David Burke

List of Publications by Year in Descending Order

119 papers	4,271 citations	34 h-index	61 g-index
130 ext. papers	5,654 ext. citations	5 avg, IF	3.64 L-index

#	Paper	IF	Citations
119	From the Fire: A Deeper Look at the Phoenix Stream. *Astrophysical Journal*, **2022**, 925, 118	4.7	0
118	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	4.3	2
117	A Search of the Full Six Years of the Dark Energy Survey for Outer Solar System Objects. *Astrophysical Journal, Supplement Series*, **2022**, 258, 41	8	6
116	The Dark Energy Survey Bright Arcs Survey: Candidate Strongly Lensed Galaxy Systems from the Dark Energy Survey 5000 Square Degree Footprint. *Astrophysical Journal, Supplement Series*, **2022**, 259, 27	8	0
115	The Evolution of AGN Activity in Brightest Cluster Galaxies. *Astronomical Journal*, **2022**, 163, 146	4.9	0
114	Lensing without borders 𝐈. A blind comparison of the amplitude of galaxy𝐠alaxy lensing between independent imaging surveys. *Monthly Notices of the Royal Astronomical Society*, **2022**, 510, 6150-6189	4.3	2
113	Dark Energy Survey Year 3 results: galaxy𝐡alo connection from galaxy𝐠alaxy lensing. *Monthly Notices of the Royal Astronomical Society*, **2021**, 509, 3119-3147	4.3	1
112	Machine Learning for Searching the Dark Energy Survey for Trans-Neptunian Objects. *Publications of the Astronomical Society of the Pacific*, **2021**, 133, 014501	5	3
111	The effect of environment on Type Ia supernovae in the Dark Energy Survey three-year cosmological sample. *Monthly Notices of the Royal Astronomical Society*, **2021**, 501, 4861-4876	4.3	13
110	Consistency of cosmic shear analyses in harmonic and real space. *Monthly Notices of the Royal Astronomical Society*, **2021**, 503, 3796-3817	4.3	5
109	Constraints on Dark Matter Properties from Observations of Milky𝐖ay Satellite Galaxies. *Physical Review Letters*, **2021**, 126, 091101	7.4	49
108	No Evidence for Orbital Clustering in the Extreme Trans-Neptunian Objects. *Planetary Science Journal*, **2021**, 2, 59	2.9	9
107	Identifying RR Lyrae Variable Stars in Six Years of the Dark Energy Survey. *Astrophysical Journal*, **2021**, 911, 109	4.7	7
106	Dark energy survey year 3 results: weak lensing shape catalogue. *Monthly Notices of the Royal Astronomical Society*, **2021**, 504, 4312-4336	4.3	17
105	Dark Energy Survey Year 1 Results: Cosmological Constraints from Cluster Abundances, Weak Lensing, and Galaxy Correlations. *Physical Review Letters*, **2021**, 126, 141301	7.4	22
104	The first Hubble diagram and cosmological constraints using superluminous supernovae. *Monthly Notices of the Royal Astronomical Society*, **2021**, 504, 2535-2549	4.3	8
103	Dark Energy Survey Year 3 results: Curved-sky weak lensing mass map reconstruction. *Monthly Notices of the Royal Astronomical Society*, **2021**, 505, 4626-4645	4.3	9

