

Adam Amara

List of Publications by Year in descending order

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Version: 2024-02-01

130
papers

6,582
citations

76326

40
h-index

74163

75
g-index

130
all docs

130
docs citations

130
times ranked

4487
citing authors

#	ARTICLE	IF	CITATIONS
1	Dark Energy Survey year 1 results: Cosmological constraints from galaxy clustering and weak lensing. Physical Review D, 2018, 98, .	4.7	751
2	Dark Energy Survey Year 1 results: Cosmological constraints from cosmic shear. Physical Review D, 2018, 98, .	4.7	412
3	<scp>pynpoint</scp>: an image processing package for finding exoplanets. Monthly Notices of the Royal Astronomical Society, 2012, 427, 948-955.	4.4	255
4	A YOUNG PROTOPLANET CANDIDATE EMBEDDED IN THE CIRCUMSTELLAR DISK OF HD 100546. Astrophysical Journal Letters, 2013, 766, L1.	8.3	187
5	lenstronomy: Multi-purpose gravitational lens modelling software package. Physics of the Dark Universe, 2018, 22, 189-201.	4.9	156
6	Photometric redshift analysis in the Dark Energy Survey Science Verification data. Monthly Notices of the Royal Astronomical Society, 2014, 445, 1482-1506.	4.4	146
7	DISCOVERY OF A COMPANION CANDIDATE IN THE HD 169142 TRANSITION DISK AND THE POSSIBILITY OF MULTIPLE PLANET FORMATION. Astrophysical Journal Letters, 2014, 792, L23.	8.3	142
8	Systematic bias in cosmic shear: extending the Fisher matrix. Monthly Notices of the Royal Astronomical Society, 2008, 391, 228-236.	4.4	139
9	The DES Science Verification weak lensing shear catalogues. Monthly Notices of the Royal Astronomical Society, 2016, 460, 2245-2281.	4.4	137
10	Noise bias in weak lensing shape measurements. Monthly Notices of the Royal Astronomical Society, 2012, 425, 1951-1957.	4.4	133
11	Optimal surveys for weak-lensing tomography. Monthly Notices of the Royal Astronomical Society, 0, 381, 1018-1026.	4.4	131
12	Constraining primordial non-Gaussianity with future galaxy surveys. Monthly Notices of the Royal Astronomical Society, 2012, 422, 2854-2877.	4.4	128
13	CONFIRMATION AND CHARACTERIZATION OF THE PROTOPLANET HD 100546 b"DIRECT EVIDENCE FOR GAS GIANT PLANET FORMATION AT 50 AU. Astrophysical Journal, 2015, 807, 64.	4.5	125
14	Cosmology from cosmic shear with Dark Energy Survey Science Verification data. Physical Review D, 2016, 94, .	4.7	125
15	Cosmology constraints from shear peak statistics in Dark Energy Survey Science Verification data. Monthly Notices of the Royal Astronomical Society, 2016, 463, 3653-3673.	4.4	119
16	GRAVITATIONAL LENS MODELING WITH BASIS SETS. Astrophysical Journal, 2015, 813, 102.	4.5	111
17	Redshift distributions of galaxies in the Dark Energy Survey Science Verification shear catalogue and implications for weak lensing. Physical Review D, 2016, 94, .	4.7	105
18	Point spread function calibration requirements for dark energy from cosmic shear. Astronomy and Astrophysics, 2008, 484, 67-77.	5.1	99

