

Richard Massey

List of Publications by Year in descending order

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Version: 2024-02-01

72
papers

7,284
citations

70961

41
h-index

95083

68
g-index

72
all docs

72
docs citations

72
times ranked

4782
citing authors

#	ARTICLE	IF	CITATIONS
1	Cosmology and Fundamental Physics with the Euclid Satellite. Living Reviews in Relativity, 2013, 16, 6.	8.2	683
2	Cosmology and fundamental physics with the Euclid satellite. Living Reviews in Relativity, 2018, 21, 2.	8.2	602
3	NEW CONSTRAINTS ON THE EVOLUTION OF THE STELLAR-TO-DARK MATTER CONNECTION: A COMBINED ANALYSIS OF GALAXY-GALAXY LENSING, CLUSTERING, AND STELLAR MASS FUNCTIONS FROM $z = 0.2$ TO $z = 1$. Astrophysical Journal, 2012, 744, 159.	1.6	437
4	The Shear Testing Programme â€” I. Weak lensing analysis of simulated ground-based observations. Monthly Notices of the Royal Astronomical Society, 2006, 368, 1323-1339.	1.6	389
5	The nongravitational interactions of dark matter in colliding galaxy clusters. Science, 2015, 347, 1462-1465.	6.0	366
6	Weak Gravitational Lensing with COSMOS: Galaxy Selection and Shape Measurements. Astrophysical Journal, Supplement Series, 2007, 172, 219-238.	3.0	325
7	The Shear Testing Programme 2: Factors affecting high-precision weak-lensing analyses. Monthly Notices of the Royal Astronomical Society, 2007, 376, 13-38.	1.6	321
8	Dark matter maps reveal cosmic scaffolding. Nature, 2007, 445, 286-290.	13.7	302
9	Revealing the Properties of Dark Matter in the Merging Cluster MACS J0025.4âˆ”1222. Astrophysical Journal, 2008, 687, 959-967.	1.6	228
10	A WEAK LENSING STUDY OF X-RAY GROUPS IN THE COSMOS SURVEY: FORM AND EVOLUTION OF THE MASS-LUMINOSITY RELATION. Astrophysical Journal, 2010, 709, 97-114.	1.6	227
11	COSMOS: Three-dimensional Weak Lensing and the Growth of Structure. Astrophysical Journal, Supplement Series, 2007, 172, 239-253.	3.0	212
12	The dark matter of gravitational lensing. Reports on Progress in Physics, 2010, 73, 086901.	8.1	184
13	What does the Bullet Cluster tell us about self-interacting dark matter?. Monthly Notices of the Royal Astronomical Society, 2017, 465, 569-587.	1.6	155
14	Origins of weak lensing systematics, and requirements on future instrumentation (or knowledge of) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	1.6	153
15	The behaviour of dark matter associated with four bright cluster galaxies in the 10 kpc core of Abell 3827. Monthly Notices of the Royal Astronomical Society, 2015, 449, 3393-3406.	1.6	147
16	Pixel-based correction for Charge Transfer Inefficiency in the Hubble Space Telescope Advanced Camera for Surveys. Monthly Notices of the Royal Astronomical Society, 2010, 401, 371-384.	1.6	133
17	Warmâ€”hot baryons comprise 5â€”10 per cent of filaments in the cosmic web. Nature, 2015, 528, 105-107.	13.7	133
18	THE THIRD GRAVITATIONAL LENSING ACCURACY TESTING (GREAT3) CHALLENGE HANDBOOK. Astrophysical Journal, Supplement Series, 2014, 212, 5.	3.0	125

