

Matthew T Whiting

List of Publications by Year in descending order

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96
papers

6,471
citations

126907

33
h-index

62596

80
g-index

97
all docs

97
docs citations

97
times ranked

9831
citing authors

#	ARTICLE	IF	CITATIONS
1	Multi-messenger Observations of a Binary Neutron Star Merger [*] . Astrophysical Journal Letters, 2017, 848, L12.	8.3	2,805
2	The dispersionâ€“brightness relation for fast radio bursts from a wide-field survey. Nature, 2018, 562, 386-390.	27.8	223
3	LOCALIZATION AND BROADBAND FOLLOW-UP OF THE GRAVITATIONAL-WAVE TRANSIENT GW150914. Astrophysical Journal Letters, 2016, 826, L13.	8.3	210
4	The H ₂ O Southern Galactic Plane Survey (HOPS) - I. Techniques and H ₂ O maser data. Monthly Notices of the Royal Astronomical Society, 2011, 416, 1764-1821.	4.4	163
5	Follow Up of GW170817 and Its Electromagnetic Counterpart by Australian-Led Observing Programmes. Publications of the Astronomical Society of Australia, 2017, 34, .	3.4	142
6	The Detection of an Extremely Bright Fast Radio Burst in a Phased Array Feed Survey. Astrophysical Journal Letters, 2017, 841, L12.	8.3	133
7	WALLABY â€“ an SKA Pathfinder H&#i survey. Astrophysics and Space Science, 2020, 365, 1.	1.4	128
8	Australian square kilometre array pathfinder: I. system description. Publications of the Astronomical Society of Australia, 2021, 38, .	3.4	128
9	The Rapid ASKAP Continuum Survey I: Design and first results. Publications of the Astronomical Society of Australia, 2020, 37, .	3.4	127
10	An ultra-wide bandwidth (704 to 4Â032ÂMHz) receiver for the Parkes radio telescope. Publications of the Astronomical Society of Australia, 2020, 37, .	3.4	113
11	duchamp: a 3D source finder for spectral-line data. Monthly Notices of the Royal Astronomical Society, 2012, 421, 3242-3256.	4.4	104
12	The Australian Square Kilometre Array Pathfinder: System Architecture and Specifications of the Boolardy Engineering Test Array. Publications of the Astronomical Society of Australia, 2014, 31, .	3.4	91
13	The Australian Square Kilometre Array Pathfinder: Performance of the Boolardy Engineering Test Array. Publications of the Astronomical Society of Australia, 2016, 33, .	3.4	75
14	A Very Radio Loud Narrowâ€“line Seyfert 1: PKS 2004âˆ’447. Astrophysical Journal, 2001, 558, 578-582.	4.5	72
15	The H ₂ O Southern Galactic Plane Survey: NH ₃ â€“(1,1) and (2,2) catalogues. Monthly Notices of the Royal Astronomical Society, 2012, 426, 1972-1991.	4.4	72
16	The Parkes Observatory Pulsar Data Archive. Publications of the Astronomical Society of Australia, 2011, 28, 202-214.	3.4	69
17	Black Hole Mass Estimates of Radioâ€“selected Quasars. Astrophysical Journal, 2002, 576, 81-88.	4.5	66
18	The Evolutionary Map of the Universe pilot survey. Publications of the Astronomical Society of Australia, 2021, 38, .	3.4	64

