

Michael J Hudson

List of Publications by Year in descending order

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113
papers

10,359
citations

36303

51
h-index

32842

100
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113
all docs

113
docs citations

113
times ranked

5872
citing authors

#	ARTICLE	IF	CITATIONS
1	SUPERNOVA CONSTRAINTS AND SYSTEMATIC UNCERTAINTIES FROM THE FIRST THREE YEARS OF THE SUPERNOVA LEGACY SURVEY. <i>Astrophysical Journal, Supplement Series</i> , 2011, 192, 1.	7.7	672
2	CFHTLenS: the Canadaâ€“Franceâ€“Hawaii Telescope Lensing Survey. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 427, 146-166.	4.4	596
3	CFHTLenS tomographic weak lensing cosmological parameter constraints: Mitigating the impact of intrinsic galaxy alignments. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 432, 2433-2453.	4.4	506
4	Very weak lensing in the CFHTLS wide: cosmology from cosmic shear in the linear regime. <i>Astronomy and Astrophysics</i> , 2008, 479, 9-25.	5.1	358
5	Bayesian galaxy shape measurement for weak lensing surveys â€“ III. Application to the Canadaâ€“Franceâ€“Hawaii Telescope Lensing Survey. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 429, 2858-2880.	4.4	347
6	CFHTLenS: the Canadaâ€“Franceâ€“Hawaii Telescope Lensing Survey â€“ imaging data and catalogue products. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 433, 2545-2563.	4.4	332
7	CFHTLenS: combined probe cosmological model comparison using 2D weak gravitational lensing. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 430, 2200-2220.	4.4	303
8	COSMOLOGICAL CONSTRAINTS FROM MEASUREMENTS OF TYPE Ia SUPERNOVAE DISCOVERED DURING THE FIRST 1.5 yr OF THE Pan-STARRS1 SURVEY. <i>Astrophysical Journal</i> , 2014, 795, 44.	4.5	262
9	Consistently large cosmic flows on scales of $<i>100\hat{f}h</i>^{\hat{a}}1</sup></i>: a challenge for the standard \hat{b}CDM cosmology. Monthly Notices of the Royal Astronomical Society, 2009, 392, 743-756.$	4.4	256
10	CFHTLenS: improving the quality of photometric redshifts with precision photometryâ€“... <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 421, 2355-2367.	4.4	248
11	First Cosmic Shear Results from the Canadaâ€“Franceâ€“Hawaii Telescope Wide Synoptic Legacy Survey. <i>Astrophysical Journal</i> , 2006, 647, 116-127.	4.5	230
12	NOAO Fundamental Plane Survey. II. Age and Metallicity along the Red Sequence from Lineâ€“Strength Data. <i>Astrophysical Journal</i> , 2005, 632, 137-156.	4.5	224
13	Cosmic flows in the nearby universe from Type Ia supernovae. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 420, 447-454.	4.4	200
14	The 2M++ galaxy redshift catalogue. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 416, 2840-2856.	4.4	169
15	Galaxy And Mass Assembly (GAMA): spectroscopic analysis. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 430, 2047-2066.	4.4	163
16	Cosmological parameters from the comparison of peculiar velocities with predictions from the 2M++ density field. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 450, 317-332.	4.4	161
17	CFHTLenS: the relation between galaxy dark matter haloes and baryons from weak gravitational lensing. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 437, 2111-2136.	4.4	157
18	Streaming motions of galaxy clusters within 12 000 km s ⁻¹ – I. New spectroscopic data. <i>Monthly Notices of the Royal Astronomical Society</i> , 2000, 313, 469-490.	4.4	151