#	ARTICLE	IF	CITATIONS
19	Handbook for the GREAT08 Challenge: An image analysis competition for cosmological lensing. <i>Annals of Applied Statistics</i> , 2009, 3, .	1.1	93
20	The mass-sheet degeneracy and time-delay cosmography: analysis of the strong lens RXJ1131-1231. <i>Journal of Cosmology and Astroparticle Physics</i> , 2016, 2016, 020-020.	5.4	87
21	Weak-lensing mass calibration of redMaPPer galaxy clusters in Dark Energy Survey Science Verification data. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, 4899-4920.	4.4	87
22	Cosmic voids and void lensing in the Dark Energy Survey Science Verification data. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 465, 746-759.	4.4	86
23	Lensing substructure quantification in RXJ1131-1231: a 2 keV lower bound on dark matter thermal relic mass. <i>Journal of Cosmology and Astroparticle Physics</i> , 2017, 2017, 037-037.	5.4	83
24	Cosmic shear measurements with Dark Energy Survey Science Verification data. <i>Physical Review D</i> , 2016, 94, .	4.7	81
25	Measurement and calibration of noise bias in weak lensing galaxy shape estimation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 427, 2711-2722.	4.4	78
26	Approximate Bayesian computation for forward modeling in cosmology. <i>Journal of Cosmology and Astroparticle Physics</i> , 2015, 2015, 043-043.	5.4	78
27	Photometric redshifts for weak lensing tomography from space: the role of optical and near infrared photometry. <i>Monthly Notices of the Royal Astronomical Society</i> , 2008, 387, 969-986.	4.4	72
28	lenstronomy II: A gravitational lensing software ecosystem. <i>Journal of Open Source Software</i> , 2021, 6, 3283.	4.6	67
29	CosmoHammer: Cosmological parameter estimation with the MCMC Hammer. <i>Astronomy and Computing</i> , 2013, 2, 27-39.	1.7	66
30	A halo model for cosmological neutral hydrogen : abundances and clustering. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, 2323-2334.	4.4	63
31	Simulations of strong gravitational lensing with substructure. <i>Monthly Notices of the Royal Astronomical Society</i> , 2006, 367, 1367-1378.	4.4	62
32	The BUFFALO HST Survey. <i>Astrophysical Journal, Supplement Series</i> , 2020, 247, 64.	7.7	57
33	OPTIMIZED PRINCIPAL COMPONENT ANALYSIS ON CORONAGRAPHIC IMAGES OF THE FOMALHAUT SYSTEM. <i>Astrophysical Journal</i> , 2014, 780, 17.	4.5	56
34	FAst STatistics for weak Lensing (FASTLens): fast method for weak lensing statistics and map making. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009, 395, 1265-1279.	4.4	51
35	OPTIMAL CAPTURE OF NON-GAUSSIANITY IN WEAK-LENSING SURVEYS: POWER SPECTRUM, BISPECTRUM, AND HALO COUNTS. <i>Astrophysical Journal</i> , 2010, 712, 992-1002.	4.5	51
36	Cosmological constraints from noisy convergence maps through deep learning. <i>Physical Review D</i> , 2018, 98, .	4.7	49

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37	Cosmology from large-scale galaxy clustering and galaxy-galaxy lensing with Dark Energy Survey Science Verification data. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 464, 4045-4062.	4.4	48
38	Testing the lognormality of the galaxy and weak lensing convergence distributions from Dark Energy Survey maps. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 466, 1444-1461.	4.4	48
39	Results of the GREAT08 Challenge...: an image analysis competition for cosmological lensing. <i>Monthly Notices of the Royal Astronomical Society</i> , 0, , no-no.	4.4	47
40	Wide-field lensing mass maps from Dark Energy Survey science verification data: Methodology and detailed analysis. <i>Physical Review D</i> , 2015, 92, .	4.7	47
41	MAPPING AND SIMULATING SYSTEMATICS DUE TO SPATIALLY VARYING OBSERVING CONDITIONS IN DES SCIENCE VERIFICATION DATA. <i>Astrophysical Journal, Supplement Series</i> , 2016, 226, 24.	7.7	47
42	iCosmo: an interactive cosmology package. <i>Astronomy and Astrophysics</i> , 2011, 528, A33.	5.1	46
43	Cross-correlation of gravitational lensing from DES Science Verification data with SPT and Planck lensing. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 459, 21-34.	4.4	46
44	PynPoint: a modular pipeline architecture for processing and analysis of high-contrast imaging data. <i>Astronomy and Astrophysics</i> , 2019, 621, A59.	5.1	46
45	Small-scale structures of dark matter and flux anomalies in quasar gravitational lenses. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 419, 3414-3425.	4.4	41
46	A SIMPLE MODEL LINKING GALAXY AND DARK MATTER EVOLUTION. <i>Astrophysical Journal</i> , 2014, 793, 12.	4.5	40
47	Wide-Field Lensing Mass Maps from Dark Energy Survey Science Verification Data. <i>Physical Review Letters</i> , 2015, 115, 051301.	7.8	40
48	Combined analysis of weak lensing and X-ray blind surveys. <i>Monthly Notices of the Royal Astronomical Society</i> , 2008, 385, 695-707.	4.4	39
49	Beam Calibration of Radio Telescopes with Drones. <i>Publications of the Astronomical Society of the Pacific</i> , 2015, 127, 1131-1143.	3.1	39
50	DES meets Gaia: discovery of strongly lensed quasars from a multiplet search. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 479, 4345-4354.	4.4	39
51	The impact of galaxy colour gradients on cosmic shear measurement. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 421, 1385-1398.	4.4	38
52	Information gains from cosmic microwave background experiments. <i>Physical Review D</i> , 2014, 90, .	4.7	38
53	Line-of-sight effects in strong lensing: putting theory into practice. <i>Journal of Cosmology and Astroparticle Physics</i> , 2017, 2017, 049-049.	5.4	37
54	Cosmological systematics beyond nuisance parameters: form-filling functions. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009, 399, 2107-2128.	4.4	35

