

Rachel Mandelbaum

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157
papers

22,147
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63
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148
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168
ext. papers

24,686
ext. citations

5
avg. IF

6.3
L-index

#	Paper	IF	Citations
157	THE SEVENTH DATA RELEASE OF THE SLOAN DIGITAL SKY SURVEY. <i>Astrophysical Journal, Supplement Series</i> , 2009 , 182, 543-558	8	3780
156	SDSS-III: MASSIVE SPECTROSCOPIC SURVEYS OF THE DISTANT UNIVERSE, THE MILKY WAY, AND EXTRA-SOLAR PLANETARY SYSTEMS. <i>Astronomical Journal</i> , 2011 , 142, 72	4.9	1438
155	THE BARYON OSCILLATION SPECTROSCOPIC SURVEY OF SDSS-III. <i>Astronomical Journal</i> , 2013 , 145, 10	4.9	1280
154	The Sixth Data Release of the Sloan Digital Sky Survey. <i>Astrophysical Journal, Supplement Series</i> , 2008 , 175, 297-313	8	1130
153	THE EIGHTH DATA RELEASE OF THE SLOAN DIGITAL SKY SURVEY: FIRST DATA FROM SDSS-III. <i>Astrophysical Journal, Supplement Series</i> , 2011 , 193, 29	8	1063
152	THE NINTH DATA RELEASE OF THE SLOAN DIGITAL SKY SURVEY: FIRST SPECTROSCOPIC DATA FROM THE SDSS-III BARYON OSCILLATION SPECTROSCOPIC SURVEY. <i>Astrophysical Journal, Supplement Series</i> , 2012 , 203, 21	8	1029
151	The Fourth Data Release of the Sloan Digital Sky Survey. <i>Astrophysical Journal, Supplement Series</i> , 2006 , 162, 38-48	8	909
150	LSST: From Science Drivers to Reference Design and Anticipated Data Products. <i>Astrophysical Journal</i> , 2019 , 873, 111	4.7	814
149	The clustering of galaxies in the SDSS-III Baryon Oscillation Spectroscopic Survey: baryon acoustic oscillations in the Data Release 9 spectroscopic galaxy sample. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012 , 427, 3435-3467	4.3	670
148	The Fifth Data Release of the Sloan Digital Sky Survey. <i>Astrophysical Journal, Supplement Series</i> , 2007 , 172, 634-644	8	590
147	Galaxy halo masses and satellite fractions from galaxy-galaxy lensing in the Sloan Digital Sky Survey: stellar mass, luminosity, morphology and environment dependencies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2006 , 368, 715-731	4.3	544
146	The Hyper Suprime-Cam SSP Survey: Overview and survey design. <i>Publication of the Astronomical Society of Japan</i> , 2018 , 70,	3.2	315
145	The Shear Testing Programme 2: Factors affecting high-precision weak-lensing analyses. <i>Monthly Notices of the Royal Astronomical Society</i> , 2007 , 376, 13-38	4.3	305
144	The Hyper Suprime-Cam software pipeline. <i>Publication of the Astronomical Society of Japan</i> , 2018 , 70,	3.2	234
143	Cosmology from cosmic shear power spectra with Subaru Hyper Suprime-Cam first-year data. <i>Publication of the Astronomical Society of Japan</i> , 2019 , 71,	3.2	231
142	Confirmation of general relativity on large scales from weak lensing and galaxy velocities. <i>Nature</i> , 2010 , 464, 256-8	50.4	225
141	Systematic errors in weak lensing: application to SDSS galaxy-galaxy weak lensing. <i>Monthly Notices of the Royal Astronomical Society</i> , 2005 , 361, 1287-1322	4.3	218