#	ARTICLE	IF	CITATIONS
19	GALAXIES IN X-RAY GROUPS. II. A WEAK LENSING STUDY OF HALO CENTERING. <i>Astrophysical Journal</i> , 2012, 757, 2.	1.6	118
20	EVOLUTION OF THE STELLAR-TO-DARK MATTER RELATION: SEPARATING STAR-FORMING AND PASSIVE GALAXIES FROM $z = 1$ TO 0. <i>Astrophysical Journal</i> , 2013, 778, 93.	1.6	117
21	First Catalog of Strong Lens Candidates in the COSMOS Field. <i>Astrophysical Journal, Supplement Series</i> , 2008, 176, 19-38.	3.0	101
22	A weak lensing mass reconstruction of the large-scale filament feeding the massive galaxy cluster MACSJ0717.5+3745. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 426, 3369-3384.	1.6	94
23	Handbook for the GREAT08 Challenge: An image analysis competition for cosmological lensing. <i>Annals of Applied Statistics</i> , 2009, 3, .	0.5	93
24	Defining a weak lensing experiment in space. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 431, 3103-3126.	1.6	74
25	Weak Lensing from Space. III. Cosmological Parameters. <i>Astronomical Journal</i> , 2004, 127, 3102-3114.	1.9	73
26	Observable tests of self-interacting dark matter in galaxy clusters: cosmological simulations with SIDM and baryons. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 488, 3646-3662.	1.6	72
27	A DETECTION OF WEAK-LENSING MAGNIFICATION USING GALAXY SIZES AND MAGNITUDES. <i>Astrophysical Journal Letters</i> , 2012, 744, L22.	3.0	64
28	ON DARK PEAKS AND MISSING MASS: A WEAK-LENSING MASS RECONSTRUCTION OF THE MERGING CLUSTER SYSTEM A520,. <i>Astrophysical Journal</i> , 2012, 758, 128.	1.6	63
29	Hubble Frontier Fields: the geometry and dynamics of the massive galaxy cluster merger MACSJ0416.1-2403. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 446, 4132-4147.	1.6	63
30	WEAK LENSING MEASUREMENT OF GALAXY CLUSTERS IN THE CFHTLS-WIDE SURVEY. <i>Astrophysical Journal</i> , 2012, 748, 56.	1.6	60
31	Gravitational Shear, Flexion, and Strong Lensing in Abell 1689. <i>Astrophysical Journal</i> , 2007, 666, 51-63.	1.6	59
32	Weak gravitational shear and flexion with polar shapelets. <i>Monthly Notices of the Royal Astronomical Society</i> , 0, 380, 229-245.	1.6	58
33	An improved model of charge transfer inefficiency and correction algorithm for the Hubble Space Telescope. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 439, 887-907.	1.6	58
34	Cosmic particle colliders: simulations of self-interacting dark matter with anisotropic scattering. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 467, 4719-4730.	1.6	57
35	Observable tests of self-interacting dark matter in galaxy clusters: BCG wobbles in a constant density core. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 488, 1572-1579.	1.6	57
36	The BUFFALO HST Survey. <i>Astrophysical Journal, Supplement Series</i> , 2020, 247, 64.	3.0	57

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37	FRONTIER FIELDS: SUBARU WEAK-LENSING ANALYSIS OF THE MERGING GALAXY CLUSTER A2744*. <i>Astrophysical Journal</i> , 2016, 817, 24.	1.6	54
38	An enlarged cosmic shear survey with the William Herschel Telescope. <i>Monthly Notices of the Royal Astronomical Society</i> , 2005, 359, 1277-1286.	1.6	53
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.	1.6	47
40	Weak Lensing from Space. II. Dark Matter Mapping. <i>Astronomical Journal</i> , 2004, 127, 3089-3101.	1.9	45
41	COSMOS: STOCHASTIC BIAS FROM MEASUREMENTS OF WEAK LENSING AND GALAXY CLUSTERING. <i>Astrophysical Journal</i> , 2012, 750, 37.	1.6	45
42	The Effects of Charge Transfer Inefficiency (CTI) on Galaxy Shape Measurements. <i>Publications of the Astronomical Society of the Pacific</i> , 2010, 122, 439-450.	1.0	44
43	Scientific Synergy between LSST and Euclid. <i>Astrophysical Journal, Supplement Series</i> , 2017, 233, 21.	3.0	44
44	Image simulation with shapelets. <i>Monthly Notices of the Royal Astronomical Society</i> , 2004, 348, 214-226.	1.6	42
45	Combined analysis of weak lensing and X-ray blind surveys. <i>Monthly Notices of the Royal Astronomical Society</i> , 2008, 385, 695-707.	1.6	39
46	The dark matter haloes of moderate luminosity X-ray AGN as determined from weak gravitational lensing and host stellar masses. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 446, 1874-1888.	1.6	35
47	THE CORRELATED FORMATION HISTORIES OF MASSIVE GALAXIES AND THEIR DARK MATTER HALOS. <i>Astrophysical Journal Letters</i> , 2012, 755, L5.	3.0	33
48	Cluster bulleticity. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 413, 1709-1716.	1.6	31
49	On the cross-section of dark matter using substructure infall into galaxy clusters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 441, 404-416.	1.6	29
50	The offsets between galaxies and their dark matter in $\hat{\nu}$ cold dark matter. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2015, 453, L58-L62.	1.2	28
51	First lensing measurements of SZ-detected clusters. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2009, 399, L84-L88.	1.2	26
52	Dark matter dynamics in Abell 3827: new data consistent with standard cold dark matter. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 477, 669-677.	1.6	22
53	The core of the massive cluster merger MACSJ0417.5-1154 as seen by VLT/MUSE. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 483, 3082-3097.	1.6	20
54	How well can charge transfer inefficiency be corrected? A parameter sensitivity study for iterative correction. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 453, 561-580.	1.6	18