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55	Cosmological constraints from DES Y1 cluster abundances and SPT multiwavelength data. <i>Physical Review D</i> , 2021, 103, .	4.7	34
56	Fast point spread function modeling with deep learning. <i>Journal of Cosmology and Astroparticle Physics</i> , 2018, 2018, 054-054.	5.4	33
57	PynPoint code for exoplanet imaging. <i>Astronomy and Computing</i> , 2015, 10, 107-115.	1.7	32
58	MODELING THE TRANSFER FUNCTION FOR THE DARK ENERGY SURVEY. <i>Astrophysical Journal</i> , 2015, 801, 73.	4.5	32
59	Discovery of the Lensed Quasar System DES J0408-5354. <i>Astrophysical Journal Letters</i> , 2017, 838, L15.	8.3	32
60	Optimal point spread function modeling for weak lensing: complexity and sparsity. <i>Astronomy and Astrophysics</i> , 2009, 500, 647-655.	5.1	31
61	An Ultra Fast Image Generator (UFig) for wide-field astronomy. <i>Astronomy and Computing</i> , 2013, 1, 23-32.	1.7	31
62	CALIBRATED ULTRA FAST IMAGE SIMULATIONS FOR THE DARK ENERGY SURVEY. <i>Astrophysical Journal</i> , 2016, 817, 25.	4.5	31
63	Quantifying concordance in cosmology. <i>Physical Review D</i> , 2016, 93, .	4.7	31
64	Information gains from cosmological probes. <i>Journal of Cosmology and Astroparticle Physics</i> , 2016, 2016, 034-034.	5.4	30
65	Integrated approach to cosmology: Combining CMB, large-scale structure, and weak lensing. <i>Physical Review D</i> , 2016, 94, .	4.7	29
66	Consistency tests in cosmology using relative entropy. <i>Journal of Cosmology and Astroparticle Physics</i> , 2019, 2019, 011-011.	5.4	27
67	PCA-based approach for subtracting thermal background emission in high-contrast imaging data. <i>Astronomy and Astrophysics</i> , 2018, 611, A23.	5.1	26
68	On point spread function modelling: towards optimal interpolation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 419, 2356-2368.	4.4	24
69	Photo-z performance for precision cosmology. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010, , no-no.	4.4	23
70	Galaxy bias from the Dark Energy Survey Science Verification data: combining galaxy density maps and weak lensing maps. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 459, 3203-3216.	4.4	23
71	HOPE: A Python just-in-time compiler for astrophysical computations. <i>Astronomy and Computing</i> , 2015, 10, 1-8.	1.7	22
72	The redshift distribution of cosmological samples: a forward modeling approach. <i>Journal of Cosmology and Astroparticle Physics</i> , 2017, 2017, 035-035.	5.4	22

