

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	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
2	An Ultra-High Time Resolution Cosmic-Ray Detection Mode for the Murchison Widefield Array. Journal of Astronomical Instrumentation, 2021, 10, .	1.5	3
3	Discovery of a Steep-spectrum Low-luminosity Pulsar with the Murchison Widefield Array. Astrophysical Journal Letters, 2021, 911, L26.	8.3	12
4	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
5	MWA tied-array processing I: Calibration and beamformation. Publications of the Astronomical Society of Australia, 2019, 36, .	3.4	15
6	WALLABY Early Science â€“ IV. ASKAP H&#i imaging of the nearby galaxy IC&#o5201. Monthly Notices of the Royal Astronomical Society, 2019, 488, 5352-5369.	4.4	28
7	WALLABY Early Science â€“ II. The NGC 7232 galaxy group. Monthly Notices of the Royal Astronomical Society, 2019, 487, 5248-5262.	4.4	30
8	MWA tied-array processing II: Polarimetric verification and analysis of two bright southern pulsars. Publications of the Astronomical Society of Australia, 2019, 36, .	3.4	15
9	The emission and scintillation properties of RRAT J2325&~0530 at 154 MHz and 1.4 GHz. Publications of the Astronomical Society of Australia, 2019, 36, .	3.4	11
10	Probing Pulsar Scattering between 120 and 280 MHz with the MWA. Astrophysical Journal, 2019, 874, 179.	4.5	12
11	Modelling annual and orbital variations in the scintillation of the relativistic binary PSR J1141&~6545. Monthly Notices of the Royal Astronomical Society, 2019, 485, 4389-4403.	4.4	34
12	A High Time-resolution Study of the Millisecond Pulsar J2241&~5236 at Frequencies Below 300 MHz. Astrophysical Journal, 2019, 882, 133.	4.5	6
13	Low Altitude Solar Magnetic Reconnection, Type III Solar Radio Bursts, and X-ray Emissions. Scientific Reports, 2018, 8, 1676.	3.3	38
14	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
15	Hunting for Radio Emission from the Intermittent Pulsar J1107-5907 at Low Frequencies. Astrophysical Journal, 2018, 869, 134.	4.5	11
16	A multifrequency radio continuum study of the Magellanic Clouds â€“ I. Overall structure and star formation rates. Monthly Notices of the Royal Astronomical Society, 2018, 480, 2743-2756.	4.4	21
17	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
18	A Matched Filter Technique for Slow Radio Transient Detection and First Demonstration with the Murchison Widefield Array. Astronomical Journal, 2017, 153, 98.	4.7	9

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19	Spectral Energy Distribution and Radio Halo of NGC 253 at Low Radio Frequencies. <i>Astrophysical Journal</i> , 2017, 838, 68.	4.5	23
20	Surveillance of Space using passive radar and the Murchison Widefield Array. , 2017, , .		21
21	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
22	Wavelet-based Characterization of Small-scale Solar Emission Features at Low Radio Frequencies. <i>Astrophysical Journal</i> , 2017, 843, 19.	4.5	26
23	Low-frequency Observations of the Subpulse Drifter PSR J0034âˆ’0721 with the Murchison Widefield Array. <i>Astrophysical Journal</i> , 2017, 836, 224.	4.5	48
24	A Census of Southern Pulsars at 185 MHz. <i>Publications of the Astronomical Society of Australia</i> , 2017, 34, .	3.4	17
25	Spectral Flattening at Low Frequencies in Crab Giant Pulses. <i>Astrophysical Journal</i> , 2017, 851, 20.	4.5	26
26	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
27	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
28	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
29	SCINTILLATION ARCS IN LOW-FREQUENCY OBSERVATIONS OF THE TIMING-ARRAY MILLISECOND PULSAR PSR J0437â€“4715. <i>Astrophysical Journal</i> , 2016, 818, 86.	4.5	42
30	The radio spectral energy distribution of infrared-faint radio sources. <i>Astronomy and Astrophysics</i> , 2016, 593, A130.	5.1	8
31	A Large-Scale, Low-Frequency Murchison Widefield Array Survey of Galactic H Regions between 260 < i> < 340. <i>Publications of the Astronomical Society of Australia</i> , 2016, 33, .	3.4	16
32	Ionospheric Modelling using GPS to Calibrate the MWA. II: Regional Ionospheric Modelling using GPS and GLONASS to Estimate Ionospheric Gradients. <i>Publications of the Astronomical Society of Australia</i> , 2016, 33, .	3.4	8
33	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
34	FIRST SEASON MWA EOR POWER SPECTRUM RESULTS AT REDSHIFT 7. <i>Astrophysical Journal</i> , 2016, 833, 102.	4.5	147
35	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
36	A high reliability survey of discrete Epoch of Reionization foreground sources in the MWA EoR field. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 461, 4151-4175.	4.4	27

