

Stephen M Ord

List of Publications by Year in descending order

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122
papers

7,249
citations

61984

43
h-index

58581

82
g-index

122
all docs

122
docs citations

122
times ranked

4155
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	wsclean: an implementation of a fast, generic wide-field imager for radio astronomy. Monthly Notices of the Royal Astronomical Society, 2014, 444, 606-619.	4.4	562
3	GaLactic and Extragalactic All-sky Murchison Widefield Array (GLEAM) survey â€“ I. A low-frequency extragalactic catalogue. Monthly Notices of the Royal Astronomical Society, 2017, 464, 1146-1167.	4.4	402
4	The Murchison Widefield Array: Design Overview. Proceedings of the IEEE, 2009, 97, 1497-1506.	21.8	311
5	Upper Bounds on the Low-Frequency Stochastic Gravitational Wave Background from Pulsar Timing Observations: Current Limits and Future Prospects. Astrophysical Journal, 2006, 653, 1571-1576.	4.5	289
6	Science with the Murchison Widefield Array. Publications of the Astronomical Society of Australia, 2013, 30, .	3.4	260
7	GLEAM: The GaLactic and Extragalactic All-Sky MWA Survey. Publications of the Astronomical Society of Australia, 2015, 32, .	3.4	221
8	FIRST SEASON MWA EOR POWER SPECTRUM RESULTS AT REDSHIFT 7. Astrophysical Journal, 2016, 833, 102.	4.5	147
9	Real-Time Calibration of the Murchison Widefield Array. IEEE Journal on Selected Topics in Signal Processing, 2008, 2, 707-717.	10.8	137
10	A STUDY OF FUNDAMENTAL LIMITATIONS TO STATISTICAL DETECTION OF REDSHIFTED H I FROM THE EPOCH OF REIONIZATION. Astrophysical Journal, 2013, 776, 6.	4.5	123
11	FOREGROUNDS IN WIDE-FIELD REDSHIFTED 21 cm POWER SPECTRA. Astrophysical Journal, 2015, 804, 14.	4.5	122
12	Dispersion measure variations and their effect on precision pulsar timing. Monthly Notices of the Royal Astronomical Society, 2007, 378, 493-506.	4.4	121
13	FIRST LIGHT FOR THE FIRST STATION OF THE LONG WAVELENGTH ARRAY. Journal of Astronomical Instrumentation, 2012, 01, .	1.5	116
14	The Low-Frequency Environment of the Murchison Widefield Array: Radio-Frequency Interference Analysis and Mitigation. Publications of the Astronomical Society of Australia, 2015, 32, .	3.4	107
15	Empirical covariance modeling for 21 cm power spectrum estimation: A method demonstration and new limits from early Murchison Widefield Array 128-tile data. Physical Review D, 2015, 91, .	4.7	99
16	CHIPS: THE COSMOLOGICAL H I POWER SPECTRUM ESTIMATOR. Astrophysical Journal, 2016, 818, 139.	4.5	98
17	The Mass of a Millisecond Pulsar. Astrophysical Journal, 2005, 629, L113-L116.	4.5	94
18	High-precision baseband timing of 15 millisecond pulsars. Monthly Notices of the Royal Astronomical Society, 2006, 369, 1502-1520.	4.4	85