102	Dark Energy Survey Year 3 Results: Photometric Data Set for Cosmology. *Astrophysical Journal, Supplement Series*, **2021**, 254, 24	8	24
101	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	4.3	3
100	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	4.3	18
99	Galaxy clustering in harmonic space from the dark energy survey year 1 data: compatibility with real-space results. *Monthly Notices of the Royal Astronomical Society*, **2021**, 505, 5714-5724	4.3	1
98	Assessing tension metrics with dark energy survey and Planck data. *Monthly Notices of the Royal Astronomical Society*, **2021**, 505, 6179-6194	4.3	10
97	The Dark Energy Survey Data Release 2. *Astrophysical Journal, Supplement Series*, **2021**, 255, 20	8	22
96	Dark energy survey internal consistency tests of the joint cosmological probes analysis with posterior predictive distributions. *Monthly Notices of the Royal Astronomical Society*, **2021**, 503, 2688-2705	4.3	9
95	Dark energy survey year 1 results: Constraining baryonic physics in the Universe. *Monthly Notices of the Royal Astronomical Society*, **2021**, 502, 6010-6031	4.3	11
94	The Atacama Cosmology Telescope: A Catalog of >4000 Sunyaev\]eldovich Galaxy Clusters. *Astrophysical Journal, Supplement Series*, **2021**, 253, 3	8	44
93	OzDES Reverberation Mapping Programme: the first Mg ii lags from 5 yr of monitoring. *Monthly Notices of the Royal Astronomical Society*, **2021**, 507, 3771-3788	4.3	6
92	The mass and galaxy distribution around SZ-selected clusters. *Monthly Notices of the Royal Astronomical Society*, **2021**, 507, 5758-5779	4.3	2
91	Validation of selection function, sample contamination and mass calibration in galaxy cluster samples. *Monthly Notices of the Royal Astronomical Society*, **2020**, 498, 771-798	4.3	7
90	The host galaxies of 106 rapidly evolving transients discovered by the Dark Energy Survey. *Monthly Notices of the Royal Astronomical Society*, **2020**, 498, 2575-2593	4.3	7
89	STRIDES: a 3.9 per cent measurement of the Hubble constant from the strong lens system DES J0408\]354. *Monthly Notices of the Royal Astronomical Society*, **2020**, 494, 6072-6102	4.3	83
88	Birds of a Feather? Magellan/IMACS Spectroscopy of the Ultra-faint Satellites Grus II, Tucana IV, and Tucana V. *Astrophysical Journal*, **2020**, 892, 137	4.7	23
87	A joint SZ\]X-ray\]optical analysis of the dynamical state of 288 massive galaxy clusters. *Monthly Notices of the Royal Astronomical Society*, **2020**, 495, 705-725	4.3	10
86	Studying Type II supernovae as cosmological standard candles using the Dark Energy Survey. *Monthly Notices of the Royal Astronomical Society*, **2020**, 495, 4860-4892	4.3	6
85	DES16C3cje: A low-luminosity, long-lived supernova. *Monthly Notices of the Royal Astronomical Society*, **2020**, 496, 95-110	4.3	5

84	Detection of Cross-Correlation between Gravitational Lensing and ☐Rays. *Physical Review Letters*, **2020**, 124, 101102	7.4	10
83	Trans-Neptunian Objects Found in the First Four Years of the Dark Energy Survey. *Astrophysical Journal, Supplement Series*, **2020**, 247, 32	8	16
82	Weak lensing of Type Ia Supernovae from the Dark Energy Survey. *Monthly Notices of the Royal Astronomical Society*, **2020**, 496, 4051-4059	4.3	2
81	Milky Way Satellite Census. I. The Observational Selection Function for Milky Way Satellites in DES Y3 and Pan-STARRS DR1. *Astrophysical Journal*, **2020**, 893, 47	4.7	52
80	Dynamical Classification of Trans-Neptunian Objects Detected by the Dark Energy Survey. *Astronomical Journal*, **2020**, 159, 133	4.9	13
79	Chemical Analysis of the Ultrafaint Dwarf Galaxy Grus II. Signature of High-mass Stellar Nucleosynthesis. *Astrophysical Journal*, **2020**, 897, 183	4.7	8
78	Dust Reverberation Mapping in Distant Quasars from Optical and Mid-infrared Imaging Surveys. *Astrophysical Journal*, **2020**, 900, 58	4.7	8
77	The SPTpol Extended Cluster Survey. *Astrophysical Journal, Supplement Series*, **2020**, 247, 25	8	56
76	Dark Energy Survey Year 1 results: the lensing imprint of cosmic voids on the cosmic microwave background. *Monthly Notices of the Royal Astronomical Society*, **2020**, 500, 464-480	4.3	7
75	Is diffuse intracluster light a good tracer of the galaxy cluster matter distribution?. *Monthly Notices of the Royal Astronomical Society*, **2020**, 501, 1300-1315	4.3	10
74	Modelling the Milky Way ☐I. Method and first results fitting the thick disc and halo with DES-Y3 data. *Monthly Notices of the Royal Astronomical Society*, **2020**, 497, 1547-1562	4.3	7
73	Supernova host galaxies in the dark energy survey: I. Deep coadds, photometry, and stellar masses. *Monthly Notices of the Royal Astronomical Society*, **2020**, 495, 4040-4060	4.3	16
72	Dark Energy Survey Year 1 Results: Wide-field mass maps via forward fitting in harmonic space. *Monthly Notices of the Royal Astronomical Society*, **2020**, 493, 5662-5679	4.3	8
71	The STRong lensing Insights into the Dark Energy Survey (STRIDES) 2017/2018 follow-up campaign: discovery of 10 lensed quasars and 10 quasar pairs. *Monthly Notices of the Royal Astronomical Society*, **2020**, 494, 3491-3511	4.3	12
70	Blinding multiprobe cosmological experiments. *Monthly Notices of the Royal Astronomical Society*, **2020**, 494, 4454-4470	4.3	15
69	Dark Energy Survey Year 3 results: cosmology with moments of weak lensing mass maps ☐ validation on simulations. *Monthly Notices of the Royal Astronomical Society*, **2020**, 498, 4060-4087	4.3	15
68	Observation and confirmation of nine strong-lensing systems in Dark Energy Survey Year 1 data. *Monthly Notices of the Royal Astronomical Society*, **2020**, 494, 1308-1322	4.3	4
67	An Extended Catalog of Galaxy☐Galaxy Strong Gravitational Lenses Discovered in DES Using Convolutional Neural Networks. *Astrophysical Journal, Supplement Series*, **2019**, 243, 17	8	34