140	Cosmological parameter constraints from galaxy-galaxy lensing and galaxy clustering with the SDSS DR7. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013 , 432, 1544-1575	4.3	203
139	First data release of the Hyper Suprime-Cam Subaru Strategic Program. <i>Publication of the Astronomical Society of Japan</i> , 2018 , 70,	3.2	188
138	Density profiles of galaxy groups and clusters from SDSS galaxy-galaxy weak lensing. <i>Monthly Notices of the Royal Astronomical Society</i> , 2006 , 372, 758-776	4.3	179
137	Detection of large-scale intrinsic ellipticity--density correlation from the Sloan Digital Sky Survey and implications for weak lensing surveys. <i>Monthly Notices of the Royal Astronomical Society</i> , 2006 , 367, 611-626	4.3	177
136	Intrinsic galaxy alignments from the 2SLAQ and SDSS surveys: luminosity and redshift scalings and implications for weak lensing surveys. <i>Monthly Notices of the Royal Astronomical Society</i> , 2007 , 381, 1197-1218	4.3	171
135	GalSim: The modular galaxy image simulation toolkit. <i>Astronomy and Computing</i> , 2015 , 10, 121-150	2.4	170
134	Constraints on intrinsic alignment contamination of weak lensing surveys using the MegaZ-LRG sample. <i>Astronomy and Astrophysics</i> , 2011 , 527, A26	5.1	166
133	A halo mass-concentration relation from weak lensing. <i>Journal of Cosmology and Astroparticle Physics</i> , 2008 , 2008, 006	6.4	158
132	Galaxy Alignments: An Overview. <i>Space Science Reviews</i> , 2015 , 193, 1-65	7.5	149
131	THE SDSS-III BARYON OSCILLATION SPECTROSCOPIC SURVEY: THE QUASAR LUMINOSITY FUNCTION FROM DATA RELEASE NINE. <i>Astrophysical Journal</i> , 2013 , 773, 14	4.7	143
130	Weak Lensing for Precision Cosmology. <i>Annual Review of Astronomy and Astrophysics</i> , 2018 , 56, 393-433	31.7	128
129	SDSS galaxy bias from halo mass-bias relation and its cosmological implications. <i>Physical Review D</i> , 2005 , 71,	4.9	127
128	Galaxy-galaxy weak lensing in the Sloan Digital Sky Survey: intrinsic alignments and shear calibration errors. <i>Monthly Notices of the Royal Astronomical Society</i> , 2004 , 353, 529-549	4.3	125
127	The first-year shear catalog of the Subaru Hyper Suprime-Cam Subaru Strategic Program Survey. <i>Publication of the Astronomical Society of Japan</i> , 2018 , 70,	3.2	124
126	Mapping stellar content to dark matter haloes using galaxy clustering and galaxy-galaxy lensing in the SDSS DR7. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015 , 454, 1161-1191	4.3	117
125	Intrinsic alignments of SDSS-III BOSS LOWZ sample galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015 , 450, 2195-2216	4.3	113
124	Precision photometric redshift calibration for galaxy-galaxy weak lensing. <i>Monthly Notices of the Royal Astronomical Society</i> , 2008 , 386, 781-806	4.3	113
123	THE THIRD GRAVITATIONAL LENSING ACCURACY TESTING (GREAT3) CHALLENGE HANDBOOK. <i>Astrophysical Journal, Supplement Series</i> , 2014 , 212, 5	8	109

122	Strong bimodality in the host halo mass of central galaxies from galaxy-galaxy lensing. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016 , 457, 3200-3218	4.3	105
121	The WiggleZ Dark Energy Survey: direct constraints on blue galaxy intrinsic alignments at intermediate redshifts. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011 , 410, 844-859	4.3	104
120	Optical-to-virial velocity ratios of local disc galaxies from combined kinematics and galaxy-galaxy lensing. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012 , 425, 2610-2640	4.3	103
119	CROSS-CORRELATION WEAK LENSING OF SDSS GALAXY CLUSTERS. I. MEASUREMENTS. <i>Astrophysical Journal</i> , 2009 , 703, 2217-2231	4.7	103
118	DETECTION OF THE SPLASHBACK RADIUS AND HALO ASSEMBLY BIAS OF MASSIVE GALAXY CLUSTERS. <i>Astrophysical Journal</i> , 2016 , 825, 39	4.7	103
117	Lensing is low: cosmology, galaxy formation or new physics?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017 , 467, 3024-3047	4.3	101
116	Weak lensing measurement of the mass-richness relation of SDSS redMaPPer clusters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017 , 466, 3103-3118	4.3	100
115	THE WEAK LENSING SIGNAL AND THE CLUSTERING OF BOSS GALAXIES. II. ASTROPHYSICAL AND COSMOLOGICAL CONSTRAINTS. <i>Astrophysical Journal</i> , 2015 , 806, 2	4.7	97
114	GREAT3 results II. Systematic errors in shear estimation and the impact of real galaxy morphology. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015 , 450, 2963-3007	4.3	97
113	Ellipticity of dark matter haloes with galaxy-galaxy weak lensing. <i>Monthly Notices of the Royal Astronomical Society</i> , 2006 , 370, 1008-1024	4.3	94
112	Galaxy-galaxy lensing: dissipationless simulations versus the halo model. <i>Monthly Notices of the Royal Astronomical Society</i> , 2005 , 362, 1451-1462	4.3	94
111	Galaxy Alignments: Observations and Impact on Cosmology. <i>Space Science Reviews</i> , 2015 , 193, 139-211	7.5	90
110	Cluster density profiles as a test of modified gravity. <i>Physical Review D</i> , 2012 , 85,	4.9	88
109	Mapping stellar content to dark matter haloes III. Halo mass is the main driver of galaxy quenching. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016 , 457, 4360-4383	4.3	86
108	Galaxy Alignments: Theory, Modelling & Simulations. <i>Space Science Reviews</i> , 2015 , 193, 67-136	7.5	85
107	Algorithm for the direct reconstruction of the dark matter correlation function from weak lensing and galaxy clustering. <i>Physical Review D</i> , 2010 , 81,	4.9	85
106	Evidence of Halo Assembly Bias in Massive Clusters. <i>Physical Review Letters</i> , 2016 , 116, 041301	7.4	84
105	Handbook for the GREAT08 Challenge: An image analysis competition for cosmological lensing. <i>Annals of Applied Statistics</i> , 2009 , 3,	2.1	84