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19	A 189 MHz, 2400 deg ² POLARIZATION SURVEY WITH THE MURCHISON WIDEFIELD ARRAY 32-ELEMENT PROTOTYPE. <i>Astrophysical Journal</i> , 2013, 771, 105.	4.5	79
20	First limits on the 21 cm power spectrum during the Epoch of X-ray heating. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 460, 4320-4347.	4.4	79
21	FAST HOLOGRAPHIC DECONVOLUTION: A NEW TECHNIQUE FOR PRECISION RADIO INTERFEROMETRY. <i>Astrophysical Journal</i> , 2012, 759, 17.	4.5	76
22	CONFIRMATION OF WIDE-FIELD SIGNATURES IN REDSHIFTED 21 cm POWER SPECTRA. <i>Astrophysical Journal Letters</i> , 2015, 807, L28.	8.3	73
23	Limits on Fast Radio Bursts and other transient sources at 182 MHz using the Murchison Widefield Array. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 458, 3506-3522.	4.4	70
24	THE MURCHISON WIDEFIELD ARRAY 21 cm POWER SPECTRUM ANALYSIS METHODOLOGY. <i>Astrophysical Journal</i> , 2016, 825, 114.	4.5	67
25	Self-Consistency of Relativistic Observables with General Relativity in the White Dwarf-Neutron Star Binary PSR J1141-6545. <i>Astrophysical Journal</i> , 2003, 595, L49-L52.	4.5	66
26	Evidence for alignment of the rotation and velocity vectors in pulsars - II. Further data and emission heights. <i>Monthly Notices of the Royal Astronomical Society</i> , 2007, 381, 1625-1637.	4.4	65
27	BROADBAND SPECTRAL MODELING OF THE EXTREME GIGAHERTZ-PEAKED SPECTRUM RADIO SOURCE PKS B0008-421. <i>Astrophysical Journal</i> , 2015, 809, 168.	4.5	65
28	THE IMPORTANCE OF WIDE-FIELD FOREGROUND REMOVAL FOR 21 cm COSMOLOGY: A DEMONSTRATION WITH EARLY MWA EPOCH OF REIONIZATION OBSERVATIONS. <i>Astrophysical Journal</i> , 2016, 819, 8.	4.5	65
29	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
30	The Murchison Widefield Array Commissioning Survey: A Low-Frequency Catalogue of 14 110 Compact Radio Sources over 6 100 Square Degrees. <i>Publications of the Astronomical Society of Australia</i> , 2014, 31, .	3.4	62
31	Real-time imaging of density ducts between the plasmasphere and ionosphere. <i>Geophysical Research Letters</i> , 2015, 42, 3707-3714.	4.0	61
32	LOW-FREQUENCY OBSERVATIONS OF LINEARLY POLARIZED STRUCTURES IN THE INTERSTELLAR MEDIUM NEAR THE SOUTH GALACTIC POLE. <i>Astrophysical Journal</i> , 2016, 830, 38.	4.5	58
33	PSR J1909-3744: A Binary Millisecond Pulsar with a Very Small Duty Cycle. <i>Astrophysical Journal</i> , 2003, 599, L99-L102.	4.5	57
34	Green Bank Telescope Studies of Giant Pulses from Millisecond Pulsars. <i>Astrophysical Journal</i> , 2006, 640, 941-949.	4.5	55
35	A survey for transients and variables with the Murchison Widefield Array 32-tile prototype at 154 MHz. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 438, 352-367.	4.4	54
36	A Search for Giant Pulses from Millisecond Pulsars. <i>Astrophysical Journal</i> , 2005, 625, 951-956.	4.5	52