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55	Flexion measurement in simulations of Hubble Space Telescope data. Monthly Notices of the Royal Astronomical Society, 2013, 435, 822-844.	1.6	17
56	The shape of galaxy dark matter haloes in massive galaxy clusters: insights from strong gravitational lensing. Monthly Notices of the Royal Astronomical Society, 2018, 477, 4046-4051.	1.6	17
57	Dark matter astrometry: accuracy of subhalo positions for the measurement of self-interaction cross-sections. Monthly Notices of the Royal Astronomical Society, 2013, 433, 1517-1528.	1.6	13
58	A test for skewed distributions of dark matter, and a possible detection in galaxy cluster Abell 3827. Monthly Notices of the Royal Astronomical Society, 2017, 468, 5004-5013.	1.6	13
59	The distribution of dark matter and gas spanning 6 Mpc around the post-merger galaxy cluster MSâ€‰0451â€‰03. Monthly Notices of the Royal Astronomical Society, 2020, 496, 4032-4050.	1.6	13
60	A Comparison of Weakâ€‰Lensing Measurements from Groundâ€‰and Spaceâ€‰Based Facilities. Astrophysical Journal, 2008, 684, 34-45.	1.6	12
61	Looking for dark matter trails in colliding galaxy clusters. Monthly Notices of the Royal Astronomical Society, 2017, 464, 3991-3997.	1.6	12
62	Pilot-WINGS: An extended MUSE view of the structure of Abell 370. Monthly Notices of the Royal Astronomical Society, 2022, 514, 497-517.	1.6	12
63	IDCS J1426.5+3508: WEAK LENSING ANALYSIS OF A MASSIVE GALAXY CLUSTER AT $z = 1.75$. Astrophysical Journal Letters, 2016, 818, L25.	3.0	11
64	Reconciling galaxy cluster shapes, measured by theorists versus observers. Monthly Notices of the Royal Astronomical Society, 2020, 500, 2627-2644.	1.6	11
65	Pixelation Effects in Weak Lensing. Publications of the Astronomical Society of the Pacific, 2007, 119, 1295-1307.	1.0	9
66	Weak-Lensing Ellipticities in a Strong-Lensing Regime. Astrophysical Journal, 2008, 673, L111-L114.	1.6	7
67	Color, 3D simulated images with shapelets. Astroparticle Physics, 2008, 30, 65-71.	1.9	6
68	Validation of PSF models for <i>HST</i> and other space-based observations. Monthly Notices of the Royal Astronomical Society, 2020, 496, 5017-5038.	1.6	5
69	The effects of self-interacting dark matter on the stripping of galaxies that fall into clusters. Monthly Notices of the Royal Astronomical Society, 2022, 511, 5927-5935.	1.6	5
70	Self-interacting dark matter scattering rates through cosmic time. Monthly Notices of the Royal Astronomical Society, 2015, 453, 2268-2277.	1.6	4
71	Mapping dark matter and finding filaments: calibration of lensing analysis techniques on simulated data. Monthly Notices of the Royal Astronomical Society, 2020, 496, 3973-3990.	1.6	2
72	Lossy Compression of Weak-Lensing Data. Publications of the Astronomical Society of the Pacific, 2011, 123, 996-1003.	1.0	0