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37	THE MURCHISON WIDEFIELD ARRAY 21 cm POWER SPECTRUM ANALYSIS METHODOLOGY. <i>Astrophysical Journal</i> , 2016, 825, 114.	4.5	67
38	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
39	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
40	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
41	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
42	CHIPS: THE COSMOLOGICAL H I POWER SPECTRUM ESTIMATOR. <i>Astrophysical Journal</i> , 2016, 818, 139.	4.5	98
43	GLEAM: The GaLactic and Extragalactic All-Sky MWA Survey. <i>Publications of the Astronomical Society of Australia</i> , 2015, 32, .	3.4	221
44	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
45	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
46	Power spectrum analysis of ionospheric fluctuations with the Murchison Widefield Array. <i>Radio Science</i> , 2015, 50, 574-597.	1.6	30
47	Empirical covariance modeling for 21 cm power spectrum estimation: A method demonstration and new limits from early Murchison Widefield Array 128-tile data. <i>Physical Review D</i> , 2015, 91, .	4.7	99
48	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
49	BROADBAND SPECTRAL MODELING OF THE EXTREME GIGAHERTZ-PEAKED SPECTRUM RADIO SOURCE PKS B0008-421. <i>Astrophysical Journal</i> , 2015, 809, 168.	4.5	65
50	Waves in the sky: Probing the ionosphere with the Murchison Widefield Array. , 2015, , .		0
51	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
52	Quantifying ionospheric effects on time-domain astrophysics with the Murchison Widefield Array. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 453, 2732-2747.	4.4	24
53	Real-time imaging of density ducts between the plasmasphere and ionosphere. <i>Geophysical Research Letters</i> , 2015, 42, 3707-3714.	4.0	61
54	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

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55	A digital-receiver for the Murchison Widefield Array. <i>Experimental Astronomy</i> , 2015, 39, 73-93.	3.7	17
56	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
57	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
58	CONFIRMATION OF WIDE-FIELD SIGNATURES IN REDSHIFTED 21 cm POWER SPECTRA. <i>Astrophysical Journal Letters</i> , 2015, 807, L28.	8.3	73
59	The Murchison Widefield Array Correlator. <i>Publications of the Astronomical Society of Australia</i> , 2015, 32, .	3.4	39
60	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
61	The Low-Frequency Environment of the Murchison Widefield Array: Radio-Frequency Interference Analysis and Mitigation. <i>Publications of the Astronomical Society of Australia</i> , 2015, 32, .	3.4	107
62	FOREGROUNDS IN WIDE-FIELD REDSHIFTED 21 cm POWER SPECTRA. <i>Astrophysical Journal</i> , 2015, 804, 14.	4.5	122
63	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
64	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
65	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
66	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
67	wsclean: an implementation of a fast, generic wide-field imager for radio astronomy. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 444, 606-619.	4.4	562
68	STUDY OF REDSHIFTED H I FROM THE EPOCH OF REIONIZATION WITH DRIFT SCAN. <i>Astrophysical Journal</i> , 2014, 793, 28.	4.5	10
69	High time resolution radio astronomy with low-frequency interferometric arrays. , 2014, , .		0
70	First look Murchison Widefield Array observations of Abell 3667. , 2014, , .		0
71	Observing the Sun with the Murchison Widefield Array. , 2014, , .		2
72	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