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37	Low-frequency Observations of the Subpulse Drifter PSR J0034+0721 with the Murchison Widefield Array. <i>Astrophysical Journal</i> , 2017, 836, 224.	4.5	48
38	The 154 MHz radio sky observed by the Murchison Widefield Array: noise, confusion, and first source count analyses. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 459, 3314-3325.	4.4	47
39	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
40	The Challenges of Low-Frequency Radio Polarimetry: Lessons from the Murchison Widefield Array. <i>Publications of the Astronomical Society of Australia</i> , 2017, 34, .	3.4	45
41	The High Time and Frequency Resolution Capabilities of the Murchison Widefield Array. <i>Publications of the Astronomical Society of Australia</i> , 2015, 32, .	3.4	44
42	High-Resolution Spatial and Timing Observations of Millisecond Pulsar PSR J0218+4232 with Chandra. <i>Astrophysical Journal</i> , 2002, 577, 917-922.	4.5	44
43	Geodetic Precession in PSR J1141+6545. <i>Astrophysical Journal</i> , 2005, 624, 906-913.	4.5	43
44	A LARGE-AREA SURVEY FOR RADIO PULSARS AT HIGH GALACTIC LATITUDES. <i>Astrophysical Journal</i> , 2009, 699, 2009-2016.	4.5	43
45	Polarimetric profiles of 27 millisecond pulsars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2004, 352, 804-814.	4.4	42
46	Measuring phased-array antenna beam patterns with high dynamic range for the Murchison Widefield Array using 137 MHz ORBCOMM satellites. <i>Radio Science</i> , 2015, 50, 614-629.	1.6	42
47	SCINTILLATION ARCS IN LOW-FREQUENCY OBSERVATIONS OF THE TIMING-ARRAY MILLISECOND PULSAR PSR J0437+4715. <i>Astrophysical Journal</i> , 2016, 818, 86.	4.5	42
48	Modelling of the spectral energy distribution of Fornax A: leptonic and hadronic production of high-energy emission from the radio lobes. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 446, 3478-3491.	4.4	41
49	Limits on low-frequency radio emission from southern exoplanets with the Murchison Widefield Array. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 446, 2560-2565.	4.4	39
50	The First Murchison Widefield Array low-frequency radio observations of cluster scale non-thermal emission: the case of Abell 3667. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 445, 330-346.	4.4	39
51	The Murchison Widefield Array Correlator. <i>Publications of the Astronomical Society of Australia</i> , 2015, 32, .	3.4	39
52	Discovery of Five Recycled Pulsars in a High Galactic Latitude Survey. <i>Astrophysical Journal</i> , 2007, 656, 408-413.	4.5	38
53	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
54	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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55	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
56	Time-domain and spectral properties of pulsars at 154 MHz. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 461, 908-921.	4.4	35
57	ON THE DETECTION AND TRACKING OF SPACE DEBRIS USING THE MURCHISON WIDEFIELD ARRAY. I. SIMULATIONS AND TEST OBSERVATIONS DEMONSTRATE FEASIBILITY. <i>Astronomical Journal</i> , 2013, 146, 103.	4.7	34
58	Modelling annual and orbital variations in the scintillation of the relativistic binary PSR J1141-6545. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 485, 4389-4403.	4.4	34
59	PSR J1022+1001: profile stability and precision timing. <i>Monthly Notices of the Royal Astronomical Society</i> , 2004, 355, 941-949.	4.4	32
60	LOW-FREQUENCY OBSERVATIONS OF THE MOON WITH THE MURCHISON WIDEFIELD ARRAY. <i>Astronomical Journal</i> , 2013, 145, 23.	4.7	31
61	Serendipitous discovery of a dying Giant Radio Galaxy associated with NGC 1534, using the Murchison Widefield Array. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 447, 2468-2478.	4.4	31
62	High-energy sources at low radio frequency: the Murchison Widefield Array view of Fermi blazars. <i>Astronomy and Astrophysics</i> , 2016, 588, A141.	5.1	31
63	PSR J0737-3039A: baseband timing and polarimetry. <i>Monthly Notices of the Royal Astronomical Society</i> , 2005, 362, 1267-1272.	4.4	30
64	Subtraction of point sources from interferometric radio images through an algebraic forward modelling scheme. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 413, 411-422.	4.4	30
65	Power spectrum analysis of ionospheric fluctuations with the Murchison Widefield Array. <i>Radio Science</i> , 2015, 50, 574-597.	1.6	30
66	WALLABY Early Science II. The NGC 7232 galaxy group. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 487, 5248-5262.	4.4	30
67	WALLABY Early Science IV. ASKAP imaging of the nearby galaxy IC 5201. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 488, 5352-5369.	4.4	28
68	A high reliability survey of discrete Epoch of Reionization foreground sources in the MWA EoRO field. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 461, 4151-4175.	4.4	27
69	Wavelet-based Characterization of Small-scale Solar Emission Features at Low Radio Frequencies. <i>Astrophysical Journal</i> , 2017, 843, 19.	4.5	26
70	Spectral Flattening at Low Frequencies in Crab Giant Pulses. <i>Astrophysical Journal</i> , 2017, 851, 20.	4.5	26
71	The Scintillation Velocity of the Relativistic Binary Pulsar PSR J1141-6545. <i>Astrophysical Journal</i> , 2002, 574, L75-L78.	4.5	26
72	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