66	Dark Energy Survey Year 1 results: the effect of intracluster light on photometric redshifts for weak gravitational lensing. *Monthly Notices of the Royal Astronomical Society*, **2019**, 488, 4389-4399	4.3	5
65	H0LiCOW X. Spectroscopic/imaging survey and galaxy-group identification around the strong gravitational lens system WFI 2033–4723. *Monthly Notices of the Royal Astronomical Society*, **2019**, 490, 613-633	4.3	16
64	Cosmological lensing ratios with DES Y1, SPT, and Planck. *Monthly Notices of the Royal Astronomical Society*, **2019**, 487, 1363-1379	4.3	11
63	Superluminous supernovae from the Dark Energy Survey. *Monthly Notices of the Royal Astronomical Society*, **2019**, 487, 2215-2241	4.3	37
62	Rediscovery of the Sixth Star Cluster in the Fornax Dwarf Spheroidal Galaxy. *Astrophysical Journal Letters*, **2019**, 875, L13	7.9	16
61	Astrometry and Occultation Predictions to Trans-Neptunian and Centaur Objects Observed within the Dark Energy Survey. *Astronomical Journal*, **2019**, 157, 120	4.9	4
60	Finding high-redshift strong lenses in DES using convolutional neural networks. *Monthly Notices of the Royal Astronomical Society*, **2019**, 484, 5330-5349	4.3	34
59	First cosmological results using Type Ia supernovae from the Dark Energy Survey: measurement of the Hubble constant. *Monthly Notices of the Royal Astronomical Society*, **2019**, 486, 2184-2196	4.3	93
58	Cosmological Constraints from Multiple Probes in the Dark Energy Survey. *Physical Review Letters*, **2019**, 122, 171301	7.4	50
57	First cosmology results using Type Ia supernova from the Dark Energy Survey: simulations to correct supernova distance biases. *Monthly Notices of the Royal Astronomical Society*, **2019**, 485, 1171-1187	4.3	37
56	Weak-lensing analysis of SPT-selected galaxy clusters using Dark Energy Survey Science Verification data. *Monthly Notices of the Royal Astronomical Society*, **2019**, 485, 69-87	4.3	14
55	A Search for Optical Emission from Binary Black Hole Merger GW170814 with the Dark Energy Camera. *Astrophysical Journal Letters*, **2019**, 873, L24	7.9	12
54	On the relative bias of void tracers in the Dark Energy Survey. *Monthly Notices of the Royal Astronomical Society*, **2019**, 487, 2836-2852	4.3	21
53	Methods for cluster cosmology and application to the SDSS in preparation for DES Year 1 release. *Monthly Notices of the Royal Astronomical Society*, **2019**, 488, 4779-4800	4.3	51
52	Brown dwarf census with the Dark Energy Survey year 3 data and the thin disc scale height of early L types. *Monthly Notices of the Royal Astronomical Society*, **2019**, 489, 5301-5325	4.3	12
51	Search for RR Lyrae stars in DES ultrafaint systems: Grus I, Kim 2, Phoenix II, and Grus II. *Monthly Notices of the Royal Astronomical Society*, **2019**, 490, 2183-2199	4.3	20
50	Mass variance from archival X-ray properties of Dark Energy Survey Year-1 galaxy clusters. *Monthly Notices of the Royal Astronomical Society*, **2019**, 490, 3341-3354	4.3	10
49	Detection of CMB-Cluster Lensing using Polarization Data from SPTpol. *Physical Review Letters*, **2019**, 123, 181301	7.4	8

