

Richard Massey

List of Publications by Year in descending order

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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	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
2	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
3	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
4	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
5	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
6	The BUFFALO HST Survey. Astrophysical Journal, Supplement Series, 2020, 247, 64.	3.0	57
7	Reconciling galaxy cluster shapes, measured by theorists versus observers. Monthly Notices of the Royal Astronomical Society, 2020, 500, 2627-2644.	1.6	11
8	Observable tests of self-interacting dark matter in galaxy clusters: BCG wobbles in a constant density core. Monthly Notices of the Royal Astronomical Society, 2019, 488, 1572-1579.	1.6	57
9	Observable tests of self-interacting dark matter in galaxy clusters: cosmological simulations with SIDM and baryons. Monthly Notices of the Royal Astronomical Society, 2019, 488, 3646-3662.	1.6	72
10	The core of the massive cluster merger MACSâ€‰J0417.5â€‰1154 as seen by VLT/MUSE. Monthly Notices of the Royal Astronomical Society, 2019, 483, 3082-3097.	1.6	20
11	Dark matter dynamics in Abell 3827: new data consistent with standard cold dark matter. Monthly Notices of the Royal Astronomical Society, 2018, 477, 669-677.	1.6	22
12	Cosmology and fundamental physics with the Euclid satellite. Living Reviews in Relativity, 2018, 21, 2.	8.2	602
13	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
14	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
15	Cosmic particle colliders: simulations of self-interacting dark matter with anisotropic scattering. Monthly Notices of the Royal Astronomical Society, 2017, 467, 4719-4730.	1.6	57
16	Looking for dark matter trails in colliding galaxy clusters. Monthly Notices of the Royal Astronomical Society, 2017, 464, 3991-3997.	1.6	12
17	Scientific Synergy between LSST and <i>Euclid</i> . Astrophysical Journal, Supplement Series, 2017, 233, 21.	3.0	44
18	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

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19	IDCS J1426.5+3508: WEAK LENSING ANALYSIS OF A MASSIVE GALAXY CLUSTER AT $z = 1.75$. <i>Astrophysical Journal Letters</i> , 2016, 818, L25.	3.0	11
20	FRONTIER FIELDS: SUBARU WEAK-LENSING ANALYSIS OF THE MERGING GALAXY CLUSTER A2744*. <i>Astrophysical Journal</i> , 2016, 817, 24.	1.6	54
21	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
22	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
23	The behaviour of dark matter associated with four bright cluster galaxies in the 10 kpc core of Abell 3827. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 449, 3393-3406.	1.6	147
24	The nongravitational interactions of dark matter in colliding galaxy clusters. <i>Science</i> , 2015, 347, 1462-1465.	6.0	366
25	The offsets between galaxies and their dark matter in Λ cold dark matter. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2015, 453, L58-L62.	1.2	28
26	Self-interacting dark matter scattering rates through cosmic time. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 453, 2268-2277.	1.6	4
27	Warm "hot baryons comprise 5-10 per cent of filaments in the cosmic web. <i>Nature</i> , 2015, 528, 105-107.	13.7	133
28	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
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	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
31	THE THIRD GRAVITATIONAL LENSING ACCURACY TESTING (GREAT3) CHALLENGE HANDBOOK. <i>Astrophysical Journal, Supplement Series</i> , 2014, 212, 5.	3.0	125
32	Flexion measurement in simulations of Hubble Space Telescope data. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 435, 822-844.	1.6	17
33	Cosmology and Fundamental Physics with the Euclid Satellite. <i>Living Reviews in Relativity</i> , 2013, 16, 6.	8.2	683
34	Origins of weak lensing systematics, and requirements on future instrumentation (or knowledge of) $T_j ETQq0 0 0 rgBT / Overlock 10 Tf 5$	1.6	153
35	Defining a weak lensing experiment in space. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 431, 3103-3126.	1.6	74
36	Dark matter astrometry: accuracy of subhalo positions for the measurement of self-interaction cross-sections. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 433, 1517-1528.	1.6	13