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73	Subtraction of Bright Point Sources from Synthesis Images of the Epoch of Reionization. Publications of the Astronomical Society of Australia, 2011, 28, 46-57.	3.4	24
74	Quantifying ionospheric effects on time-domain astrophysics with the Murchison Widefield Array. Monthly Notices of the Royal Astronomical Society, 2015, 453, 2732-2747.	4.4	24
75	Spectral Energy Distribution and Radio Halo of NGC 253 at Low Radio Frequencies. Astrophysical Journal, 2017, 838, 68.	4.5	23
76	Radio polarization measurements from RRAT J1819 ⁺ 1458. Monthly Notices of the Royal Astronomical Society: Letters, 2009, 396, L95-L99.	3.3	22
77	Surveillance of Space using passive radar and the Murchison Widefield Array. , 2017, , .		21
78	A multifrequency radio continuum study of the Magellanic Clouds – I. Overall structure and star formation rates. Monthly Notices of the Royal Astronomical Society, 2018, 480, 2743-2756.	4.4	21
79	A Study of Giant Pulses from PSR J1824 ⁺ 2452A. Astrophysical Journal, 2006, 653, 580-586.	4.5	21
80	A new layout optimization technique for interferometric arrays, applied to the Murchison Widefield Array. Monthly Notices of the Royal Astronomical Society, 2012, 425, 1781-1788.	4.4	20
81	Metacomputing across intercontinental networks. Future Generation Computer Systems, 2001, 17, 911-918.	7.5	19
82	The giant lobes of Centaurus A observed at 118 ⁺ MHz with the Murchison Widefield Array. Monthly Notices of the Royal Astronomical Society, 2013, 436, 1286-1301.	4.4	19
83	MURCHISON WIDEFIELD ARRAY OBSERVATIONS OF ANOMALOUS VARIABILITY: A SERENDIPITOUS NIGHT-TIME DETECTION OF INTERPLANETARY SCINTILLATION. Astrophysical Journal Letters, 2015, 809, L12.	8.3	19
84	The Magnetic Field of the Solar Corona from Pulsar Observations. Solar Physics, 2007, 245, 109-120.	2.5	17
85	THE LOW-FREQUENCY CHARACTERISTICS OF PSR J0437 ⁺ 4715 OBSERVED WITH THE MURCHISON WIDE-FIELD ARRAY. Astrophysical Journal Letters, 2014, 791, L32.	8.3	17
86	A digital-receiver for the MurchisonWidefield Array. Experimental Astronomy, 2015, 39, 73-93.	3.7	17
87	A Census of Southern Pulsars at 185 MHz. Publications of the Astronomical Society of Australia, 2017, 34, .	3.4	17
88	Observations of Low-frequency Radio Emission from Millisecond Pulsars and Multipath Propagation in the Interstellar Medium. Astrophysical Journal, Supplement Series, 2018, 238, 1.	7.7	17
89	A Large-Scale, Low-Frequency Murchison Widefield Array Survey of Galactic H ⁺ Regions between 260 < i> < /i> < /i> < /i> 340. Publications of the Astronomical Society of Australia, 2016, 33, .	3.4	16
90	The Murchison Widefield Array: solar science with the low frequency SKA Precursor. Journal of Physics: Conference Series, 2013, 440, 012033.	0.4	15

