Notices of the Royal Astronomical Society, 2021, 510, 216-229.	1.6	14
29	Dark Energy Survey Year 3 results: cosmology with moments of weak lensing mass maps â€“ validation on simulations. Monthly Notices of the Royal Astronomical Society, 2020, 498, 4060-4087.	1.6	29
30	SuperCLASS â€“ II. Photometric redshifts and characteristics of spatially resolved Î¼Jy radio sources. Monthly Notices of the Royal Astronomical Society, 2020, 495, 1724-1736.	1.6	2
31	SuperCLASS â€“ III. Weak lensing from radio and optical observations in Data Release 1. Monthly Notices of the Royal Astronomical Society, 2020, 495, 1737-1759.	1.6	8
32	SuperCLASS â€“ I. The super cluster assisted shear survey: Project overview and data release 1. Monthly Notices of the Royal Astronomical Society, 2020, 495, 1706-1723.	1.6	3
33	Cosmology with Phase 1 of the Square Kilometre Array Red Book 2018: Technical specifications and performance forecasts. Publications of the Astronomical Society of Australia, 2020, 37, .	1.3	195
34	Fundamental physics with the Square Kilometre Array. Publications of the Astronomical Society of Australia, 2020, 37, .	1.3	179
35	Dark Energy Survey year 3 results: point spread function modelling. Monthly Notices of the Royal Astronomical Society, 2020, 501, 1282-1299.	1.6	41
36	Source Distributions of Cosmic Shear Surveys in Efficiency Space. The Open Journal of Astrophysics, 2020, 3, .	0.8	8

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37	Radioâ€“optical galaxy shape and shear correlations in the COSMOS field using 3ÂGHz VLA observations. Monthly Notices of the Royal Astronomical Society, 2019, 488, 5420-5436.	1.6	4
38	Radio galaxy shape measurement with Hamiltonian Monte Carlo in the visibility domain. Monthly Notices of the Royal Astronomical Society, 2019, 482, 1096-1109.	1.6	7
39	The Tiered Radio Extragalactic Continuum Simulation (T-RECS). Monthly Notices of the Royal Astronomical Society, 2019, 482, 2-19.	1.6	78
40	Hâ€‰<scp>i</scp>intensity mapping for clustering-based redshift estimation. Monthly Notices of the Royal Astronomical Society, 2019, 482, 3341-3355.	1.6	14
41	AMI-LA observations of the SuperCLASS supercluster. Monthly Notices of the Royal Astronomical Society, 2018, 474, 5598-5613.	1.6	2
42	SKA weak lensing â€“ III. Added value of multiwavelength synergies for the mitigation of systematics. Monthly Notices of the Royal Astronomical Society, 2017, 464, 4747-4760.	1.6	27
43	SKA weak lensingâ€“ II. Simulated performance and survey design considerations. Monthly Notices of the Royal Astronomical Society, 2016, 463, 3686-3698.	1.6	27
44	SKA weak lensing â€“ I. Cosmological forecasts and the power of radio-optical cross-correlations. Monthly Notices of the Royal Astronomical Society, 2016, 463, 3674-3685.	1.6	43
45	Radioâ€“optical galaxy shape correlations in the COSMOS field. Monthly Notices of the Royal Astronomical Society, 2016, 463, 3339-3353.	1.6	11
46	Deep observations of the Super-CLASS supercluster at 325ÂMHz with the GMRT: the low-frequency source catalogue. Monthly Notices of the Royal Astronomical Society, 2016, 462, 917-940.	1.6	9
47	Weak gravitational lensing with the Square Kilometre Array. , 2015, , .		8
48	Weak Lensing Simulations for the SKA. , 2015, , .		3
49	A consistent approach to falsifying Î›CDM with rare galaxy clusters. Journal of Cosmology and Astroparticle Physics, 2013, 2013, 022-022.	1.9	22
50	Testing cosmology with extreme galaxy clusters. Monthly Notices of the Royal Astronomical Society: Letters, 2012, 421, L19-L23.	1.2	43
51	Exact extreme value statistics and the halo mass function. Monthly Notices of the Royal Astronomical Society: Letters, 2011, 418, L20-L24.	1.2	21