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73	The Murchison Widefield Array Commissioning Survey: A Low-Frequency Catalogue of 14 110 Compact Radio Sources over 6 100 Square Degrees. Publications of the Astronomical Society of Australia, 2014, 31, .	3.4	62
74	Science with the Murchison Widefield Array. Publications of the Astronomical Society of Australia, 2013, 30, .	3.4	260
75	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
76	The EoR sensitivity of the Murchison Widefield Array. Monthly Notices of the Royal Astronomical Society: Letters, 2013, 429, L5-L9.	3.3	62
77	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
78	LOW-FREQUENCY OBSERVATIONS OF THE MOON WITH THE MURCHISON WIDEFIELD ARRAY. Astronomical Journal, 2013, 145, 23.	4.7	31
79	A 189 MHz, 2400 deg ² POLARIZATION SURVEY WITH THE MURCHISON WIDEFIELD ARRAY 32-ELEMENT PROTOTYPE. Astrophysical Journal, 2013, 771, 105.	4.5	79
80	ON THE DETECTION AND TRACKING OF SPACE DEBRIS USING THE MURCHISON WIDEFIELD ARRAY. I. SIMULATIONS AND TEST OBSERVATIONS DEMONSTRATE FEASIBILITY. Astronomical Journal, 2013, 146, 103.	4.7	34
81	The Murchison Widefield Array: solar science with the low frequency SKA Precursor. Journal of Physics: Conference Series, 2013, 440, 012033.	0.4	15
82	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
83	DIRECTION-DEPENDENT POLARIZED PRIMARY BEAMS IN WIDE-FIELD SYNTHESIS IMAGING. Journal of Astronomical Instrumentation, 2012, 01, 1250003.	1.5	2
84	FIRST LIGHT FOR THE FIRST STATION OF THE LONG WAVELENGTH ARRAY. Journal of Astronomical Instrumentation, 2012, 01, .	1.5	116
85	FAST HOLOGRAPHIC DECONVOLUTION: A NEW TECHNIQUE FOR PRECISION RADIO INTERFEROMETRY. Astrophysical Journal, 2012, 759, 17.	4.5	76
86	LOW-FREQUENCY IMAGING OF FIELDS AT HIGH GALACTIC LATITUDE WITH THE MURCHISON WIDEFIELD ARRAY 32 ELEMENT PROTOTYPE. Astrophysical Journal, 2012, 755, 47.	4.5	25
87	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
88	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
89	FIRST SPECTROSCOPIC IMAGING OBSERVATIONS OF THE SUN AT LOW RADIO FREQUENCIES WITH THE MURCHISON WIDEFIELD ARRAY PROTOTYPE. Astrophysical Journal Letters, 2011, 728, L27.	8.3	38
90	Subtraction of point sources from interferometric radio images through an algebraic forward modelling scheme. Monthly Notices of the Royal Astronomical Society, 2011, 413, 411-422.	4.4	30