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19	CFHTLenS: testing the laws of gravity with tomographic weak lensing and redshift-space distortions. Monthly Notices of the Royal Astronomical Society, 2013, 429, 2249-2263.	4.4	149
20	Ultraviolet tails and trails in cluster galaxies: a sample of candidate gaseous stripping events in Coma. Monthly Notices of the Royal Astronomical Society, 2010, 408, 1417-1432.	4.4	146
21	Cosmic flows on 100 h ⁻¹ Mpc scales: standardized minimum variance bulk flow, shear and octupole moments. Monthly Notices of the Royal Astronomical Society, 0, 407, 2328-2338.	4.4	142
22	The Mass-to-Light Function of Virialized Systems and the Relationship between Their Optical and X-Ray Properties. Astrophysical Journal, 2002, 569, 101-111.	4.5	141
23	On the dependence of spectroscopic indices of early-type galaxies on age, metallicity and velocity dispersion. Monthly Notices of the Royal Astronomical Society, 2001, 323, 615-629.	4.4	140
24	THE PHASE SPACE AND STELLAR POPULATIONS OF CLUSTER GALAXIES AT $z \approx 1$: SIMULTANEOUS CONSTRAINTS ON THE LOCATION AND TIMESCALE OF SATELLITE QUENCHING. Astrophysical Journal, 2014, 796, 65.	4.5	140
25	CFHTLenS: cosmological constraints from a combination of cosmic shear two-point and three-point correlations. Monthly Notices of the Royal Astronomical Society, 2014, 441, 2725-2743.	4.4	139
26	Cosmic shear analysis with CFHTLS deep data. Astronomy and Astrophysics, 2006, 452, 51-61.	5.1	136
27	Streaming motions of galaxy clusters within 12 000 km s ⁻¹ . The peculiar velocity field. Monthly Notices of the Royal Astronomical Society, 2004, 352, 61-75.	4.4	131
28	SYSTEMATIC UNCERTAINTIES ASSOCIATED WITH THE COSMOLOGICAL ANALYSIS OF THE FIRST PAN-STARRS1 TYPE Ia SUPERNOVA SAMPLE. Astrophysical Journal, 2014, 795, 45.	4.5	131
29	CFHTLenS: co-evolution of galaxies and their dark matter haloes. Monthly Notices of the Royal Astronomical Society, 2015, 447, 298-314.	4.4	130
30	Galaxy-Galaxy Lensing in the Hubble Deep Field: The Halo Tully-Fisher Relation at Intermediate Redshift. Astrophysical Journal, 1998, 503, 531-542.	4.5	129
31	NOAO Fundamental Plane Survey. I. Survey Design, Redshifts, and Velocity Dispersion Data. Astronomical Journal, 2004, 128, 1558-1569.	4.7	124
32	THE GROWTH RATE OF COSMIC STRUCTURE FROM PECULIAR VELOCITIES AT LOW AND HIGH REDSHIFTS. Astrophysical Journal Letters, 2012, 751, L30.	8.3	122
33	Disentangling satellite galaxy populations using orbit tracking in simulations. Monthly Notices of the Royal Astronomical Society, 2013, 431, 2307-2316.	4.4	119
34	CFHTLenS tomographic weak lensing: quantifying accurate redshift distributions. Monthly Notices of the Royal Astronomical Society, 2013, 431, 1547-1564.	4.4	111
35	DARK MATTER HALOS IN GALAXIES AND GLOBULAR CLUSTER POPULATIONS. Astrophysical Journal Letters, 2014, 787, L5.	8.3	105
36	3D cosmic shear: cosmology from CFHTLenS. Monthly Notices of the Royal Astronomical Society, 2014, 442, 1326-1349.	4.4	105

