

David Wittman

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

2,623
citations

201385

27
h-index

189595

50
g-index

60
all docs

60
docs citations

60
times ranked

2319
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Weak-Lensing Results from the 75 Square Degree Cerro Tololo Inter-American Observatory Survey. Astronomical Journal, 2003, 125, 1014-1032.	1.9	156
3	The case for electron re-acceleration at galaxy cluster shocks. Nature Astronomy, 2017, 1, .	4.2	142
4	First Results on Shear-selected Clusters from the Deep Lens Survey: Optical Imaging, Spectroscopy, and X-ray Follow-up. Astrophysical Journal, 2006, 643, 128-143.	1.6	131
5	COSMIC SHEAR RESULTS FROM THE DEEP LENS SURVEY. I. JOINT CONSTRAINTS ON Ω_M AND Ω_8 WITH A TWO-DIMENSIONAL ANALYSIS. Astrophysical Journal, 2013, 765, 74.	1.6	114
6	DISCOVERY OF A DISSOCIATIVE GALAXY CLUSTER MERGER WITH LARGE PHYSICAL SEPARATION. Astrophysical Journal Letters, 2012, 747, L42.	3.0	111
7	Handbook for the GREAT08 Challenge: An image analysis competition for cosmological lensing. Annals of Applied Statistics, 2009, 3, .	0.5	93
8	COSMIC SHEAR RESULTS FROM THE DEEP LENS SURVEY. II. FULL COSMOLOGICAL PARAMETER CONSTRAINTS FROM TOMOGRAPHY. Astrophysical Journal, 2016, 824, 77.	1.6	92
9	Discovery of a Galaxy Cluster via Weak Lensing. Astrophysical Journal, 2001, 557, L89-L92.	1.6	90
10	The Deep Lens Survey Transient Search. I. Short Timescale and Astrometric Variability. Astrophysical Journal, 2004, 611, 418-433.	1.6	87
11	In the wake of dark giants: new signatures of dark matter self-interactions in equal-mass mergers of galaxy clusters. Monthly Notices of the Royal Astronomical Society, 2017, 469, 1414-1444.	1.6	73
12	SHELS: The Hectospec Lensing Survey. Astrophysical Journal, 2005, 635, L125-L128.	1.6	56
13	The rise and fall of star formation in $z \sim 0.2$ merging galaxy clusters. Monthly Notices of the Royal Astronomical Society, 2015, 450, 646-665.	1.6	56
14	The Mismeasure of Mergers: Revised Limits on Self-interacting Dark Matter in Merging Galaxy Clusters. Astrophysical Journal, 2018, 869, 104.	1.6	56
15	MC2: boosted AGN and star formation activity in CIZA J2242.8+5301, a massive post-merger cluster at $z \sim 0.19$ Monthly Notices of the Royal Astronomical Society, 2015, 450, 630-645.	1.6	54
16	Ω_M : CONSTRAINING THE DARK MATTER DISTRIBUTION OF THE VIOLENT MERGING GALAXY CLUSTER CIZA J2242.8+5301 BY PIERCING THROUGH THE MILKY WAY. Astrophysical Journal, 2015, 802, 46.	1.6	49
17	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
18	Weak-Lensing Discovery and Tomography of a Cluster at $z = 0.68$. Astrophysical Journal, 2003, 597, 218-224.	1.6	39

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19	WHAT LIES BENEATH: USING $\langle i \rangle_p$ ($\langle i \rangle_z$) TO REDUCE SYSTEMATIC PHOTOMETRIC REDSHIFT ERRORS. <i>Astrophysical Journal</i> , 2009, 700, L174-L177.	1.6	38
20	$\langle i \rangle$ HUBBLE SPACE TELESCOPE OBSERVATIONS OF FIELD ULTRACOOL DWARFS AT HIGH GALACTIC LATITUDE. <i>Astrophysical Journal</i> , 2011, 739, 83.	1.6	37
21	Merging Cluster Collaboration: A Panchromatic Atlas of Radio Relic Mergers. <i>Astrophysical Journal</i> , 2019, 882, 69.	1.6	37
22	Tomographic magnification of Lyman-break galaxies in the Deep Lens Survey. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 426, 2489-2499.	1.6	35
23	MC ² : GALAXY IMAGING AND REDSHIFT ANALYSIS OF THE MERGING CLUSTER CIZA J2242.8+5301. <i>Astrophysical Journal</i> , 2015, 805, 143.	1.6	35
24	The return of the merging galaxy subclusters of El Gordo?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 453, 1531-1549.	1.6	31
25	MC ² : MAPPING THE DARK MATTER DISTRIBUTION OF THE "TOOTHBRUSH" CLUSTER RX J0603.3+4214 WITH HUBBLE SPACE TELESCOPE AND SUBARU WEAK LENSING*. <i>Astrophysical Journal</i> , 2016, 817, 179.	1.6	30
26	Merging Cluster Collaboration: Optical and Spectroscopic Survey of a Radio-selected Sample of 29 Merging Galaxy Clusters. <i>Astrophysical Journal</i> , Supplement Series, 2019, 240, 39.	3.0	30
27	First results of an on-line adaptive optics system with atmospheric wavefront sensing by an artificial neural network. <i>Astrophysical Journal</i> , 1992, 390, L41.	1.6	30
28	MC ² : DYNAMICAL ANALYSIS OF THE MERGING GALAXY CLUSTER MACS J1149.5+2223. <i>Astrophysical Journal</i> , 2016, 831, 110.	1.6	29
29	MC ² : Multiwavelength and Dynamical Analysis of the Merging Galaxy Cluster ZwCl 0008.8+5215: An Older and Less Massive Bullet Cluster. <i>Astrophysical Journal</i> , 2017, 838, 110.	1.6	28
30	SHEAR-SELECTED CLUSTERS FROM THE DEEP LENS SURVEY. III. MASSES FROM WEAK LENSING. <i>Astrophysical Journal</i> , 2009, 702, 603-613.	1.6	26
31	Probing the Relation Between X-Ray-Derived and Weak-Lensing-Derived Masses for Shear-Selected Galaxy Clusters. I. A781. <i>Astrophysical Journal</i> , 2008, 673, 163-175.	1.6	25
32	Bayesian cluster finder: clusters in the CFHTLS Archive Research Survey. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 420, 1167-1182.	1.6	24
33	MC ² : Subaru and Hubble Space Telescope Weak-lensing Analysis of the Double Radio Relic Galaxy Cluster PLCK G287.0+32.9. <i>Astrophysical Journal</i> , 2017, 851, 46.	1.6	24
34	DARK MATTER STRUCTURES IN THE DEEP LENS SURVEY. <i>Astrophysical Journal</i> , 2009, 702, 980-988.	1.6	23
35	GALAXY-MASS CORRELATIONS ON 10 Mpc SCALES IN THE DEEP LENS SURVEY. <i>Astrophysical Journal</i> , 2012, 759, 101.	1.6	21
36	Adaptive optics experiments using sodium laser guide stars. <i>Astrophysical Journal</i> , 1995, 439, 455.	1.6	21