48	Chemical Abundance Analysis of Tucana III, the Second r-process Enhanced Ultra-faint Dwarf Galaxy. *Astrophysical Journal*, **2019**, 882, 177	4.7	30
47	The Morphology and Structure of Stellar Populations in the Fornax Dwarf Spheroidal Galaxy from Dark Energy Survey Data. *Astrophysical Journal*, **2019**, 881, 118	4.7	18
46	Measuring linear and non-linear galaxy bias using counts-in-cells in the Dark Energy Survey Science Verification data. *Monthly Notices of the Royal Astronomical Society*, **2019**, 482, 1435-1451	4.3	10
45	Candidate massive galaxies atz￼-￼4 in the Dark Energy Survey. *Monthly Notices of the Royal Astronomical Society*, **2019**, 483, 3060-3081	4.3	14
44	Dark Energy Survey Year 1 Results: The Photometric Data Set for Cosmology. *Astrophysical Journal, Supplement Series*, **2018**, 235, 33	8	150
43	Dark Energy Survey Year 1 results: curved-sky weak lensing mass map. *Monthly Notices of the Royal Astronomical Society*, **2018**, 475, 3165-3190	4.3	44
42	Studying the Ultraviolet Spectrum of the First Spectroscopically Confirmed Supernova at Redshift Two. *Astrophysical Journal*, **2018**, 854, 37	4.7	20
41	Forward Global Photometric Calibration of the Dark Energy Survey. *Astronomical Journal*, **2018**, 155, 41	4.9	50
40	Stellar Streams Discovered in the Dark Energy Survey. *Astrophysical Journal*, **2018**, 862, 114	4.7	141
39	Dark Energy Survey Year 1 Results: redshift distributions of the weak-lensing source galaxies. *Monthly Notices of the Royal Astronomical Society*, **2018**, 478, 592-610	4.3	118
38	The Dark Energy Survey: Data Release 1. *Astrophysical Journal, Supplement Series*, **2018**, 239, 18	8	313
37	Modelling the Tucana III stream ￼a close passage with the LMC. *Monthly Notices of the Royal Astronomical Society*, **2018**,	4.3	32
36	The First Tidally Disrupted Ultra-faint Dwarf Galaxy?: A Spectroscopic Analysis of the Tucana III Stream. *Astrophysical Journal*, **2018**, 866, 22	4.7	43
35	Dark Energy Survey Year 1 Results: calibration of redMaGiC redshift distributions in DES and SDSS from cross-correlations. *Monthly Notices of the Royal Astronomical Society*, **2018**, 481, 2427-2443	4.3	34
34	DES meets Gaia: discovery of strongly lensed quasars from a multiplet search. *Monthly Notices of the Royal Astronomical Society*, **2018**, 479, 4345-4354	4.3	30
33	DES Y1 Results: validating cosmological parameter estimation using simulated Dark Energy Surveys. *Monthly Notices of the Royal Astronomical Society*, **2018**, 480, 4614-4635	4.3	25
32	The STRong lensing Insights into the Dark Energy Survey (STRIDES) 2016 follow-up campaign ￼I. New quasar lenses from double component fitting. *Monthly Notices of the Royal Astronomical Society*, **2018**,	4.3	10
31	Galaxy bias from galaxy￼galaxy lensing in the DES science verification data. *Monthly Notices of the Royal Astronomical Society*, **2018**, 473, 1667-1684	4.3	12