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37	THE HST/ACS COMA CLUSTER SURVEY. IV. INTERGALACTIC GLOBULAR CLUSTERS AND THE MASSIVE GLOBULAR CLUSTER SYSTEM AT THE CORE OF THE COMA GALAXY CLUSTER. <i>Astrophysical Journal</i> , 2011, 730, 23.	4.5	94
38	A Large-scale Bulk Flow of Galaxy Clusters. <i>Astrophysical Journal</i> , 1999, 512, L79-L82.	4.5	94
39	The Masses and Shapes of Dark Matter Halos from Galaxy-Galaxy Lensing in the CFHT Legacy Survey. <i>Astrophysical Journal</i> , 2007, 669, 21-31.	4.5	86
40	Line emission in the brightest cluster galaxies of the NOAO Fundamental Plane and Sloan Digital Sky Surveys. <i>Monthly Notices of the Royal Astronomical Society</i> , 2007, 379, 100-110.	4.4	84
41	A spectroscopic survey of dwarf galaxies in the Coma cluster: stellar populations, environment and downsizing. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009, 392, 1265-1294.	4.4	84
42	Environmental quenching and hierarchical cluster assembly: evidence from spectroscopic ages of red-sequence galaxies in Coma. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 419, 3167-3180.	4.4	83
43	DARK MATTER HALOS IN GALAXIES AND GLOBULAR CLUSTER POPULATIONS. II. METALLICITY AND MORPHOLOGY. <i>Astrophysical Journal</i> , 2015, 806, 36.	4.5	82
44	Satellite quenching time-scales in clusters from projected phase space measurements matched to simulated orbits. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 463, 3083-3095.	4.4	82
45	The Hubble Space Telescope Advanced Camera for Surveys Coma Cluster Survey. I. Survey Objectives and Design. <i>Astrophysical Journal, Supplement Series</i> , 2008, 176, 424-437.	7.7	79
46	A synthesis of data from fundamental plane and surface brightness fluctuation surveys. <i>Monthly Notices of the Royal Astronomical Society</i> , 2001, 327, 1004-1020.	4.4	77
47	Cosmological Parameters from the Comparison of the 2MASS Gravity Field with Peculiar Velocity Surveys. <i>Astrophysical Journal</i> , 2005, 635, 11-21.	4.5	71
48	The JCMT Nearby Galaxies Legacy Survey VIII. CO data and the LCO(3-2)-LFIR correlation in the SINGS sample. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 424, 3050-3080.	4.4	70
49	Early-type galaxy distances from the Fundamental Plane and surface brightness fluctuations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2002, 330, 443-457.	4.4	67
50	The SAMI Galaxy Survey: Quenching of Star Formation in Clusters I. Transition Galaxies. <i>Astrophysical Journal</i> , 2019, 873, 52.	4.5	63
51	The Canada-France Imaging Survey: First Results from the u-Band Component. <i>Astrophysical Journal</i> , 2017, 848, 128.	4.5	62
52	Quenching star formation in cluster galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 440, 1934-1949.	4.4	57
53	Cosmic flows in the nearby Universe: new peculiar velocities from SNe and cosmological constraints. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 498, 2703-2718.	4.4	57
54	Joint analysis of 6dFGS and SDSS peculiar velocities for the growth rate of cosmic structure and tests of gravity. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 497, 1275-1293.	4.4	55

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55	The NOAO Fundamental Plane Survey - III. Variations in the stellar populations of red-sequence galaxies from the cluster core to the virial radius. <i>Monthly Notices of the Royal Astronomical Society</i> , 2006, 369, 1419-1436.	4.4	54
56	The Peculiar Velocities of Local Type Ia Supernovae and Their Impact on Cosmology. <i>Astrophysical Journal</i> , 2007, 661, L123-L126.	4.5	50
57	Mass-to-Light Ratios of Galaxy Groups from Weak Lensing. <i>Astrophysical Journal</i> , 2005, 634, 806-812.	4.5	49
58	Dissecting the red sequence: the bulge and disc colours of early-type galaxies in the Coma cluster. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 440, 1690-1711.	4.4	47
59	Optical galaxies within Formula - IV. The peculiar velocity field. <i>Monthly Notices of the Royal Astronomical Society</i> , 1994, 266, 475-488.	4.4	46
60	Streaming motions of galaxy clusters within 12 000 km s ⁻¹ - III. A standardized catalogue of Fundamental Plane data. <i>Monthly Notices of the Royal Astronomical Society</i> , 2001, 327, 265-295.	4.4	46
61	Group-finding with photometric redshifts: the photo-z probability peaks algorithm. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 410, 13-26.	4.4	43
62	THE <i>HST</i> /ACS COMA CLUSTER SURVEY. II. DATA DESCRIPTION AND SOURCE CATALOGS. <i>Astrophysical Journal</i> , Supplement Series, 2010, 191, 143-159.	7.7	42
63	A comparison of local Type Ia supernovae with the IRASPSCz gravity field. <i>Monthly Notices of the Royal Astronomical Society</i> , 2004, 355, 1378-1382.	4.4	41
64	First measurement of the bulk flow of nearby galaxies using the cosmic microwave background. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 430, 1617-1635.	4.4	41
65	A deep AAOmega survey of low-luminosity galaxies in the Shapley supercluster: stellar population trends. <i>Monthly Notices of the Royal Astronomical Society</i> , 0, 381, 1035-1052.	4.4	39
66	CFHTLenS: the environmental dependence of galaxy halo masses from weak lensing. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 431, 1439-1452.	4.4	39
67	Ages and metallicities for quiescent galaxies in the Shapley supercluster: driving parameters of the stellar populations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009, 400, 1690-1705.	4.4	38
68	Colours of bulges and discs within galaxy clusters and the signature of disc fading on infall. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010, 409, 405-420.	4.4	36
69	Convolutional neural network identification of galaxy post-mergers in UNIONS using IllustrisTNG. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 504, 372-392.	4.4	36
70	Abundance ratios in red-sequence galaxies over a wide mass range: the α -planes TM for magnesium, calcium, carbon and nitrogen. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009, 398, 119-132.	4.4	34
71	The weak-lensing masses of filaments between luminous red galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 468, 2605-2613.	4.4	34
72	THE STAR FORMATION HISTORIES OF RED-SEQUENCE GALAXIES, MASS-TO-LIGHT RATIOS AND THE FUNDAMENTAL PLANE. <i>Astrophysical Journal</i> , 2009, 702, 1275-1296.	4.5	33

