

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	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
2	Likelihood-free Forward Modeling for Cluster Weak Lensing and Cosmology. <i>Astrophysical Journal</i> , 2022, 925, 145.	4.5	5
3	Cosmological constraints from DES Y1 cluster abundances and SPT multiwavelength data. <i>Physical Review D</i> , 2021, 103, .	4.7	34
4	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
5	Combining strong and weak lensing estimates in the Cosmos field. <i>Journal of Cosmology and Astroparticle Physics</i> , 2021, 2021, 010.	5.4	5
6	lenstronomy II: A gravitational lensing software ecosystem. <i>Journal of Open Source Software</i> , 2021, 6, 3283.	4.6	67
7	The PAU survey: estimating galaxy photometry with deep learning. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 506, 4048-4069.	4.4	12
8	Predicting cosmological observables with PyCosmo. <i>Astronomy and Computing</i> , 2021, 36, 100484.	1.7	5
9	SkyPy: A package for modelling the Universe. <i>Journal of Open Source Software</i> , 2021, 6, 3056.	4.6	4
10	The PAU survey: measurement of narrow-band galaxy properties with approximate bayesian computation. <i>Journal of Cosmology and Astroparticle Physics</i> , 2021, 2021, 013.	5.4	10
11	Modelling the Milky Way – I. Method and first results fitting the thick disc and halo with DES-Y3 data. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 497, 1547-1562.	4.4	15
12	Observation and confirmation of nine strong-lensing systems in Dark Energy Survey Year 1 data. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 494, 1308-1322.	4.4	6
13	Cross-correlating 21Åcm and galaxy surveys: implications for cosmology and astrophysics. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 495, 3935-3942.	4.4	9
14	Noise from undetected sources in Dark Energy Survey images. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 497, 2529-2539.	4.4	10
15	The BUFFALO HST Survey. <i>Astrophysical Journal, Supplement Series</i> , 2020, 247, 64.	7.7	57
16	Monte-Carlo control loops for cosmic shear cosmology with DES Year 1 data. <i>Physical Review D</i> , 2020, 101, .	4.7	11
17	Measurement of the B-band galaxy Luminosity Function with Approximate Bayesian Computation. <i>Journal of Cosmology and Astroparticle Physics</i> , 2020, 2020, 048-048.	5.4	11
18	Spectro-imaging forward model of red and blue galaxies. <i>Journal of Cosmology and Astroparticle Physics</i> , 2020, 2020, 050-050.	5.4	7

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19	Consistency tests in cosmology using relative entropy. <i>Journal of Cosmology and Astroparticle Physics</i> , 2019, 2019, 011-011.	5.4	27
20	Fast generation of covariance matrices for weak lensing. <i>Journal of Cosmology and Astroparticle Physics</i> , 2019, 2019, 044-044.	5.4	18
21	Impact of astrophysics on cosmology forecasts for 21Âcm surveys. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 485, 4060-4070.	4.4	15
22	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
23	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
24	Cosmic Shear with Einstein Rings. <i>Astrophysical Journal Letters</i> , 2018, 852, L14.	8.3	11
25	PCA-based approach for subtracting thermal background emission in high-contrast imaging data. <i>Astronomy and Astrophysics</i> , 2018, 611, A23.	5.1	26
26	Forward modeling of spectroscopic galaxy surveys: application to SDSS. <i>Journal of Cosmology and Astroparticle Physics</i> , 2018, 2018, 015-015.	5.4	7
27	lenstronomy: Multi-purpose gravitational lens modelling software package. <i>Physics of the Dark Universe</i> , 2018, 22, 189-201.	4.9	156
28	The PAU Survey: a forward modeling approach for narrow-band imaging. <i>Journal of Cosmology and Astroparticle Physics</i> , 2018, 2018, 035-035.	5.4	9
29	Cosmological constraints from noisy convergence maps through deep learning. <i>Physical Review D</i> , 2018, 98, .	4.7	49
30	M-dwarf exoplanet surface density distribution. <i>Astronomy and Astrophysics</i> , 2018, 612, L3.	5.1	22
31	Fast point spread function modeling with deep learning. <i>Journal of Cosmology and Astroparticle Physics</i> , 2018, 2018, 054-054.	5.4	33
32	Dark matter distribution induced by a cosmic string wake in the nonlinear regime. <i>Physical Review D</i> , 2018, 98, .	4.7	9
33	PyCosmo: An integrated cosmological Boltzmann solver. <i>Astronomy and Computing</i> , 2018, 25, 38-43.	1.7	14
34	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
35	Galaxy bias from galaxyâ€“galaxy lensing in the DES science verification data. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 473, 1667-1684.	4.4	14
36	Gauge-invariant formalism of cosmological weak lensing. <i>Journal of Cosmology and Astroparticle Physics</i> , 2018, 2018, 029-029.	5.4	19