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37	Spurious Shear from the Atmosphere in Ground-based Weak-lensing Observations. <i>Astrophysical Journal</i> , 2005, 632, L5-L8.	1.6	19
38	Weak-Lensing Detection of Cl 1604+4304 at $z=0.90$. <i>Astronomical Journal</i> , 2005, 129, 20-25.	1.9	19
39	Direct 75 millisecond images from the Multiple Mirror Telescope with adaptive optics. <i>Astrophysical Journal</i> , 1993, 402, L81.	1.6	18
40	Constraints on Cosmology and Baryonic Feedback with the Deep Lens Survey Using Galaxy-Galaxy and Galaxy-Mass Power Spectra. <i>Astrophysical Journal</i> , 2019, 870, 111.	1.6	17
41	Wide-Field Weak Lensing by RX J1347+1145. <i>Astrophysical Journal</i> , 2005, 625, 643-655.	1.6	16
42	Photometric Redshifts and Signal-to-Noise Ratios. <i>Astrophysical Journal</i> , 2008, 679, 31-51.	1.6	16
43	Simulated Analogs of Merging Galaxy Clusters Constrain the Viewing Angle. <i>Astrophysical Journal</i> , 2018, 862, 160.	1.6	16
44	Three Gravitational Lenses for the Price of One: Enhanced Strong Lensing through Galaxy Clustering. <i>Astrophysical Journal</i> , 2006, 651, 667-675.	1.6	15
45	Optical galaxy clusters in the Deep Lens Survey. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 439, 1980-1995.	1.6	15
46	Exemplary Merging Clusters: Weak-lensing and X-Ray Analysis of the Double Radio Relic, Merging Galaxy Clusters MACS J1752.0+4440 and ZWCL 1856.8+6616. <i>Astrophysical Journal</i> , 2021, 918, 72.	1.6	13
47	Ubercalibration of the Deep Lens Survey. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 421, 2251-2263.	1.6	12
48	Shaping Attitudes Toward Science in an Introductory Astronomy Course. <i>Physics Teacher</i> , 2009, 47, 591-594.	0.2	11
49	Brightest Cluster Galaxy Alignments in Merging Clusters. <i>Astrophysical Journal</i> , 2019, 874, 84.	1.6	11
50	MC ² : A Deeper Look at ZwCl 2341.1+0000 with Bayesian Galaxy Clustering and Weak Lensing Analyses. <i>Astrophysical Journal</i> , 2017, 841, 7.	1.6	10
51	STAR FORMATION IN THE CLUSTER MERGER DLSCL J0916.2+2953. <i>Astrophysical Journal</i> , 2017, 834, 205.	1.6	9
52	Multiwavelength Analysis of the Merging Galaxy Cluster A115. <i>Astrophysical Journal</i> , 2019, 874, 143.	1.6	9
53	Chandra Observations of the Spectacular A3411+12 Merger Event. <i>Astrophysical Journal</i> , 2019, 887, 31.	1.6	9
54	Shedding light on the matter of Abell 781. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 437, 3578-3585.	1.6	8

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55	Photometric Redshifts and Photometry Errors. <i>Astrophysical Journal</i> , 2007, 671, L109-L112.	1.6	7
56	Dynamical Properties of Merging Galaxy Clusters from Simulated Analogs. <i>Astrophysical Journal</i> , 2019, 881, 121.	1.6	7
57	Precision Weak Gravitational Lensing Using Velocity Fields: Fisher Matrix Analysis. <i>Astrophysical Journal</i> , 2021, 908, 34.	1.6	3
58	High-Resolution V, I, and K-Band Imaging of Faint Field Galaxies from the HST Medium-Deep Survey. <i>Astronomical Journal</i> , 1997, 113, 1537.	1.9	2
59	CONSTRAINING SOURCE REDSHIFT DISTRIBUTIONS WITH GRAVITATIONAL LENSING. <i>Astrophysical Journal</i> , 2012, 756, 140.	1.6	1
60	X-Ray Temperatures, Luminosities, and Masses from XMM-Newton Follow-up of the First Shear-selected Galaxy Cluster Sample $\hat{\alpha}$. <i>Astrophysical Journal</i> , 2017, 839, 124.	1.6	1