30	SEARCHING FOR DARK MATTER ANNIHILATION IN RECENTLY DISCOVERED MILKY WAY SATELLITES WITH FERMI-LAT. *Astrophysical Journal*, **2017**, 834, 110	4.7	249
29	Discovery and Physical Characterization of a Large Scattered Disk Object at 92 au. *Astrophysical Journal Letters*, **2017**, 839, L15	7.9	24
28	Astrometric Calibration and Performance of the Dark Energy Camera. *Publications of the Astronomical Society of the Pacific*, **2017**, 129, 074503	5	27
27	Nearest Neighbor: The Low-mass Milky Way Satellite Tucana III. *Astrophysical Journal*, **2017**, 838, 11	4.7	66
26	Farthest Neighbor: The Distant Milky Way Satellite Eridanus II. *Astrophysical Journal*, **2017**, 838, 8	4.7	93
25	Cosmology from large-scale galaxy clustering and galaxy-galaxy lensing with Dark Energy Survey Science Verification data. *Monthly Notices of the Royal Astronomical Society*, **2017**, 464, 4045-4062	4.3	32
24	Discovery of the Lensed Quasar System DES J0408-5354. *Astrophysical Journal Letters*, **2017**, 838, L15	7.9	30
23	The DES Bright Arcs Survey: Hundreds of Candidate Strongly Lensed Galaxy Systems from the Dark Energy Survey Science Verification and Year 1 Observations. *Astrophysical Journal, Supplement Series*, **2017**, 232, 15	8	33
22	The Dark Energy Survey view of the Sagittarius stream: discovery of two faint stellar system candidates. *Monthly Notices of the Royal Astronomical Society*, **2017**, 468, 97-108	4.3	31
21	Optical-SZE scaling relations for DES optically selected clusters within the SPT-SZ Survey. *Monthly Notices of the Royal Astronomical Society*, **2017**, 468, 3347-3360	4.3	13
20	Testing the lognormality of the galaxy and weak lensing convergence distributions from Dark Energy Survey maps. *Monthly Notices of the Royal Astronomical Society*, **2017**, 466, 1444-1461	4.3	41
19	Eight new luminous z ≥ 6 quasars discovered via SED model fitting of VISTA, WISE and Dark Energy Survey Year 1 observations. *Monthly Notices of the Royal Astronomical Society*, **2017**, 468, 4702-4718	4.3	66
18	Comparing Dark Energy Survey and HST-CLASH observations of the galaxy cluster RXC J2248.7-4431: implications for stellar mass versus dark matter. *Monthly Notices of the Royal Astronomical Society*, **2016**, 463, 1486-1499	4.3	11
17	Weak lensing by galaxy troughs in DES Science Verification data. *Monthly Notices of the Royal Astronomical Society*, **2016**, 455, 3367-3380	4.3	56
16	OBSERVATION OF TWO NEW L4 NEPTUNE TROJANS IN THE DARK ENERGY SURVEY SUPERNOVA FIELDS. *Astronomical Journal*, **2016**, 151, 39	4.9	18
15	THE PHOENIX STREAM: A COLD STREAM IN THE SOUTHERN HEMISPHERE. *Astrophysical Journal*, **2016**, 820, 58	4.7	38
14	redMaGiC: selecting luminous red galaxies from the DES Science Verification data. *Monthly Notices of the Royal Astronomical Society*, **2016**, 461, 1431-1450	4.3	118
13	DISCOVERY OF A STELLAR OVERDENSITY IN ERIDANUS-PHOENIX IN THE DARK ENERGY SURVEY. *Astrophysical Journal*, **2016**, 817, 135	4.7	29

12	OBSERVATION AND CONFIRMATION OF SIX STRONG-LENSING SYSTEMS IN THE DARK ENERGY SURVEY SCIENCE VERIFICATION DATA. *Astrophysical Journal*, **2016**, 827, 51	4.7	17
11	A DECAM SEARCH FOR AN OPTICAL COUNTERPART TO THE LIGO GRAVITATIONAL-WAVE EVENT GW151226. *Astrophysical Journal Letters*, **2016**, 826, L29	7.9	37
10	Wide-Field Lensing Mass Maps from Dark Energy Survey Science Verification Data. *Physical Review Letters*, **2015**, 115, 051301	7.4	34
9	STELLAR KINEMATICS AND METALLICITIES IN THE ULTRA-FAINT DWARF GALAXY RETICULUM II. *Astrophysical Journal*, **2015**, 808, 95	4.7	110
8	Discovery of two gravitationally lensed quasars in the Dark Energy Survey. *Monthly Notices of the Royal Astronomical Society*, **2015**, 454, 1260-1265	4.3	38
7	EIGHT NEW MILKY WAY COMPANIONS DISCOVERED IN FIRST-YEAR DARK ENERGY SURVEY DATA. *Astrophysical Journal*, **2015**, 807, 50	4.7	390
6	EIGHT ULTRA-FAINT GALAXY CANDIDATES DISCOVERED IN YEAR TWO OF THE DARK ENERGY SURVEY. *Astrophysical Journal*, **2015**, 813, 109	4.7	329
5	Dark Energy Survey Year 3 Results: Clustering redshifts calibration of the weak lensing source redshift distributions with redMaGiC and BOSS/eBOSS. *Monthly Notices of the Royal Astronomical Society*,	4.3	7
4	Dark Energy Survey Year 3 Results: Deep Field optical + near-infrared images and catalogue. *Monthly Notices of the Royal Astronomical Society*,	4.3	9
3	Probing gravity with the DES-CMASS sample and BOSS spectroscopy. *Monthly Notices of the Royal Astronomical Society*,	4.3	3
2	Rates and delay times of type Ia supernovae in the Dark Energy Survey. *Monthly Notices of the Royal Astronomical Society*,	4.3	5
1	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*,	4.3	9