Ian Harrison

List of Publications by Year
in descending order

51 papers	2,561 citations	279798 23 h-index	197818 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: Cosmological constraints from galaxy clustering and weak lensing. Physical Review D, 2022, 105, .	4.7	398
2	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.	6.7	350
3	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, .	3.4	195
4	Fundamental physics with the Square Kilometre Array. Publications of the Astronomical Society of Australia, 2020, 37, .	3.4	179
5	Dark Energy Survey Year 3 results: Cosmology from cosmic shear and robustness to data calibration. Physical Review D, 2022, 105, .	4.7	151
6	Dark Energy Survey Year 3 results: Cosmology from cosmic shear and robustness to modeling uncertainty. Physical Review D, 2022, 105, .	4.7	145
7	Dark Energy Survey Year 3 Results: Photometric Data Set for Cosmology. Astrophysical Journal, Supplement Series, 2021, 254, 24.	7.7	93
8	The Tiered Radio Extragalactic Continuum Simulation (T-RECS). Monthly Notices of the Royal Astronomical Society, 2019, 482, 2-19.	4.4	78
9	Dark energy survey year 3 results: weak lensing shape catalogue. Monthly Notices of the Royal Astronomical Society, 2021, 504, 4312-4336.	4.4	77
10	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.	4.4	67
11	Dark Energy Survey Y3 results: blending shear and redshift biases in image simulations. Monthly Notices of the Royal Astronomical Society, 2021, 509, 3371-3394.	4.4	53
12	Testing cosmology with extreme galaxy clusters. Monthly Notices of the Royal Astronomical Society: Letters, 2012, 421, L19-L23.	3.3	43
13	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.	4.4	43
14	Dark Energy Survey Year 3 results: Curved-sky weak lensing mass map reconstruction. Monthly Notices of the Royal Astronomical Society, 2021, 505, 4626-4645.	4.4	42
15	Dark Energy Survey year 3 results: point spread function modelling. Monthly Notices of the Royal Astronomical Society, 2020, 501, 1282-1299.	4.4	41
16	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.	4.4	39
17	Assessing tension metrics with dark energy survey and Planck data. Monthly Notices of the Royal Astronomical Society, 2021, 505, 6179-6194.	4.4	37
18	Dark Energy Survey Year 3 Results: clustering redshifts â€" calibration of the weak lensing source redshift distributions with <i>redMaGiC</i> and BOSS/eBOSS. Monthly Notices of the Royal Astronomical Society, 2021, 510, 1223-1247.	4.4	36

#	Article	IF	Citations
19	Dark energy survey year 3 results: Cosmology with peaks using an emulator approach. Monthly Notices of the Royal Astronomical Society, 2022, 511, 2075-2104.	4.4	34
20	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.	4.4	29
21	SKA weak lensingâ€" II. Simulated performance and survey design considerations. Monthly Notices of the Royal Astronomical Society, 2016, 463, 3686-3698.	4.4	27
22	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.	4.4	27
23	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.	4.4	27
24	Dark Energy Survey Year 3 results: Exploiting small-scale information with lensing shear ratios. Physical Review D, 2022, 105, .	4.7	23
25	A consistent approach to falsifying ΛCDM with rare galaxy clusters. Journal of Cosmology and Astroparticle Physics, 2013, 2013, 022-022.	5.4	22
26	Dark energy survey year 3 results: High-precision measurement and modeling of galaxy-galaxy lensing. Physical Review D, 2022, 105, .	4.7	22
27	Exact extreme value statistics and the halo mass function. Monthly Notices of the Royal Astronomical Society: Letters, 2011, 418, L20-L24.	3.3	21
28	Dark Energy Survey Year 3 Results: Measuring the Survey Transfer Function with Balrog. Astrophysical Journal, Supplement Series, 2022, 258, 15.	7.7	21
29	Cross-correlation of Dark Energy Survey Year 3 lensing data with ACT and $P\,l\,a\,n\,c\,k$ thermal Sunyaev-Zelâ€™dovich effect observations. II. Modeling and constraints on halo pressure profiles. Physical Review D, 2022, 105, .	4.7	21
30	The mass and galaxy distribution around SZ-selected clusters. Monthly Notices of the Royal Astronomical Society, 2021, 507, 5758-5779.	4.4	20
31	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.	4.4	19
32	Dark Energy Survey Year 3 results: Cosmology from combined galaxy clustering and lensing validation on cosmological simulations. Physical Review D, 2022, 105, .	4.7	19
33	Dark Energy Survey Year 3 results: galaxyâ€"halo connection from galaxyâ€"galaxy lensing. Monthly Notices of the Royal Astronomical Society, 2021, 509, 3119-3147.	4.4	18
34	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
35	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, .	4.7	16
36	Hɪ intensity mapping for clustering-based redshift estimation. Monthly Notices of the Royal Astronomical Society, 2019, 482, 3341-3355.	4.4	14

#	Article	IF	Citations
37	The DES view of the Eridanus supervoid and the CMB cold spot. Monthly Notices of the Royal Astronomical Society, 2021, 510, 216-229.	4.4	14
38	Dark Energy Survey Year 3 Results: Three-point shear correlations and mass aperture moments. Physical Review D, 2022, 105, .	4.7	12
39	Radio–optical galaxy shape correlations in the COSMOS field. Monthly Notices of the Royal Astronomical Society, 2016, 463, 3339-3353.	4.4	11
40	Deep observations of the Super-CLASS supercluster at 325 MHz with the GMRT: the low-frequency source catalogue. Monthly Notices of the Royal Astronomical Society, 2016, 462, 917-940.	4.4	9
41	SuperCLASS – III. Weak lensing from radio and optical observations in Data Release 1. Monthly Notices of the Royal Astronomical Society, 2020, 495, 1737-1759.	4.4	8
42	Source Distributions of Cosmic Shear Surveys in Efficiency Space. The Open Journal of Astrophysics, 2020, 3, .	2.8	8
43	Weak gravitational lensing with the Square Kilometre Array. , 2015, , .		8
44	Radio galaxy shape measurement with Hamiltonian Monte Carlo in the visibility domain. Monthly Notices of the Royal Astronomical Society, 2019, 482, 1096-1109.	4.4	7
45	Radio–optical galaxy shape and shear correlations in the COSMOS field using 3 GHz VLA observations. Monthly Notices of the Royal Astronomical Society, 2019, 488, 5420-5436.	4.4	4
46	SkyPy: A package for modelling the Universe. Journal of Open Source Software, 2021, 6, 3056.	4.6	4
47	SuperCLASS – I. The super cluster assisted shear survey: Project overview and data release 1. Monthly Notices of the Royal Astronomical Society, 2020, 495, 1706-1723.	4.4	3
48	Weak Lensing Simulations for the SKA. , 2015, , .		3
49	AMI-LA observations of the SuperCLASS supercluster. Monthly Notices of the Royal Astronomical Society, 2018, 474, 5598-5613.	4.4	2
50	SuperCLASS – II. Photometric redshifts and characteristics of spatially resolved μJy radio sources. Monthly Notices of the Royal Astronomical Society, 2020, 495, 1724-1736.	4.4	2
51	Synthetic galaxy clusters and observations based on Dark Energy Survey Year 3 Data. Monthly Notices of the Royal Astronomical Society, 2021, 509, 4865-4885.	4.4	1