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37	Dark Energy Survey year 1 results: Cosmological constraints from galaxy clustering and weak lensing. <i>Physical Review D</i> , 2018, 98, .	4.7	751
38	Dark Energy Survey Year 1 results: Cosmological constraints from cosmic shear. <i>Physical Review D</i> , 2018, 98, .	4.7	412
39	Cosmic shear calibration with forward modeling. <i>Journal of Cosmology and Astroparticle Physics</i> , 2018, 2018, 007-007.	5.4	8
40	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
41	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
42	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
43	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
44	Cosmology from large-scale galaxy clustering and galaxyâ€“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
45	Models of the strongly lensed quasar DES J0408â€”5354. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 472, 4038-4050.	4.4	18
46	Discovery of the Lensed Quasar System DES J0408-5354. <i>Astrophysical Journal Letters</i> , 2017, 838, L15.	8.3	32
47	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
48	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
49	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
50	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
51	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
52	An integrated system at the Bleien Observatory for mapping the Galaxy. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 464, 1727-1737.	4.4	4
53	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
54	Integrated cosmological probes: Extended analysis. <i>Physical Review D</i> , 2017, 95, .	4.7	17

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55	Integrated cosmological probes: concordance quantified. <i>Journal of Cosmology and Astroparticle Physics</i> , 2017, 2017, 045-045.	5.4	8
56	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
57	CALIBRATED ULTRA FAST IMAGE SIMULATIONS FOR THE DARK ENERGY SURVEY. <i>Astrophysical Journal</i> , 2016, 817, 25.	4.5	31
58	Cosmology constraints from shear peak statistics in Dark Energy Survey Science Verification data. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 463, 3653-3673.	4.4	119
59	Simulating the large-scale structure of HI intensity maps. <i>Journal of Cosmology and Astroparticle Physics</i> , 2016, 2016, 001-001.	5.4	14
60	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
61	Cosmology from cosmic shear with Dark Energy Survey Science Verification data. <i>Physical Review D</i> , 2016, 94, .	4.7	125
62	Redshift distributions of galaxies in the Dark Energy Survey Science Verification shear catalogue and implications for weak lensing. <i>Physical Review D</i> , 2016, 94, .	4.7	105
63	Cosmic shear measurements with Dark Energy Survey Science Verification data. <i>Physical Review D</i> , 2016, 94, .	4.7	81
64	SPOKES: An end-to-end simulation facility for spectroscopic cosmological surveys. <i>Astronomy and Computing</i> , 2016, 15, 1-15.	1.7	4
65	Information gains from cosmological probes. <i>Journal of Cosmology and Astroparticle Physics</i> , 2016, 2016, 034-034.	5.4	30
66	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
67	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
68	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
69	Quantifying concordance in cosmology. <i>Physical Review D</i> , 2016, 93, .	4.7	31
70	The DES Science Verification weak lensing shear catalogues. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 460, 2245-2281.	4.4	137
71	Integrated approach to cosmology: Combining CMB, large-scale structure, and weak lensing. <i>Physical Review D</i> , 2016, 94, .	4.7	29
72	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

