

# Andrew Williams

## List of Publications by Year in descending order

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62  
papers

5,558  
citations

117625

34  
h-index

118850

62  
g-index

62  
all docs

62  
docs citations

62  
times ranked

3350  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Murchison Widefield Array: The Square Kilometre Array Precursor at Low Radio Frequencies. Publications of the Astronomical Society of Australia, 2013, 30, .	3.4	892
2	One or more bound planets per Milky Way star from microlensing observations. Nature, 2012, 481, 167-169.	27.8	475
3	The Murchison Widefield Array: Design Overview. Proceedings of the IEEE, 2009, 97, 1497-1506.	21.3	311
4	FREQUENCY OF SOLAR-LIKE SYSTEMS AND OF ICE AND GAS GIANTS BEYOND THE SNOW LINE FROM HIGH-MAGNIFICATION MICROLENSING EVENTS IN 2005-2008. Astrophysical Journal, 2010, 720, 1073-1089.	4.5	296
5	Science with the Murchison Widefield Array. Publications of the Astronomical Society of Australia, 2013, 30, .	3.4	260
6	A COLD NEPTUNE-MASS PLANET OGLE-2007-BLG-368Lb: Cold neptunes are common. Astrophysical Journal, 2010, 710, 1641-1653.	4.5	204
7	OGLE-2005-BLG-071Lb, THE MOST MASSIVE M DWARF PLANETARY COMPANION?. Astrophysical Journal, 2009, 695, 970-987.	4.5	173
8	Difference imaging photometry of blended gravitational microlensing events with a numerical kernel. Monthly Notices of the Royal Astronomical Society, 2009, 397, 2099-2105.	4.4	170
9	First Microlens Mass Measurement: PLANET Photometry of EROS BLG-2000-5. Astrophysical Journal, 2002, 572, 521-539.	4.5	167
10	Detection of Rotation in a Binary Microlens: PLANET Photometry of MACHO 97-BLG-41. Astrophysical Journal, 2000, 534, 894-906.	4.5	156
11	BINARY MICROLENSING EVENT OGLE-2009-BLG-020 GIVES VERIFIABLE MASS, DISTANCE, AND ORBIT PREDICTIONS. Astrophysical Journal, 2011, 738, 87.	4.5	133
12	MOA-2009-BLG-387Lb: a massive planet orbiting an M dwarf. Astronomy and Astrophysics, 2011, 529, A102.	5.1	131
13	Microlensing Constraints on the Frequency of Jupiter-Mass Companions: Analysis of 5 Years of PLANET Photometry. Astrophysical Journal, 2002, 566, 463-499.	4.5	125
14	THE EXTREME MICROLENSING EVENT OGLE-2007-BLG-224: TERRESTRIAL PARALLAX OBSERVATION OF A THICK-DISK BROWN DWARF. Astrophysical Journal, 2009, 698, L147-L151.	4.5	124
15	DISCOVERY AND MASS MEASUREMENTS OF A COLD, 10 EARTH MASS PLANET AND ITS HOST STAR. Astrophysical Journal, 2011, 741, 22.	4.5	117
16	Limb Darkening of a K Giant in the Galactic Bulge: PLANET Photometry of MACHO 97-BLG-28. Astrophysical Journal, 1999, 522, 1011-1021.	4.5	102
17	Combined Analysis of the Binary Lens Caustic-Crossing Event MACHO 98-BMC-1. Astrophysical Journal, 2000, 532, 340-352.	4.5	99
18	PLANET Observations of Microlensing Event OGLE-1999-BUL-23: Limb-Darkening Measurement of the Source Star. Astrophysical Journal, 2001, 549, 759-769.	4.5	87