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91	Enabling a high throughput real time data pipeline for a large radio telescope array with GPUs. Computer Physics Communications, 2010, 181, 1707-1714.	7.5	13
92	Interferometric Imaging with the 32 Element Murchison Wide-Field Array. Publications of the Astronomical Society of the Pacific, 2010, 122, 1353-1366.	3.1	45
93	A LARGE-AREA SURVEY FOR RADIO PULSARS AT HIGH GALACTIC LATITUDES. Astrophysical Journal, 2009, 699, 2009-2016.	4.5	43
94	The Murchison Widefield Array: Design Overview. Proceedings of the IEEE, 2009, 97, 1497-1506.	21.8	311
95	Radio polarization measurements from RRAT J1819 $\hat{\sim}$ 1458. Monthly Notices of the Royal Astronomical Society: Letters, 2009, 396, L95-L99.	3.3	22
96	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
97	Real-Time Calibration of the Murchison Widefield Array. IEEE Journal on Selected Topics in Signal Processing, 2008, 2, 707-717.	10.8	137
98	Discovery of Five Recycled Pulsars in a High Galactic Latitude Survey. Astrophysical Journal, 2007, 656, 408-413.	4.5	38
99	Dispersion measure variations and their effect on precision pulsar timing. Monthly Notices of the Royal Astronomical Society, 2007, 378, 493-506.	4.4	121
100	Evidence for alignment of the rotation and velocity vectors in pulsars - II. Further data and emission heights. Monthly Notices of the Royal Astronomical Society, 2007, 381, 1625-1637.	4.4	65
101	The Magnetic Field of the Solar Corona from Pulsar Observations. Solar Physics, 2007, 245, 109-120.	2.5	17
102	Upper Bounds on the Low $\hat{\sim}$ Frequency Stochastic Gravitational Wave Background from Pulsar Timing Observations: Current Limits and Future Prospects. Astrophysical Journal, 2006, 653, 1571-1576.	4.5	289
103	High-precision baseband timing of 15 millisecond pulsars. Monthly Notices of the Royal Astronomical Society, 2006, 369, 1502-1520.	4.4	85
104	High-precision timing of PSR J1600 $\hat{\sim}$ 3053. Monthly Notices of the Royal Astronomical Society, 2006, 371, 337-342.	4.4	10
105	Green Bank Telescope Studies of Giant Pulses from Millisecond Pulsars. Astrophysical Journal, 2006, 640, 941-949.	4.5	55
106	A Study of Giant Pulses from PSR J1824 $\hat{\sim}$ 2452A. Astrophysical Journal, 2006, 653, 580-586.	4.5	21
107	The Mass of a Millisecond Pulsar. Astrophysical Journal, 2005, 629, L113-L116.	4.5	94
108	A Search for Giant Pulses from Millisecond Pulsars. Astrophysical Journal, 2005, 625, 951-956.	4.5	52

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109	PSR J0737-3039A: baseband timing and polarimetry. Monthly Notices of the Royal Astronomical Society, 2005, 362, 1267-1272.	4.4	30
110	Geodetic Precession in PSR J1141-6545. Astrophysical Journal, 2005, 624, 906-913.	4.5	43
111	Polarimetric profiles of 27 millisecond pulsars. Monthly Notices of the Royal Astronomical Society, 2004, 352, 804-814.	4.4	42
112	PSR J1022+1001: profile stability and precision timing. Monthly Notices of the Royal Astronomical Society, 2004, 355, 941-949.	4.4	32
113	PSR J1909-3744: A Binary Millisecond Pulsar with a Very Small Duty Cycle. Astrophysical Journal, 2003, 599, L99-L102.	4.5	57
114	Self-Consistency of Relativistic Observables with General Relativity in the White Dwarf-Neutron Star Binary PSR J1141-6545. Astrophysical Journal, 2003, 595, L49-L52.	4.5	66
115	A neutral hydrogen distance limit to the relativistic binary PSR J1141-6545. Monthly Notices of the Royal Astronomical Society, 2002, 337, 409-412.	4.4	13
116	The Scintillation Velocity of the Relativistic Binary Pulsar PSR J1141-6545. Astrophysical Journal, 2002, 574, L75-L78.	4.5	26
117	High-Resolution Spatial and Timing Observations of Millisecond Pulsar PSR J0218+4232 with Chandra. Astrophysical Journal, 2002, 577, 917-922.	4.5	44
118	Metacomputing across intercontinental networks. Future Generation Computer Systems, 2001, 17, 911-918.	7.5	19
119	Drifting sub-pulses in two newly discovered pulsars. Monthly Notices of the Royal Astronomical Society, 2001, 328, 911-913.	4.4	1
120	Coherent De-dispersion Observations at Jodrell Bank. International Astronomical Union Colloquium, 2000, 177, 281-282.	0.1	2
121	The Problems and the Solutions of the Metacomputing Experiment in SC99. Lecture Notes in Computer Science, 2000, , 22-31.	1.3	4
122	The Murchison Widefield Array Transients Survey (MWATS). A search for low frequency variability in a bright Southern hemisphere sample. Monthly Notices of the Royal Astronomical Society, 0, , .	4.4	9