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19	Discovery of H ₂ gas in a young radio galaxy at $z = 0.44$ using the Australian Square Kilometre Array Pathfinder. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 453, 1249-1267.	4.4	61
20	The Optical/Near-IR Colours of Red Quasars. <i>Publications of the Astronomical Society of Australia</i> , 2000, 17, 56-71.	3.4	59
21	A survey for redshifted molecular and atomic absorption lines - II. Associated H ₂ , OH and millimetre lines in the $z \approx 3$ Parkes quarter-Jansky flat-spectrum sample. <i>Monthly Notices of the Royal Astronomical Society</i> , 2008, 391, 765-784.	4.4	59
22	ASKAP H ₂ imaging of the galaxy group IC 1459. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 452, 2680-2691.	4.4	54
23	A survey for redshifted molecular and atomic absorption lines - I. The Parkes half-Jansky flat-spectrum red quasar sample. <i>Monthly Notices of the Royal Astronomical Society</i> , 2006, 371, 431-443.	4.4	52
24	H I 21 cm ABSORPTION AND UNIFIED SCHEMES OF ACTIVE GALACTIC NUCLEI. <i>Astrophysical Journal</i> , 2010, 712, 303-317.	4.5	48
25	The Rapid ASKAP Continuum Survey Paper II: First Stokes I Source Catalogue Data Release. <i>Publications of the Astronomical Society of Australia</i> , 2021, 38, .	3.4	46
26	A search for 21 cm H ₂ absorption in AT20G compact radio galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 423, 2601-2616.	4.4	45
27	An ASKAP Search for a Radio Counterpart to the First High-significance Neutron Star "Black Hole Merger LIGO/Virgo S190814bv. <i>Astrophysical Journal Letters</i> , 2019, 887, L13.	8.3	45
28	SUPPLEMENT: LOCALIZATION AND BROADBAND FOLLOW-UP OF THE GRAVITATIONAL-WAVE TRANSIENT GW150914 (2016, <i>ApJL</i> , 826, L13). <i>Astrophysical Journal, Supplement Series</i> , 2016, 225, 8.	7.7	44
29	Red synchrotron jets in Parkes quasars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2001, 323, 718-732.	4.4	42
30	The ASKAP/EMU Source Finding Data Challenge. <i>Publications of the Astronomical Society of Australia</i> , 2015, 32, .	3.4	39
31	A Search for the Host Galaxy of FRB 171020. <i>Astrophysical Journal Letters</i> , 2018, 867, L10.	8.3	38
32	Redshifted H ₂ and OH absorption in radio galaxies and quasars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 413, 1165-1173.	4.4	34
33	Cold gas outflows from the Small Magellanic Cloud traced with ASKAP. <i>Nature Astronomy</i> , 2018, 2, 901-906.	10.1	34
34	On the H ₂ column density "radio source size anticorrelation in compact radio sources. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 431, 3408-3413.	4.4	33
35	Illuminating the past 8 billion years of cold gas towards two gravitationally lensed quasars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 465, 4450-4467.	4.4	31
36	A survey for the missing hydrogen in high-redshift radio sources. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 428, 2053-2063.	4.4	30

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37	H2O Southern Galactic Plane Survey (HOPS): Paper III – properties of dense molecular gas across the inner Milky Way. Monthly Notices of the Royal Astronomical Society, 2017, 470, 1462-1490.	4.4	30
38	WALLABY Early Science – II. The NGC 7232 galaxy group. Monthly Notices of the Royal Astronomical Society, 2019, 487, 5248-5262.	4.4	30
39	COMPLETE IONIZATION OF THE NEUTRAL GAS: WHY THERE ARE SO FEW DETECTIONS OF 21 cm HYDROGEN IN HIGH-REDSHIFT RADIO GALAXIES AND QUASARS. Astrophysical Journal, 2012, 759, 117.	4.5	29
40	Unexpected circular radio objects at high Galactic latitude. Publications of the Astronomical Society of Australia, 2021, 38, .	3.4	29
41	A circular polarization survey for radio stars with the Australian SKA Pathfinder. Monthly Notices of the Royal Astronomical Society, 2021, 502, 5438-5454.	4.4	29
42	Measuring the distance to the black hole candidate X-ray binary MAXI J1348–630 using H α absorption. Monthly Notices of the Royal Astronomical Society: Letters, 2021, 501, L60-L64.	3.3	29
43	WALLABY Early Science – IV. ASKAP H α imaging of the nearby galaxy IC5201. Monthly Notices of the Royal Astronomical Society, 2019, 488, 5352-5369.	4.4	28
44	FLASH early science – discovery of an intervening H α 21-cm absorber from an ASKAP survey of the GAMA23 field. Monthly Notices of the Royal Astronomical Society, 2020, 494, 3627-3641.	4.4	28
45	New searches for H α 21 cm in damped Lyman α absorption systems. Monthly Notices of the Royal Astronomical Society, 2010, 402, 35-45.	4.4	27
46	Application of a Bayesian Method to Absorption Spectral-Line Finding in Simulated ASKAP Data. Publications of the Astronomical Society of Australia, 2012, 29, 221-228.	3.4	26
47	Wide-field broad-band radio imaging with phased array feeds: a pilot multi-epoch continuum survey with ASKAP-BETA. Monthly Notices of the Royal Astronomical Society, 2016, 457, 4160-4178.	4.4	26
48	An H α absorption distance to the black hole candidate X-ray binary MAXI J1535–571. Monthly Notices of the Royal Astronomical Society: Letters, 2019, 488, L129-L133.	3.3	26
49	The ASKAP Variables and Slow Transients (VAST) Pilot Survey. Publications of the Astronomical Society of Australia, 2021, 38, .	3.4	26
50	Near-Infrared, Kilosecond Variability of the Wisps and Jet in the Crab Pulsar Wind Nebula. Astrophysical Journal, 2005, 633, 931-940.	4.5	25
51	Multi-object spectroscopy of the field surrounding PKS 2126-158: discovery of a z= 0.66 galaxy group. Monthly Notices of the Royal Astronomical Society, 2006, 368, 341-350.	4.4	25
52	Connecting X-ray absorption and 21cm neutral hydrogen absorption in obscured radio AGN. Monthly Notices of the Royal Astronomical Society, 2017, 471, 2952-2973.	4.4	24
53	WALLABY early science – V. ASKAP H α imaging of the Lyon Group of Galaxies 351. Monthly Notices of the Royal Astronomical Society, 2019, 489, 5723-5741.	4.4	24
54	A pilot ASKAP survey of radio transient events in the region around the intermittent pulsar PSR J1107–5907. Monthly Notices of the Royal Astronomical Society, 2016, 456, 3948-3960.	4.4	23