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91	DELAY SPECTRUM WITH PHASE-TRACKING ARRAYS: EXTRACTING THE H I POWER SPECTRUM FROM THE EPOCH OF REIONIZATION. <i>Astrophysical Journal</i> , 2016, 833, 213.	4.5	15
92	MWA tied-array processing I: Calibration and beamformation. <i>Publications of the Astronomical Society of Australia</i> , 2019, 36, .	3.4	15
93	MWA tied-array processing II: Polarimetric verification and analysis of two bright southern pulsars. <i>Publications of the Astronomical Society of Australia</i> , 2019, 36, .	3.4	15
94	A neutral hydrogen distance limit to the relativistic binary PSR J1141-6545. <i>Monthly Notices of the Royal Astronomical Society</i> , 2002, 337, 409-412.	4.4	13
95	Enabling a high throughput real time data pipeline for a large radio telescope array with GPUs. <i>Computer Physics Communications</i> , 2010, 181, 1707-1714.	7.5	13
96	Ionospheric Modelling using GPS to Calibrate the MWA. I: Comparison of First Order Ionospheric Effects between GPS Models and MWA Observations. <i>Publications of the Astronomical Society of Australia</i> , 2015, 32, .	3.4	13
97	SIMULTANEOUS OBSERVATIONS OF GIANT PULSES FROM THE CRAB PULSAR, WITH THE MURCHISON WIDEFIELD ARRAY AND PARKES RADIO TELESCOPE: IMPLICATIONS FOR THE GIANT PULSE EMISSION MECHANISM. <i>Astrophysical Journal</i> , 2015, 809, 51.	4.5	12
98	An analysis of the halo and relic radio emission from Abell 3376 from Murchison Widefield Array observations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 451, 4207-4214.	4.4	12
99	Probing Pulsar Scattering between 120 and 280 MHz with the MWA. <i>Astrophysical Journal</i> , 2019, 874, 179.	4.5	12
100	Discovery of a Steep-spectrum Low-luminosity Pulsar with the Murchison Widefield Array. <i>Astrophysical Journal Letters</i> , 2021, 911, L26.	8.3	12
101	BEAM-FORMING ERRORS IN MURCHISON WIDEFIELD ARRAY PHASED ARRAY ANTENNAS AND THEIR EFFECTS ON EPOCH OF REIONIZATION SCIENCE. <i>Astrophysical Journal</i> , 2016, 820, 44.	4.5	11
102	Hunting for Radio Emission from the Intermittent Pulsar J1107-5907 at Low Frequencies. <i>Astrophysical Journal</i> , 2018, 869, 134.	4.5	11
103	The emission and scintillation properties of RRAT J2325+0530 at 154 MHz and 1.4 GHz. <i>Publications of the Astronomical Society of Australia</i> , 2019, 36, .	3.4	11
104	High-precision timing of PSR J1600+3053. <i>Monthly Notices of the Royal Astronomical Society</i> , 2006, 371, 337-342.	4.4	10
105	STUDY OF REDSHIFTED H I FROM THE EPOCH OF REIONIZATION WITH DRIFT SCAN. <i>Astrophysical Journal</i> , 2014, 793, 28.	4.5	10
106	A Matched Filter Technique for Slow Radio Transient Detection and First Demonstration with the Murchison Widefield Array. <i>Astronomical Journal</i> , 2017, 153, 98.	4.7	9
107	The Murchison Widefield Array Transients Survey (MWATS). A search for low frequency variability in a bright Southern hemisphere sample. <i>Monthly Notices of the Royal Astronomical Society</i> , 0, , .	4.4	9
108	The radio spectral energy distribution of infrared-faint radio sources. <i>Astronomy and Astrophysics</i> , 2016, 593, A130.	5.1	8

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109	Ionospheric Modelling using GPS to Calibrate the MWA. II: Regional Ionospheric Modelling using GPS and GLONASS to Estimate Ionospheric Gradients. Publications of the Astronomical Society of Australia, 2016, 33, .	3.4	8
110	MWA tied-array processing III: Microsecond time resolution via a polyphase synthesis filter. Publications of the Astronomical Society of Australia, 2020, 37, .	3.4	6
111	A High Time-resolution Study of the Millisecond Pulsar J2241-5236 at Frequencies Below 300 MHz. Astrophysical Journal, 2019, 882, 133.	4.5	6
112	The Problems and the Solutions of the Metacomputing Experiment in SC99. Lecture Notes in Computer Science, 2000, , 22-31.	1.3	4
113	An Ultra-High Time Resolution Cosmic-Ray Detection Mode for the Murchison Widefield Array. Journal of Astronomical Instrumentation, 2021, 10, .	1.5	3
114	MWA tied-array processing IV: A multi-pixel beamformer for pulsar surveys and ionospheric corrected localisation. Publications of the Astronomical Society of Australia, 2022, 39, .	3.4	3
115	Coherent De-dispersion Observations at Jodrell Bank. International Astronomical Union Colloquium, 2000, 177, 281-282.	0.1	2
116	DIRECTION-DEPENDENT POLARIZED PRIMARY BEAMS IN WIDE-FIELD SYNTHESIS IMAGING. Journal of Astronomical Instrumentation, 2012, 01, 1250003.	1.5	2
117	Observing the Sun with the Murchison Widefield Array. , 2014, , .		2
118	Drifting sub-pulses in two newly discovered pulsars. Monthly Notices of the Royal Astronomical Society, 2001, 328, 911-913.	4.4	1
119	On the detectability of the hydrogen 3-cm fine-structure line from the epoch of reionization. Monthly Notices of the Royal Astronomical Society, 2008, , .	4.4	1
120	High time resolution radio astronomy with low-frequency interferometric arrays. , 2014, , .		0
121	First look Murchison Widefield Array observations of Abell 3667. , 2014, , .		0
122	Waves in the sky: Probing the ionosphere with the Murchison Widefield Array. , 2015, , .		0