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37	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
38	A DETECTION OF WEAK-LENSING MAGNIFICATION USING GALAXY SIZES AND MAGNITUDES. <i>Astrophysical Journal Letters</i> , 2012, 744, L22.	3.0	64
39	THE CORRELATED FORMATION HISTORIES OF MASSIVE GALAXIES AND THEIR DARK MATTER HALOS. <i>Astrophysical Journal Letters</i> , 2012, 755, L5.	3.0	33
40	COSMOS: STOCHASTIC BIAS FROM MEASUREMENTS OF WEAK LENSING AND GALAXY CLUSTERING. <i>Astrophysical Journal</i> , 2012, 750, 37.	1.6	45
41	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 $z = 1$. <i>Astrophysical Journal</i> , 2012, 744, 159.	1.6	437
42	WEAK LENSING MEASUREMENT OF GALAXY CLUSTERS IN THE CFHTLS-WIDE SURVEY. <i>Astrophysical Journal</i> , 2012, 748, 56.	1.6	60
43	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
44	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
45	GALAXIES IN X-RAY GROUPS. II. A WEAK LENSING STUDY OF HALO CENTERING. <i>Astrophysical Journal</i> , 2012, 757, 2.	1.6	118
46	Lossy Compression of Weak-Lensing Data. <i>Publications of the Astronomical Society of the Pacific</i> , 2011, 123, 996-1003.	1.0	0
47	Cluster bulleticity. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 413, 1709-1716.	1.6	31
48	A WEAK LENSING STUDY OF X-RAY GROUPS IN THE COSMOS SURVEY: FORM AND EVOLUTION OF THE MASS-LUMINOSITY RELATION. <i>Astrophysical Journal</i> , 2010, 709, 97-114.	1.6	227
49	Pixel-based correction for Charge Transfer Inefficiency in the <i>Hubble Space Telescope</i> Advanced Camera for Surveys. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010, 401, 371-384.	1.6	133
50	The dark matter of gravitational lensing. <i>Reports on Progress in Physics</i> , 2010, 73, 086901.	8.1	184
51	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
52	First lensing measurements of SZ-detected clusters. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2009, 399, L84-L88.	1.2	26
53	Handbook for the GREAT08 Challenge: An image analysis competition for cosmological lensing. <i>Annals of Applied Statistics</i> , 2009, 3, .	0.5	93
54	Color, 3D simulated images with shapelets. <i>Astroparticle Physics</i> , 2008, 30, 65-71.	1.9	6

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55	Combined analysis of weak lensing and X-ray blind surveys. Monthly Notices of the Royal Astronomical Society, 2008, 385, 695-707.	1.6	39
56	Weak-Lensing Ellipticities in a Strong-Lensing Regime. Astrophysical Journal, 2008, 673, L111-L114.	1.6	7
57	A Comparison of Weak Lensing Measurements from Ground- and Space-Based Facilities. Astrophysical Journal, 2008, 684, 34-45.	1.6	12
58	First Catalog of Strong Lens Candidates in the COSMOS Field. Astrophysical Journal, Supplement Series, 2008, 176, 19-38.	3.0	101
59	Revealing the Properties of Dark Matter in the Merging Cluster MACS J0025.4~1222. Astrophysical Journal, 2008, 687, 959-967.	1.6	228
60	Gravitational Shear, Flexion, and Strong Lensing in Abell 1689. Astrophysical Journal, 2007, 666, 51-63.	1.6	59
61	COSMOS: Three-dimensional Weak Lensing and the Growth of Structure. Astrophysical Journal, Supplement Series, 2007, 172, 239-253.	3.0	212
62	Pixelation Effects in Weak Lensing. Publications of the Astronomical Society of the Pacific, 2007, 119, 1295-1307.	1.0	9
63	Weak Gravitational Lensing with COSMOS: Galaxy Selection and Shape Measurements. Astrophysical Journal, Supplement Series, 2007, 172, 219-238.	3.0	325
64	Dark matter maps reveal cosmic scaffolding. Nature, 2007, 445, 286-290.	13.7	302
65	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
66	The Shear Testing Programme " I. Weak lensing analysis of simulated ground-based observations. Monthly Notices of the Royal Astronomical Society, 2006, 368, 1323-1339.	1.6	389
67	An enlarged cosmic shear survey with the William Herschel Telescope. Monthly Notices of the Royal Astronomical Society, 2005, 359, 1277-1286.	1.6	53
68	Image simulation with shapelets. Monthly Notices of the Royal Astronomical Society, 2004, 348, 214-226.	1.6	42
69	Weak Lensing from Space. II. Dark Matter Mapping. Astronomical Journal, 2004, 127, 3089-3101.	1.9	45
70	Weak Lensing from Space. III. Cosmological Parameters. Astronomical Journal, 2004, 127, 3102-3114.	1.9	73
71	Weak gravitational shear and flexion with polar shapelets. Monthly Notices of the Royal Astronomical Society, 0, 380, 229-245.	1.6	58
72	Results of the GREAT08 Challenge "...: an image analysis competition for cosmological lensing. Monthly Notices of the Royal Astronomical Society, 0, , no-no.	1.6	47