104	Calibrated Tully-Fisher relations for improved estimates of disc rotation velocities. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011 , 417, 2347-2386	4.3	83
103	Cosmological constraints from cosmic shear two-point correlation functions with HSC survey first-year data. <i>Publication of the Astronomical Society of Japan</i> , 2020 , 72,	3.2	80
102	CMU DeepLens: deep learning for automatic image-based galaxy-galaxy strong lens finding. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018 , 473, 3895-3906	4.3	78
101	ON DETECTING HALO ASSEMBLY BIAS WITH GALAXY POPULATIONS. <i>Astrophysical Journal</i> , 2016 , 819, 119	4.7	78
100	Growth of cosmic structure: Probing dark energy beyond expansion. <i>Astroparticle Physics</i> , 2015 , 63, 23-41.4	4.4	76
99	Halo masses for optically selected and for radio-loud AGN from clustering and galaxy-galaxy lensing. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009 , 393, 377-392	4.3	75
98	THE WEAK LENSING SIGNAL AND THE CLUSTERING OF BOSS GALAXIES. I. MEASUREMENTS. <i>Astrophysical Journal</i> , 2015 , 806, 1	4.7	68
97	Galaxy shapes and intrinsic alignments in the MassiveBlack-II simulation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014 , 441, 470-485	4.3	68
96	On the level of cluster assembly bias in SDSS. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017 , 470, 551-560	4.3	65
95	Galaxy-galaxy lensing estimators and their covariance properties. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017 , 471, 3827-3844	4.3	64
94	Characterization and photometric performance of the Hyper Suprime-Cam Software Pipeline. <i>Publication of the Astronomical Society of Japan</i> , 2018 , 70,	3.2	63
93	Separating intrinsic alignment and galaxy-galaxy lensing. <i>Journal of Cosmology and Astroparticle Physics</i> , 2012 , 2012, 041-041	6.4	63
92	Detecting effects of filaments on galaxy properties in the Sloan Digital Sky Survey III. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017 , 466, 1880-1893	4.3	62
91	Precision simulation of ground-based lensing data using observations from space. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012 , 420, 1518-1540	4.3	62
90	The morphology of galaxies in the Baryon Oscillation Spectroscopic Survey. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011 , 418, 1055-1070	4.3	58
89	Weak lensing shear calibration with simulations of the HSC survey. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018 , 481, 3170-3195	4.3	58
88	Galaxy And Mass Assembly (GAMA): the halo mass of galaxy groups from maximum-likelihood weak lensing. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015 , 446, 1356-1379	4.3	57
87	Intrinsic alignments of galaxies in the MassiveBlack-II simulation: analysis of two-point statistics. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015 , 448, 3522-3544	4.3	57