#	ARTICLE	IF	CITATIONS
19	Limits on the Abundance of Galactic Planets From 5 Years of PLANET Observations. <i>Astrophysical Journal</i> , 2001, 556, L113-L116.	4.5	78
20	FAST HOLOGRAPHIC DECONVOLUTION: A NEW TECHNIQUE FOR PRECISION RADIO INTERFEROMETRY. <i>Astrophysical Journal</i> , 2012, 759, 17.	4.5	76
21	EXTREME MAGNIFICATION MICROLENSING EVENT OGLE-2008-BLG-279: STRONG LIMITS ON PLANETARY COMPANIONS TO THE LENS STAR. <i>Astrophysical Journal</i> , 2009, 703, 2082-2090.	4.5	74
22	CONFIRMATION OF WIDE-FIELD SIGNATURES IN REDSHIFTED 21 cm POWER SPECTRA. <i>Astrophysical Journal Letters</i> , 2015, 807, L28.	8.3	73
23	High-Precision Limb-Darkening Measurement of a K3 Giant Using Microlensing. <i>Astrophysical Journal</i> , 2003, 596, 1305-1319.	4.5	72
24	A Complete Set of Solutions for Caustic Crossing Binary Microlensing Events. <i>Astrophysical Journal</i> , 1999, 522, 1022-1036.	4.5	67
25	MOA 2010-BLG-477Lb: CONSTRAINING THE MASS OF A MICROLENSING PLANET FROM MICROLENSING PARALLAX, ORBITAL MOTION, AND DETECTION OF BLENDED LIGHT. <i>Astrophysical Journal</i> , 2012, 754, 73.	4.5	64
26	Limits on Stellar and Planetary Companions in Microlensing Event OGLE-1998-BUL-14. <i>Astrophysical Journal</i> , 2000, 535, 176-189.	4.5	62
27	The EoR sensitivity of the Murchison Widefield Array. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2013, 429, L5-L9.	3.3	62
28	The Relative Lens-Source Proper Motion in MACHO 98-SMC-1. <i>Astrophysical Journal</i> , 1999, 512, 672-677.	4.5	59
29	MOA-2010-BLG-073L: AN M-DWARF WITH A SUBSTELLAR COMPANION AT THE PLANET/BROWN DWARF BOUNDARY. <i>Astrophysical Journal</i> , 2013, 763, 67.	4.5	54
30	The PLANET microlensing follow-up network: results and prospects for the detection of extra-solar planets. <i>Planetary and Space Science</i> , 2002, 50, 299-307.	1.7	52
31	OGLE-2003-BLG-238: Microlensing Mass Estimate of an Isolated Star. <i>Astrophysical Journal</i> , 2004, 617, 1307-1315.	4.5	50
32	Interferometric Imaging with the 32 Element Murchison Wide-Field Array. <i>Publications of the Astronomical Society of the Pacific</i> , 2010, 122, 1353-1366.	3.1	45
33	Discovery of the Optical Counterpart and Early Optical Observations of GRB 990712. <i>Astrophysical Journal</i> , 2000, 540, 74-80.	4.5	41
34	MICROLENSING BINARIES WITH CANDIDATE BROWN DWARF COMPANIONS. <i>Astrophysical Journal</i> , 2012, 760, 116.	4.5	39
35	FIRST SPECTROSCOPIC IMAGING OBSERVATIONS OF THE SUN AT LOW RADIO FREQUENCIES WITH THE MURCHISON WIDEFIELD ARRAY PROTOTYPE. <i>Astrophysical Journal Letters</i> , 2011, 728, L27.	8.3	38
36	Low Altitude Solar Magnetic Reconnection, Type III Solar Radio Bursts, and X-ray Emissions. <i>Scientific Reports</i> , 2018, 8, 1676.	3.3	38