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73	GRAVITATIONAL LENS MODELING WITH BASIS SETS. <i>Astrophysical Journal</i> , 2015, 813, 102.	4.5	111
74	Beam Calibration of Radio Telescopes with Drones. <i>Publications of the Astronomical Society of the Pacific</i> , 2015, 127, 1131-1143.	3.1	39
75	HOPE: A Python just-in-time compiler for astrophysical computations. <i>Astronomy and Computing</i> , 2015, 10, 1-8.	1.7	22
76	PynPoint code for exoplanet imaging. <i>Astronomy and Computing</i> , 2015, 10, 107-115.	1.7	32
77	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
78	Wide-Field Lensing Mass Maps from Dark Energy Survey Science Verification Data. <i>Physical Review Letters</i> , 2015, 115, 051301.	7.8	40
79	CONFIRMATION AND CHARACTERIZATION OF THE PROTOPLANET HD 100546 bâ€”DIRECT EVIDENCE FOR GAS GIANT PLANET FORMATION AT 50 AU. <i>Astrophysical Journal</i> , 2015, 807, 64.	4.5	125
80	MODELING THE TRANSFER FUNCTION FOR THE DARK ENERGY SURVEY. <i>Astrophysical Journal</i> , 2015, 801, 73.	4.5	32
81	Approximate Bayesian computation for forward modeling in cosmology. <i>Journal of Cosmology and Astroparticle Physics</i> , 2015, 2015, 043-043.	5.4	78
82	Photometric redshift analysis in the Dark Energy Survey Science Verification data. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 445, 1482-1506.	4.4	146
83	Information gains from cosmic microwave background experiments. <i>Physical Review D</i> , 2014, 90, .	4.7	38
84	Model breaking measure for cosmological surveys. <i>Physical Review D</i> , 2014, 89, .	4.7	9
85	DISCOVERY OF A COMPANION CANDIDATE IN THE HD 169142 TRANSITION DISK AND THE POSSIBILITY OF MULTIPLE PLANET FORMATION. <i>Astrophysical Journal Letters</i> , 2014, 792, L23.	8.3	142
86	OPTIMIZED PRINCIPAL COMPONENT ANALYSIS ON CORONAGRAPHIC IMAGES OF THE FOMALHAUT SYSTEM. <i>Astrophysical Journal</i> , 2014, 780, 17.	4.5	56
87	A SIMPLE MODEL LINKING GALAXY AND DARK MATTER EVOLUTION. <i>Astrophysical Journal</i> , 2014, 793, 12.	4.5	40
88	A wayâ€”forward for Cosmic Shear: Monte-Carlo Control Loops. <i>Physics of the Dark Universe</i> , 2014, 3, 1-3.	4.9	21
89	Information Gains in Cosmological Parameter Estimation. <i>Proceedings of the International Astronomical Union</i> , 2014, 10, 206-209.	0.0	0
90	CosmoHammer: Cosmological parameter estimation with the MCMC Hammer. <i>Astronomy and Computing</i> , 2013, 2, 27-39.	1.7	66