86	WEIGHING Λ WITH A PRECISION SCALE: HUBBLE SPACE TELESCOPE WEAK-LENSING ANALYSIS OF THE MERGING GALAXY CLUSTER ACT-CL J010209-15 ATz= 0.87. <i>Astrophysical Journal</i> , 2014 , 785, 20	4.7	55
85	Testing adiabatic contraction with Sloan Digital Sky Survey elliptical galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010 , 408, 1463-1475	4.3	52
84	Luminous red galaxies in clusters: central occupation, spatial distributions and miscentring. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015 , 452, 998-1013	4.3	51
83	Weak-lensing Mass Calibration of ACTPol Sunyaev-Zeldovich Clusters with the Hyper Suprime-Cam Survey. <i>Astrophysical Journal</i> , 2019 , 875, 63	4.7	50
82	Spectroscopic needs for imaging dark energy experiments. <i>Astroparticle Physics</i> , 2015 , 63, 81-100	2.4	50
81	Precision cosmology from the Lyman Forest: power spectrum and bispectrum. <i>Monthly Notices of the Royal Astronomical Society</i> , 2003 , 344, 776-788	4.3	47
80	Modelling baryonic physics in future weak lensing surveys. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019 , 488, 1652-1678	4.3	46
79	Where are the Luminous Red Galaxies (LRGs)? Using correlation measurements and lensing to relate LRGs to dark matter haloes. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013 , 435, 2345-2370	4.3	46
78	PHOTOMETRIC REDSHIFT PROBABILITY DISTRIBUTIONS FOR GALAXIES IN THE SDSS DR8. <i>Astrophysical Journal, Supplement Series</i> , 2012 , 201, 32	8	46
77	Seeing in the dark III. Cosmic shear in the Sloan Digital Sky Survey. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014 , 440, 1322-1344	4.3	42
76	Galaxy shapes and alignments in the MassiveBlack-II hydrodynamic and dark matter-only simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015 , 453, 469-482	4.3	40
75	Improved optical mass tracer for galaxy clusters calibrated using weak lensing measurements. <i>Monthly Notices of the Royal Astronomical Society</i> , 2008 , 390, 1157-1169	4.3	40
74	The mass-richness relation of optically selected clusters from weak gravitational lensing and abundance with Subaru HSC first-year data. <i>Publication of the Astronomical Society of Japan</i> , 2019 , 71,	3.2	38
73	Cross-correlating Planck CMB lensing with SDSS: lensing-lensing and galaxy-lensing cross-correlations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017 , 464, 2120-2138	4.3	38
72	Modelling projection effects in optically selected cluster catalogues. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019 , 482, 490-505	4.3	36
71	Intrinsic alignments of disc and elliptical galaxies in the MassiveBlack-II and Illustris simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016 , 462, 2668-2680	4.3	35
70	Results of the GREAT08 Challenge?: an image analysis competition for cosmological lensing. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010 , no-no	4.3	35
69	Gravitational Lensing Accuracy Testing 2010 (GREAT10) Challenge Handbook. <i>Annals of Applied Statistics</i> , 2011 , 5,	2.1	35

68	CosmoDC2: A Synthetic Sky Catalog for Dark Energy Science with LSST. <i>Astrophysical Journal, Supplement Series</i> , 2019 , 245, 26	8	33
67	Scientific Synergy between LSST and Euclid. <i>Astrophysical Journal, Supplement Series</i> , 2017 , 233, 21	8	32
66	Galaxy And Mass Assembly (GAMA): galaxy radial alignments in GAMA groups. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013 , 433, 2727-2738	4.3	32
65	Galaxy density profiles and shapes - II. Selection biases in strong lensing surveys. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009 , 398, 635-657	4.3	32
64	Intrinsic alignments of group and cluster galaxies in photometric surveys. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014 , 445, 726-748	4.3	31
63	A HIGHLY ELONGATED PROMINENT LENS AT $z = 0.87$: FIRST STRONG-LENSING ANALYSIS OF EL GORDO. <i>Astrophysical Journal Letters</i> , 2013 , 770, L15	7.9	31
62	Intrinsic alignments of BOSS LOWZ galaxies III. Impact of shape measurement methods. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016 , 457, 2301-2317	4.3	30
61	Galaxy density profiles and shapes - I. Simulation pipeline for lensing by realistic galaxy models. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009 , 398, 607-634	4.3	29
60	Investigating galaxy-filament alignments in hydrodynamic simulations using density ridges. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015 , 454, 3341-3350	4.3	28
59	A weak gravitational lensing recalibration of the scaling relations linking the gas properties of dark haloes to their mass. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016 , 456, 2301-2320	4.3	27
58	Intrinsic alignments in redMaPPer clusters II. Central galaxy alignments and angular segregation of satellites. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016 , 463, 222-244	4.3	26
57	A unified analysis of four cosmic shear surveys. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019 , 482, 3696-3717	4.3	26
56	Mapping stellar content to dark matter haloes III. Environmental dependence and conformity of galaxy colours. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018 , 476, 1637-1653	4.3	24
55	Photometric redshift requirements for lens galaxies in galaxy-galaxy lensing analyses. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012 , no-no	4.3	24
54	Cosmic web dependence of galaxy clustering and quenching in SDSS. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019 , 483, 4501-4517	4.3	23
53	Detection of intrinsic cluster alignments to $100 h^{-1}$ Mpc in the Sloan Digital Sky Survey. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012 , 423, 856-861	4.3	23
52	Source selection for cluster weak lensing measurements in the Hyper Suprime-Cam survey. <i>Publication of the Astronomical Society of Japan</i> , 2018 , 70,	3.2	23
51	Testing gravity on large scales by combining weak lensing with galaxy clustering using CFHTLenS and BOSS CMASS. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017 , 465, 4853-4865	4.3	22