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37	THE SPECTRAL VARIABILITY OF THE GHZ-PEAKED SPECTRUM RADIO SOURCE PKS 1718-649 AND A COMPARISON OF ABSORPTION MODELS. <i>Astronomical Journal</i> , 2015, 149, 74.	4.7	36
38	OGLE-2005-BLG-153: MICROLENSING DISCOVERY AND CHARACTERIZATION OF A VERY LOW MASS BINARY. <i>Astrophysical Journal</i> , 2010, 723, 797-802.	4.5	33
39	Potential Direct Single Star Mass Measurement. <i>Astrophysical Journal</i> , 2004, 615, 450-459.	4.5	32
40	LOW-FREQUENCY OBSERVATIONS OF THE MOON WITH THE MURCHISON WIDEFIELD ARRAY. <i>Astronomical Journal</i> , 2013, 145, 23.	4.7	31
41	A giant planet beyond the snow line in microlensing event OGLE-2011-BLG-0251. <i>Astronomy and Astrophysics</i> , 2013, 552, A70.	5.1	30
42	CHARACTERIZING LENSES AND LENSED STARS OF HIGH-MAGNIFICATION SINGLE-LENS GRAVITATIONAL MICROLENSING EVENTS WITH LENSES PASSING OVER SOURCE STARS. <i>Astrophysical Journal</i> , 2012, 751, 41.	4.5	27
43	H $\beta$ Equivalent Width Variations across the Face of a Microlensed K Giant in the Galactic Bulge. <i>Astrophysical Journal</i> , 2001, 550, L173-L177.	4.5	26
44	A Short, Nonplanetary, Microlensing Anomaly: Observations and Light Curve Analysis of MACHO 99-BLG-47. <i>Astrophysical Journal</i> , 2002, 572, 1031-1040.	4.5	25
45	Limits on additional planetary companions to OGLE-2005-BLG-390L. <i>Astronomy and Astrophysics</i> , 2008, 483, 317-324.	5.1	25
46	LOW-FREQUENCY IMAGING OF FIELDS AT HIGH GALACTIC LATITUDE WITH THE MURCHISON WIDEFIELD ARRAY 32 ELEMENT PROTOTYPE. <i>Astrophysical Journal</i> , 2012, 755, 47.	4.5	25
47	Mass measurement of a single unseen star and planetary detection efficiency for OGLE 2007-BLG-050. <i>Astronomy and Astrophysics</i> , 2009, 508, 467-478.	5.1	23
48	OGLE-2008-BLG-510: first automated real-time detection of a weak microlensing anomaly - brown dwarf or stellar binary? ... <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 424, 902-918.	4.4	21
49	A new layout optimization technique for interferometric arrays, applied to the Murchison Widefield Array. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 425, 1781-1788.	4.4	20
50	MURCHISON WIDEFIELD ARRAY OBSERVATIONS OF ANOMALOUS VARIABILITY: A SERENDIPITOUS NIGHT-TIME DETECTION OF INTERPLANETARY SCINTILLATION. <i>Astrophysical Journal Letters</i> , 2015, 809, L12.	8.3	19
51	THE LOW-FREQUENCY CHARACTERISTICS OF PSR J0437+4715 OBSERVED WITH THE MURCHISON WIDE-FIELD ARRAY. <i>Astrophysical Journal Letters</i> , 2014, 791, L32.	8.3	17
52	A brown dwarf orbiting an M-dwarf: MOA-2009-BLG-411L. <i>Astronomy and Astrophysics</i> , 2012, 547, A55.	5.1	16
53	OGLE-2008-BLG-290: an accurate measurement of the limb darkening of a galactic bulge K Giant spatially resolved by microlensing. <i>Astronomy and Astrophysics</i> , 2010, 518, A51.	5.1	14
54	A POSSIBLE BINARY SYSTEM OF A STELLAR REMNANT IN THE HIGH-MAGNIFICATION GRAVITATIONAL MICROLENSING EVENT OGLE-2007-BLG-514. <i>Astrophysical Journal</i> , 2012, 752, 82.	4.5	14

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55	MICROLENSING BINARIES DISCOVERED THROUGH HIGH-MAGNIFICATION CHANNEL. <i>Astrophysical Journal</i> , 2012, 746, 127.	4.5	14
56	MOA-2010-BLG-523: "FAILED PLANET" RS CVn STAR. <i>Astrophysical Journal</i> , 2013, 763, 141.	4.5	14
57	A systematic fitting scheme for caustic-crossing microlensing events. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009, 395, 787-796.	4.4	11
58	Calibration database for the Murchison Widefield Array All-Sky Virtual Observatory. <i>Publications of the Astronomical Society of Australia</i> , 2020, 37, .	3.4	7
59	The massive eclipsing system ALS 1135 and variable stars in the field of the distant OB association Bochum 7. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 429, 1354-1366.	4.4	5
60	INTERPRETATION OF STRONG SHORT-TERM CENTRAL PERTURBATIONS IN THE LIGHT CURVES OF MODERATE-MAGNIFICATION MICROLENSING EVENTS. <i>Astrophysical Journal</i> , 2009, 705, 1116-1121.	4.5	4
61	Southern Hemisphere automated supernova search. <i>Review of Scientific Instruments</i> , 1995, 66, 2777-2784.	1.3	2
62	PLANET III: searching for Earth-mass planets via microlensing from Dome C?. <i>EAS Publications Series</i> , 2005, 14, 297-302.	0.3	1