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91	An Ultra Fast Image Generator (UFig) for wide-field astronomy. <i>Astronomy and Computing</i> , 2013, 1, 23-32.	1.7	31
92	A YOUNG PROTOPLANET CANDIDATE EMBEDDED IN THE CIRCUMSTELLAR DISK OF HD 100546. <i>Astrophysical Journal Letters</i> , 2013, 766, L1.	8.3	187
93	Testing Optimized Principal Component Analysis on Coronagraphic Images of the Fomalhaut System. <i>Proceedings of the International Astronomical Union</i> , 2013, 8, 56-57.	0.0	0
94	Noise bias in weak lensing shape measurements. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 425, 1951-1957.	4.4	133
95	Space-quality data from balloon-borne telescopes: The High Altitude Lensing Observatory (HALO). <i>Astroparticle Physics</i> , 2012, 38, 31-40.	4.3	13
96	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
97	<scp>pynpoint</scp>: an image processing package for finding exoplanets. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 427, 948-955.	4.4	255
98	On point spread function modelling: towards optimal interpolation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 419, 2356-2368.	4.4	24
99	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
100	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
101	Photo-zperformance for precision cosmology - II. Empirical verification1âˆ™.... <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 421, 1671-1677.	4.4	15
102	Constraining primordial non-Gaussianity with future galaxy surveys. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 422, 2854-2877.	4.4	128
103	The COSMOS density field: a reconstruction using both weak lensing and galaxy distributions. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 424, 553-563.	4.4	14
104	Image processing challenges in weak gravitational lensing. , 2011, , .		0
105	iCosmo: an interactive cosmology package. <i>Astronomy and Astrophysics</i> , 2011, 528, A33.	5.1	46
106	Figures of merit for testing standard models: application to dark energy experiments in cosmology. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 413, 1505-1514.	4.4	10
107	Probe combination in large galaxy surveys: application of Fisher information and Shannon entropy to weak lensing. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 417, 1938-1951.	4.4	6
108	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

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109	Weak lensing forecasts for dark energy, neutrinos and initial conditions. <i>Annalen Der Physik</i> , 2010, 19, 324-327.	2.4	4
110	Weak lensing forecasts for dark energy, neutrinos and initial conditions. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010, , .	4.4	4
111	Cosmic shear requirements on the wavelength dependence of telescope point spread functions. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010, , .	4.4	11
112	Photo-z performance for precision cosmology. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010, , no-no.	4.4	23
113	WEAK LENSING MASS RECONSTRUCTION: FLEXION VERSUS SHEAR. <i>Astrophysical Journal</i> , 2010, 723, 1507-1511.	4.5	8
114	Cosmological model discrimination from weak lensing data. , 2010, , .		3
115	NIP: the near infrared imaging photometer for Euclid. <i>Proceedings of SPIE</i> , 2010, , .	0.8	4
116	Optimal point spread function modeling for weak lensing: complexity and sparsity. <i>Astronomy and Astrophysics</i> , 2009, 500, 647-655.	5.1	31
117	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
118	Fisher matrix decomposition for dark energy prediction. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009, 398, 2134-2142.	4.4	15
119	Cosmological systematics beyond nuisance parameters: form-filling functions. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009, 399, 2107-2128.	4.4	35
120	Handbook for the GREAT08 Challenge: An image analysis competition for cosmological lensing. <i>Annals of Applied Statistics</i> , 2009, 3, .	1.1	93
121	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
122	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
123	Systematic bias in cosmic shear: extending the Fisher matrix. <i>Monthly Notices of the Royal Astronomical Society</i> , 2008, 391, 228-236.	4.4	139
124	Point spread function calibration requirements for dark energy from cosmic shear. <i>Astronomy and Astrophysics</i> , 2008, 484, 67-77.	5.1	99
125	Simulations of strong gravitational lensing with substructure. <i>Monthly Notices of the Royal Astronomical Society</i> , 2006, 367, 1367-1378.	4.4	62
126	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

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127	Optimal surveys for weak-lensing tomography. Monthly Notices of the Royal Astronomical Society, 0, 381, 1018-1026.	4.4	131
128	Cosmic shear systematics: software-hardware balance. Monthly Notices of the Royal Astronomical Society, 0, 404, 926-930.	4.4	9
129	Results of the GREAT08 Challenge~...: an image analysis competition for cosmological lensing. Monthly Notices of the Royal Astronomical Society, 0, , no-no.	4.4	47
130	Detection of dental fomites using topical fluorescein. British Dental Journal, 0, , .	0.6	1