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73	M-dwarf exoplanet surface density distribution. <i>Astronomy and Astrophysics</i> , 2018, 612, L3.	5.1	22
74	Hydrogen Intensity and Real-Time Analysis Experiment: 256-element array status and overview. <i>Journal of Astronomical Telescopes, Instruments, and Systems</i> , 2022, 8, .	1.8	22
75	A way forward for Cosmic Shear: Monte-Carlo Control Loops. <i>Physics of the Dark Universe</i> , 2014, 3, 1-3.	4.9	21
76	Inference from the small scales of cosmic shear with current and future Dark Energy Survey data. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 465, 2567-2583.	4.4	21
77	Power spectrum normalization and the non-Gaussian halo model. <i>Monthly Notices of the Royal Astronomical Society</i> , 2004, 351, 375-383.	4.4	20
78	Core or Cusps: The Central Dark Matter Profile of a Strong Lensing Cluster with a Bright Central Image at Redshift 1. <i>Astrophysical Journal</i> , 2017, 843, 148.	4.5	20
79	Searching for cosmic strings in CMB anisotropy maps using wavelets and curvelets. <i>Journal of Cosmology and Astroparticle Physics</i> , 2017, 2017, 004-004.	5.4	20
80	Gauge-invariant formalism of cosmological weak lensing. <i>Journal of Cosmology and Astroparticle Physics</i> , 2018, 2018, 029-029.	5.4	19
81	HIDE & SEEK: End-to-end packages to simulate and process radio survey data. <i>Astronomy and Computing</i> , 2017, 18, 8-17.	1.7	18
82	Models of the strongly lensed quasar DES J0408 ^h 5354. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 472, 4038-4050.	4.4	18
83	Fast generation of covariance matrices for weak lensing. <i>Journal of Cosmology and Astroparticle Physics</i> , 2019, 2019, 044-044.	5.4	18
84	Comparison of droplet spread in standard and laminar flow operating theatres: SPRAY study group. <i>Journal of Hospital Infection</i> , 2021, 110, 194-200.	2.9	18
85	Integrated cosmological probes: Extended analysis. <i>Physical Review D</i> , 2017, 95, .	4.7	17
86	Accelerating Approximate Bayesian Computation with Quantile Regression: application to cosmological redshift distributions. <i>Journal of Cosmology and Astroparticle Physics</i> , 2018, 2018, 042-042.	5.4	17
87	Joint analysis of galaxy-galaxy lensing and galaxy clustering: Methodology and forecasts for Dark Energy Survey. <i>Physical Review D</i> , 2016, 94, .	4.7	16
88	Fisher matrix decomposition for dark energy prediction. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009, 398, 2134-2142.	4.4	15
89	Photo-z performance for precision cosmology - II. Empirical verification I ^h <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 421, 1671-1677.	4.4	15
90	Impact of astrophysics on cosmology forecasts for 21 ^h cm surveys. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 485, 4060-4070.	4.4	15

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91	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.	4.4	15
92	The COSMOS density field: a reconstruction using both weak lensing and galaxy distributions. Monthly Notices of the Royal Astronomical Society, 2012, 424, 553-563.	4.4	14
93	Simulating the large-scale structure of HI intensity maps. Journal of Cosmology and Astroparticle Physics, 2016, 2016, 001-001.	5.4	14
94	PyCosmo: An integrated cosmological Boltzmann solver. Astronomy and Computing, 2018, 25, 38-43.	1.7	14
95	Galaxy bias from galaxy–galaxy lensing in the DES science verification data. Monthly Notices of the Royal Astronomical Society, 2018, 473, 1667-1684.	4.4	14
96	Space-quality data from balloon-borne telescopes: The High Altitude Lensing Observatory (HALO). Astroparticle Physics, 2012, 38, 31-40.	4.3	13
97	The PAU survey: estimating galaxy photometry with deep learning. Monthly Notices of the Royal Astronomical Society, 2021, 506, 4048-4069.	4.4	12
98	Cosmic shear requirements on the wavelength dependence of telescope point spread functions. Monthly Notices of the Royal Astronomical Society, 2010, , .	4.4	11
99	Cosmic Shear with Einstein Rings. Astrophysical Journal Letters, 2018, 852, L14.	8.3	11
100	Monte-Carlo control loops for cosmic shear cosmology with DES Year 1 data. Physical Review D, 2020, 101, .	4.7	11
101	Measurement of the B-band galaxy Luminosity Function with Approximate Bayesian Computation. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 048-048.	5.4	11
102	Figures of merit for testing standard models: application to dark energy experiments in cosmology. Monthly Notices of the Royal Astronomical Society, 2011, 413, 1505-1514.	4.4	10
103	Noise from undetected sources in Dark Energy Survey images. Monthly Notices of the Royal Astronomical Society, 2020, 497, 2529-2539.	4.4	10
104	The PAU survey: measurement of narrow-band galaxy properties with approximate bayesian computation. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 013.	5.4	10
105	Cosmic shear systematics: software-hardware balance. Monthly Notices of the Royal Astronomical Society, 0, 404, 926-930.	4.4	9
106	Model breaking measure for cosmological surveys. Physical Review D, 2014, 89, .	4.7	9
107	The PAU Survey: a forward modeling approach for narrow-band imaging. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 035-035.	5.4	9
108	Dark matter distribution induced by a cosmic string wake in the nonlinear regime. Physical Review D, 2018, 98, .	4.7	9