50	Two- and three-dimensional wide-field weak lensing mass maps from the Hyper Suprime-Cam Subaru Strategic Program S16A data. <i>Publication of the Astronomical Society of Japan</i> , 2018 , 70,	3.2	22
49	Cosmological constraints from galaxy lensing cross-correlations using BOSS galaxies with SDSS and CMB lensing. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020 , 491, 51-68	4.3	21
48	Tomographic galaxy clustering with the Subaru Hyper Suprime-Cam first year public data release. <i>Journal of Cosmology and Astroparticle Physics</i> , 2020 , 2020, 044-044	6.4	20
47	Probing gravity with a joint analysis of galaxy and CMB lensing and SDSS spectroscopy. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019 , 482, 785-806	4.3	19
46	A robust lower limit on the amplitude of matter fluctuations in the universe from cluster abundance and weak lensing. <i>Journal of Cosmology and Astroparticle Physics</i> , 2007 , 2007, 024-024	6.4	19
45	Subaru weak lensing measurement of a $z = 0.81$ cluster discovered by the Atacama Cosmology Telescope Survey?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013 , 429, 3627-3644	4.3	18
44	Detecting galaxy-filament alignments in the Sloan Digital Sky Survey III. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019 , 485, 2492-2504	4.3	17
43	Intrinsic alignment in redMaPPer clusters II. Radial alignment of satellites towards cluster centres. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018 , 474, 4772-4794	4.3	17
42	The Impact of Interpixel Capacitance in CMOS Detectors on PSF Shapes and Implications for WFIRST. <i>Publications of the Astronomical Society of the Pacific</i> , 2016 , 128, 095001	5	17
41	Background sky obscuration by cluster galaxies as a source of systematic error for weak lensing. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015 , 449, 1259-1269	4.3	16
40	A detection of the environmental dependence of the sizes and stellar haloes of massive central galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018 , 480, 521-537	4.3	16
39	Detection of spatial correlations of Fundamental Plane residuals, and cosmological implications. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015 , 454, 478-488	4.3	15
38	DESCQA: An Automated Validation Framework for Synthetic Sky Catalogs. <i>Astrophysical Journal, Supplement Series</i> , 2018 , 234, 36	8	13
37	Weak lensing calibration of mass bias in the REFLEX+BCS X-ray galaxy cluster catalogue. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017 , 466, 3663-3673	4.3	13
36	First results on the cluster galaxy population from the Subaru Hyper Suprime-Cam survey. II. Faint end color-magnitude diagrams and radial profiles of red and blue galaxies at $0.1 \leq z < 0.2$. <i>Publication of the Astronomical Society of Japan</i> , 2018 , 70,	3.2	13
35	The Effect of Detector Nonlinearity on WFIRST PSF Profiles for Weak Gravitational Lensing Measurements. <i>Publications of the Astronomical Society of the Pacific</i> , 2016 , 128, 104001	5	12
34	Testing redMaPPer centring probabilities using galaxy clustering and galaxy-galaxy lensing. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018 , 480, 2689-2697	4.3	12
33	Seeing in the dark II. Multi-epoch alchemy. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014 , 440, 1296-1321	4.3	12