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55	H I and OH absorption in the lensing galaxy of MG J0414+0534. Monthly Notices of the Royal Astronomical Society: Letters, 2007, 382, L11-L15.	3.3	22
56	On the absence of molecular absorption in high-redshift millimetre-band searches. Monthly Notices of the Royal Astronomical Society, 2011, 416, 2143-2153.	4.4	22
57	WALLABY early science â€“ I. The NGCâ€™7162 galaxy group. Monthly Notices of the Royal Astronomical Society, 2019, 482, 3591-3608.	4.4	22
58	A pilot survey for transients and variables with the Australian Square Kilometre Array Pathfinder. Monthly Notices of the Royal Astronomical Society, 2018, 478, 1784-1794.	4.4	20
59	A survey for Hâ€™i in the distant Universe: the detection of associated 21-cm absorption at $z \hat{=} 1.28$. Monthly Notices of the Royal Astronomical Society, 2013, 429, 3402-3410.	4.4	19
60	The Spectra of Red Quasars. Publications of the Astronomical Society of Australia, 2001, 18, 221-231.	3.4	18
61	Ionization of the atomic gas in redshifted radio sources. Monthly Notices of the Royal Astronomical Society, 2019, 484, 1182-1191.	4.4	18
62	The performance and calibration of the CRAFT flyâ€™s eye fast radio burst survey. Publications of the Astronomical Society of Australia, 2019, 36, .	3.4	18
63	A successful search for intervening 21â€™cm Hâ€™i absorption in galaxies at $0.4 < z < 1.0$ with the Australian square kilometre array pathfinder (ASKAP). Monthly Notices of the Royal Astronomical Society, 2020, 499, 4293-4311.	4.4	18
64	An ASKAP survey for Hâ€™i absorption towards dust-obscured quasars. Monthly Notices of the Royal Astronomical Society, 2019, 489, 4926-4943.	4.4	17
65	GASKAP-HI pilot survey science I: ASKAP zoom observations of $\langle \text{H I} \rangle$ emission in the Small Magellanic Cloud. Publications of the Astronomical Society of Australia, 2022, 39, .	3.4	15
66	The First Large Absorption Survey in H $\langle \text{I} \rangle$ (FLASH): I. Science goals and survey design. Publications of the Astronomical Society of Australia, 2022, 39, .	3.4	15
67	Localized Hâ€™i 21-cm absorption towards a double-lobed $z = 0.24$ radio galaxy. Monthly Notices of the Royal Astronomical Society: Letters, 2011, 414, L26-L30.	3.3	14
68	A search for Hâ€™i and OH absorption in $z < 3$ CO emitters. Monthly Notices of the Royal Astronomical Society, 2016, 457, 3666-3677.	4.4	14
69	Atomic and molecular absorption in redshifted radio sources. Monthly Notices of the Royal Astronomical Society, 2017, 467, 4514-4525.	4.4	13
70	Numerical simulations on the relative importance of starbursts and AGN in ultraluminous infrared galaxies. Monthly Notices of the Royal Astronomical Society, 2006, 371, 805-820.	4.4	11
71	PKSâ€™1740 $\mathbf{-}517$: An ALMA view of the cold gas feeding a distant interacting young radio galaxy. Monthly Notices of the Royal Astronomical Society, 0, , .	4.4	11
72	Evolutionary map of the Universe (EMU): Compact radio sources in the $\langle \text{scorpio} \rangle$ field towards the galactic plane. Monthly Notices of the Royal Astronomical Society, 2021, 502, 60-79.	4.4	11