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109	Cross-correlating 21Åcm and galaxy surveys: implications for cosmology and astrophysics. Monthly Notices of the Royal Astronomical Society, 2020, 495, 3935-3942.	4.4	9
110	WEAK LENSING MASS RECONSTRUCTION: FLEXION VERSUS SHEAR. Astrophysical Journal, 2010, 723, 1507-1511.	4.5	8
111	Integrated cosmological probes: concordance quantified. Journal of Cosmology and Astroparticle Physics, 2017, 2017, 045-045.	5.4	8
112	Cosmic shear calibration with forward modeling. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 007-007.	5.4	8
113	Forward modeling of spectroscopic galaxy surveys: application to SDSS. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 015-015.	5.4	7
114	Spectro-imaging forward model of red and blue galaxies. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 050-050.	5.4	7
115	Probe combination in large galaxy surveys: application of Fisher information and Shannon entropy to weak lensing. Monthly Notices of the Royal Astronomical Society, 2011, 417, 1938-1951.	4.4	6
116	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.	4.4	6
117	Combining strong and weak lensing estimates in the Cosmos field. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 010.	5.4	5
118	Predicting cosmological observables with PyCosmo. Astronomy and Computing, 2021, 36, 100484.	1.7	5
119	Likelihood-free Forward Modeling for Cluster Weak Lensing and Cosmology. Astrophysical Journal, 2022, 925, 145.	4.5	5
120	Weak lensing forecasts for dark energy, neutrinos and initial conditions. Annalen Der Physik, 2010, 19, 324-327.	2.4	4
121	Weak lensing forecasts for dark energy, neutrinos and initial conditions. Monthly Notices of the Royal Astronomical Society, 2010, , .	4.4	4
122	NIP: the near infrared imaging photometer for Euclid. Proceedings of SPIE, 2010, , .	0.8	4
123	SPOKES: An end-to-end simulation facility for spectroscopic cosmological surveys. Astronomy and Computing, 2016, 15, 1-15.	1.7	4
124	An integrated system at the Bleien Observatory for mapping the Galaxy. Monthly Notices of the Royal Astronomical Society, 2017, 464, 1727-1737.	4.4	4
125	SkyPy: A package for modelling the Universe. Journal of Open Source Software, 2021, 6, 3056.	4.6	4
126	Cosmological model discrimination from weak lensing data. , 2010, , .		3

#	ARTICLE	IF	CITATIONS
127	Detection of dental fomites using topical fluorescein. British Dental Journal, 0, , .	0.6	1
128	Image processing challenges in weak gravitational lensing. , 2011, , .		0
129	Testing Optimized Principal Component Analysis on Coronagraphic Images of the Fomalhaut System. Proceedings of the International Astronomical Union, 2013, 8, 56-57.	0.0	0
130	Information Gains in Cosmological Parameter Estimation. Proceedings of the International Astronomical Union, 2014, 10, 206-209.	0.0	0