32	GalaxyGalaxy lensing in HSC: Validation tests and the impact of heterogeneous spectroscopic training sets. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019 , 490, 5658-5677	4-3	12
31	Precision cluster mass determination from weak lensing. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010 , no-no	4-3	11
30	Dark energy survey year 1 results: Constraining baryonic physics in the Universe. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021 , 502, 6010-6031	4-3	11
29	The impact of cosmic variance on simulating weak lensing surveys. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015 , 449, 3597-3612	4-3	9
28	Instrumental systematics and weak gravitational lensing. <i>Journal of Instrumentation</i> , 2015 , 10, C05017-C05017	9	
27	Optimization of the Observing Cadence for the Rubin Observatory Legacy Survey of Space and Time: A Pioneering Process of Community-focused Experimental Design. <i>Astrophysical Journal, Supplement Series</i> , 2022 , 258, 1	8	9
26	Non-Gaussianity in the weak lensing correlation function likelihood ¶ Implications for cosmological parameter biases. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020 , 499, 2977-2993	4-3	8
25	The evolution of galaxy intrinsic alignments in the MassiveBlackII universe. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020 , 491, 4116-4130	4-3	8
24	The LSST DESC DC2 Simulated Sky Survey. <i>Astrophysical Journal, Supplement Series</i> , 2021 , 253, 31	8	8
23	Testing the impact of satellite anisotropy on large- and small-scale intrinsic alignments using hydrodynamical simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020 , 491, 5330-5350	4-3	6
22	The impact of correlated noise on galaxy shape estimation for weak lensing. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016 , 457, 3522-3534	4-3	6
21	A synthetic Roman Space Telescope High-Latitude Imaging Survey: simulation suite and the impact of wavefront errors on weak gravitational lensing. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021 , 501, 2044-2070	4-3	6
20	The LSST DESC data challenge 1: generation and analysis of synthetic images for next-generation surveys. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020 , 497, 210-228	4-3	5
19	Estimating redshift distributions using hierarchical logistic Gaussian processes. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020 , 491, 4768-4782	4-3	5
18	Measuring the scale dependence of intrinsic alignments using multiple shear estimates. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018 , 479, 1412-1426	4-3	5
17	Downsizing of star formation measured from the clustered infrared background correlated with quasars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018 , 480, 149-181	4-3	5
16	Multiwavelength study of X-ray luminous clusters in the Hyper Suprime-Cam Subaru Strategic Program S16A field ¶ <i>Publication of the Astronomical Society of Japan</i> , 2018 , 70,	3-2	5
15	Calibrating long-period variables as standard candles with machine learning. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019 , 484, 409-421	4-3	4

14	Galaxy Halo Masses from Weak Gravitational Lensing. <i>Proceedings of the International Astronomical Union</i> , 2014 , 10, 86-95	0.1	4
13	The GREAT3 challenge. <i>Journal of Instrumentation</i> , 2014 , 9, C04031-C04031	1	2
12	Large-scale structure and the intrinsic alignment of galaxies. <i>Proceedings of the International Astronomical Union</i> , 2014 , 11, 452-455	0.1	2
11	Validation of PSF models for HST and other space-based observations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020 , 496, 5017-5038	4.3	2
10	Cosmology with the Roman Space Telescope: synergies with the Rubin Observatory Legacy Survey of Space and Time. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021 , 507, 1514-1527	4.3	2
9	Deep generative models for galaxy image simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021 , 504, 5543-5555	4.3	2
8	Advances in constraining intrinsic alignment models with hydrodynamic simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021 , 508, 637-664	4.3	2
7	Optimizing LSST observing strategy for weak lensing systematics. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020 , 499, 1140-1153	4.3	1
6	The impact of light polarization effects on weak lensing systematics. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020 , 496, 532-539	4.3	1
5	Probabilistic model for dynamic galaxy decomposition. <i>Monthly Notices of the Royal Astronomical Society</i> ,	4.3	1
4	A Composite Likelihood Approach for Inference under Photometric Redshift Uncertainty. <i>Monthly Notices of the Royal Astronomical Society</i> ,	4.3	1
3	The Impact of Observing Strategy on Cosmological Constraints with LSST. <i>Astrophysical Journal, Supplement Series</i> , 2022 , 259, 58	8	1
2	Impact of image persistence in the Roman Space Telescope High-Latitude Survey. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022 , 512, 3312-3318	4.3	0
1	Impact of point spread function higher moments error on weak gravitational lensing. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021 , 510, 1978-1993	4.3	0