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73	Tracing the neutral gas environments of young radio AGN with ASKAP. <i>Astronomische Nachrichten</i> , 2016, 337, 175-179.	1.2	10
74	High-velocity OH megamasers in IRAS 20100 α 4156: evidence for a supermassive black hole. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 460, 2180-2185.	4.4	10
75	Astronomers! Do You Know Where Your Galaxies are?. <i>Thirty Years of Astronomical Discovery With UKIRT</i> , 2008, , 343-344.	0.3	10
76	WALLABY pre-pilot survey: two dark clouds in the vicinity of NGC1395. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 507, 2905-2921.	4.4	9
77	The radio spectral energy distribution of infrared-faint radio sources. <i>Astronomy and Astrophysics</i> , 2016, 593, A130.	5.1	8
78	Further observational evidence for a critical ionizing luminosity in active galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 470, 4600-4607.	4.4	8
79	A search for radio afterglows from gamma-ray bursts with the Australian Square Kilometre Array Pathfinder. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 503, 1847-1863.	4.4	8
80	A FOURTH H I 21 cm ABSORPTION SYSTEM IN THE SIGHT LINE OF MG J0414+0534: A RECORD FOR INTERVENING ABSORBERS. <i>Astrophysical Journal Letters</i> , 2013, 772, L25.	8.3	7
81	A search for fast-radio-burst-like emission from Fermi gamma-ray bursts. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 497, 125-129.	4.4	7
82	H α absorption at $z \approx 0.7$ against the lobe of the powerful radio galaxy PKS0409 α 75. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 509, 1690-1702.	4.4	6
83	The Variation of the Gas Content of Galaxy Groups and Pairs Compared to Isolated Galaxies. <i>Astrophysical Journal</i> , 2022, 927, 20.	4.5	6
84	The Optical Emission from Gamma-Ray Quasars. <i>Publications of the Astronomical Society of Australia</i> , 2003, 20, 196-202.	3.4	5
85	A third H α 21-cm absorption system in the sight-line of MG J0414+0534: a redshift for Object X?. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2011, 413, L86-L90.	3.3	5
86	Near Infrared Micro-variability of Radio-loud Quasars. <i>Publications of the Astronomical Society of Australia</i> , 2002, 19, 222-227.	3.4	3
87	HOPS: The H ₂ O Southern Galactic Plane Survey. <i>EAS Publications Series</i> , 2011, 52, 135-138.	0.3	3
88	Observations of cold extragalactic gas clouds at $z \approx 0.45$ towards PKS 1610-771. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 512, 3638-3650.	4.4	2
89	ASKAP data processing. , 2015, , .		1
90	Complete Ionisation of the Neutral Gas in High Redshift Radio Galaxies and Quasars. <i>Proceedings of the International Astronomical Union</i> , 2012, 8, 243-243.	0.0	0

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91	Status report of the end-to-end ASKAP software system: towards early science operations. , 2016, , .		0
92	First search for low-frequency CH with a Square Kilometre Array precursor telescope. Publications of the Astronomical Society of Australia, 2020, 37, , .	3.4	0
93	THE NATURE OF THE OPTICAL EMISSION IN RADIO-SELECTED AGN. , 2004, , , .		0
94	Blind Wide Area Surveys: Where will we find redshifted atomic and molecular absorption?. , 2010, , , .		0
95	The ASKAP and its big data challenge. , 2019, , , .		0
96	Wide-field Imaging with ASKAP: Challenges and Approaches. , 2019, , , .		0