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73	Power spectrum estimation from peculiar velocity catalogues. Monthly Notices of the Royal Astronomical Society, 2012, 425, 1709-1717.	4.4	32
74	A homogeneous measurement of the delay between the onsets of gas stripping and star formation quenching in satellite galaxies of groups and clusters. Monthly Notices of the Royal Astronomical Society, 2021, 501, 5073-5095.	4.4	32
75	The correlation between the sizes of globular cluster systems and their host dark matter haloes. Monthly Notices of the Royal Astronomical Society, 2018, 477, 3869-3885.	4.4	31
76	Optical galaxies within 8000 km s ⁻¹ - II. The peculiar velocity of the Local Group. Monthly Notices of the Royal Astronomical Society, 1993, 265, 72-80.	4.4	29
77	Optical galaxies within Formula - III. Inhomogeneous Malmquist bias corrections and the Great Attractor. Monthly Notices of the Royal Astronomical Society, 1994, 266, 468-474.	4.4	28
78	CFHTLenS: a weak lensing shear analysis of the 3D-Matched-Filter galaxy clusters. Monthly Notices of the Royal Astronomical Society, 2015, 447, 1304-1318.	4.4	27
79	The Environmental Dependence of Brightest Cluster Galaxies: Implications for Large-scale Flows. Astrophysical Journal, 1997, 479, 621-631.	4.5	26
80	A slight excess of large-scale power from moments of the peculiar velocity field. Monthly Notices of the Royal Astronomical Society, 2011, 414, 621-626.	4.4	25
81	A large population of recently quenched red-sequence dwarf galaxies in the outskirts of the Coma cluster. Monthly Notices of the Royal Astronomical Society: Letters, 2008, 386, L96-L100.	3.3	24
82	CFHTLenS: higher order galaxy-galaxy mass correlations probed by galaxy-galaxy-galaxy lensing. Monthly Notices of the Royal Astronomical Society, 2013, 430, 2476-2498.	4.4	23
83	On the perturbation of the luminosity distance by peculiar motions. Monthly Notices of the Royal Astronomical Society, 2015, 450, 883-895.	4.4	22
84	CFHTLenS: weak lensing constraints on the ellipticity of galaxy-scale matter haloes and the galaxy-halo misalignment. Monthly Notices of the Royal Astronomical Society, 2015, 454, 1432-1452.	4.4	22
85	THE RADIO LUMINOSITY FUNCTION AND GALAXY EVOLUTION IN THE COMA CLUSTER. Astronomical Journal, 2009, 137, 4450-4467.	4.7	21
86	Peculiar-velocity cosmology with Types Ia and II supernovae. Monthly Notices of the Royal Astronomical Society, 2021, 505, 2349-2360.	4.4	20
87	Chemical Mapping of the Milky Way with The Canada-France Imaging Survey: A Non-parametric Metallicity-Distance Decomposition of the Galaxy. Astrophysical Journal, 2017, 848, 129.	4.5	19
88	The Optical Luminosity Function of Virialized Systems. Astrophysical Journal, 2002, 569, 91-100.	4.5	17
89	Star formation characteristics of CNN-identified post-mergers in the Ultraviolet Near Infrared Optical Northern Survey (UNIONS). Monthly Notices of the Royal Astronomical Society, 2022, 514, 3294-3307.	4.4	17
90	A Test for Large-scale Systematic Errors in Maps of Galactic Reddening. Publications of the Astronomical Society of the Pacific, 1999, 111, 57-62.	3.1	16

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91	Near ultraviolet–infrared colours of red-sequence galaxies in local clusters. Monthly Notices of the Royal Astronomical Society, 2008, 385, 2097-2106.	4.4	15
92	Beyond Λ CDM exponential disc morphologies in the Coma Cluster. Monthly Notices of the Royal Astronomical Society, 2015, 453, 3730-3754.	4.4	14
93	The dependence of halo mass on galaxy size at fixed stellar mass using weak lensing. Monthly Notices of the Royal Astronomical Society, 2017, 472, 2367-2387.	4.4	14
94	Peculiar velocities in the local Universe: comparison of different models and the implications for H_0 and dark matter. Monthly Notices of the Royal Astronomical Society, 2021, 507, 2697-2713.	4.4	14
95	Evolution of subhalo orbits in a smoothly growing host halo potential. Monthly Notices of the Royal Astronomical Society, 2021, 503, 1233-1247.	4.4	12
96	New constraints on anisotropic expansion from supernovae Type Ia. Monthly Notices of the Royal Astronomical Society, 2022, 514, 139-163.	4.4	12
97	Kinematic bias in cosmological distance measurement: Figure 1.. Monthly Notices of the Royal Astronomical Society, 2015, 454, 288-294.	4.4	11
98	Ram pressure candidates in UNIONS. Monthly Notices of the Royal Astronomical Society, 2021, 509, 1342-1357.	4.4	11
99	Streaming motions of galaxy clusters within 12 000 km s ⁻¹ - II. New photometric data for the Fundamental Plane. Monthly Notices of the Royal Astronomical Society, 2001, 327, 249-264.	4.4	10
100	ATLAS probe: Breakthrough science of galaxy evolution, cosmology, Milky Way, and the Solar System. Publications of the Astronomical Society of Australia, 2019, 36, .	3.4	10
101	Neural physical engines for inferring the halo mass distribution function. Monthly Notices of the Royal Astronomical Society, 2020, 494, 50-61.	4.4	10
102	Assessing the accuracy of cosmological parameters estimated from velocity – density comparisons via simulations. Monthly Notices of the Royal Astronomical Society, 2021, 502, 3723-3732.	4.4	10
103	Dynamical friction in the primordial neutrino sea. Monthly Notices of the Royal Astronomical Society, 2017, 468, 2164-2175.	4.4	7
104	Probing satellite haloes with weak gravitational lensing. Monthly Notices of the Royal Astronomical Society, 2013, 429, 372-384.	4.4	4
105	How dark are filaments in the cosmic web?. Monthly Notices of the Royal Astronomical Society, 2020, 498, 3158-3170.	4.4	4
106	Constraints on Cosmological Models from Cosmic Flows. Symposium - International Astronomical Union, 2005, 201, 471-472.	0.1	0
107	“Downsizing” from the fossil record: Ages and metallicities of red galaxies and their dependence on mass and on environment. Proceedings of the International Astronomical Union, 2006, 2, 389-390.	0.0	0
108	Ages and metallicities of faint red galaxies in the Shapley Supercluster. Proceedings of the International Astronomical Union, 2007, 3, 411-414.	0.0	0

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109	The Star Formation Histories of Red-Sequence Galaxies. , 2010, , .		0
110	Cosmological parameters from the comparison of peculiar velocities with predictions from the 2M++ density field. Proceedings of the International Astronomical Union, 2014, 11, 318-321.	0.0	0
111	Large-scale structure: Going with the flow. Nature Astronomy, 2017, 1, .	10.1	0
112	Peculiar Motions of Clusters in the Perseus-Pisces Region. Globular Clusters - Guides To Galaxies, 1997, , 296-305.	0.1	0
113	Galaxy-Galaxy Lensing in the Hubble Deep Field: the Halo Tully-Fisher Relation at High Redshift. Globular Clusters - Guides To Galaxies, 1997, , 83-92.	0.1	0