

Willem van Straten

List of Publications by Year in descending order

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Version: 2024-02-01

165
papers

13,191
citations

16451

64
h-index

23533

111
g-index

168
all docs

168
docs citations

168
times ranked

5585
citing authors

#	ARTICLE	IF	CITATIONS
1	A Population of Fast Radio Bursts at Cosmological Distances. <i>Science</i> , 2013, 341, 53-56.	12.6	803
2	psrchive and psrfits: An Open Approach to Radio Pulsar Data Storage and Analysis. <i>Publications of the Astronomical Society of Australia</i> , 2004, 21, 302-309.	3.4	664
3	The International Pulsar Timing Array project: using pulsars as a gravitational wave detector. <i>Classical and Quantum Gravity</i> , 2010, 27, 084013.	4.0	494
4	FRBCAT: The Fast Radio Burst Catalogue. <i>Publications of the Astronomical Society of Australia</i> , 2016, 33, .	3.4	420
5	Gravitational waves from binary supermassive black holes missing in pulsar observations. <i>Science</i> , 2015, 349, 1522-1525.	12.6	386
6	DSPSR: Digital Signal Processing Software for Pulsar Astronomy. <i>Publications of the Astronomical Society of Australia</i> , 2011, 28, 1-14.	3.4	365
7	The Parkes Pulsar Timing Array Project. <i>Publications of the Astronomical Society of Australia</i> , 2013, 30, .	3.4	350
8	The International Pulsar Timing Array: First data release. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 458, 1267-1288.	4.4	332
9	Pulsar Rotation Measures and the Large-scale Structure of the Galactic Magnetic Field. <i>Astrophysical Journal</i> , 2006, 642, 868-881.	4.5	309
10	Upper Bounds on the Low-frequency Stochastic Gravitational Wave Background from Pulsar Timing Observations: Current Limits and Future Prospects. <i>Astrophysical Journal</i> , 2006, 653, 1571-1576.	4.5	289
11	The High Time Resolution Universe Pulsar Survey - I. System configuration and initial discoveries. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010, 409, 619-627.	4.4	281
12	The host galaxy of a fast radio burst. <i>Nature</i> , 2016, 530, 453-456.	27.8	241
13	A real-time fast radio burst: polarization detection and multiwavelength follow-up. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 447, 246-255.	4.4	236
14	Timing analysis for 20 millisecond pulsars in the Parkes Pulsar Timing Array. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 455, 1751-1769.	4.4	233
15	Precision Timing of PSR J0437 \hat{a} [~] 4715: An Accurate Pulsar Distance, a High Pulsar Mass, and a Limit on the Variation of Newton's Gravitational Constant. <i>Astrophysical Journal</i> , 2008, 679, 675-680.	4.5	229
16	Five new fast radio bursts from the HTRU high-latitude survey at Parkes: first evidence for two-component bursts. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2016, 460, L30-L34.	3.3	222
17	A test of general relativity from the three-dimensional orbital geometry of a binary pulsar. <i>Nature</i> , 2001, 412, 158-160.	27.8	181
18	Timing stability of millisecond pulsars and prospects for gravitational-wave detection. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009, 400, 951-968.	4.4	178

#	ARTICLE	IF	CITATIONS
19	Measurement and correction of variations in interstellar dispersion in high-precision pulsar timing. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 429, 2161-2174.	4.4	174
20	Development of a pulsar-based time-scale. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 427, 2780-2787.	4.4	163
21	The SURvey for Pulsars and Extragalactic Radio Bursts “ II. New FRB discoveries and their follow-up. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 475, 1427-1446.	4.4	156
22	A RADIO-LOUD MAGNETAR IN X-RAY QUIESCENCE. <i>Astrophysical Journal Letters</i> , 2010, 721, L33-L37.	8.3	153
23	Transformation of a Star into a Planet in a Millisecond Pulsar Binary. <i>Science</i> , 2011, 333, 1717-1720.	12.6	152
24	Spectral properties of 441 radio pulsars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 473, 4436-4458.	4.4	135
25	Gravitational-Wave Limits from Pulsar Timing Constrain Supermassive Black Hole Evolution. <i>Science</i> , 2013, 342, 334-337.	12.6	133
26	The Swinburne intermediate-latitude pulsar survey. <i>Monthly Notices of the Royal Astronomical Society</i> , 2001, 326, 358-374.	4.4	121
27	Dispersion measure variations and their effect on precision pulsar timing. <i>Monthly Notices of the Royal Astronomical Society</i> , 2007, 378, 493-506.	4.4	121
28	Alteration of the magnetosphere of the Vela pulsar during a glitch. <i>Nature</i> , 2018, 556, 219-222.	27.8	117
29	The first interferometric detections of fast radio bursts. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 468, 3746-3756.	4.4	115
30	Gravitational-Wave Cosmology across 29 Decades in Frequency. <i>Physical Review X</i> , 2016, 6, .	8.9	113
31	An ultra-wide bandwidth (704 to 4032 MHz) receiver for the Parkes radio telescope. <i>Publications of the Astronomical Society of Australia</i> , 2020, 37, .	3.4	113
32	MEASURING THE MASS OF SOLAR SYSTEM PLANETS USING PULSAR TIMING. <i>Astrophysical Journal Letters</i> , 2010, 720, L201-L205.	8.3	112
33	A study of multifrequency polarization pulse profiles of millisecond pulsars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 449, 3223-3262.	4.4	109
34	Revival of the Magnetar PSR J1622-4950: Observations with MeerKAT, Parkes, XMM-Newton, Swift, Chandra, and NuSTAR. <i>Astrophysical Journal</i> , 2018, 856, 180.	4.5	108
35	The MeerKAT telescope as a pulsar facility: System verification and early science results from MeerTime. <i>Publications of the Astronomical Society of Australia</i> , 2020, 37, .	3.4	108
36	RADIO DETECTION OF LAT PSRs J1741-2054 AND J2032+4127: NO LONGER JUST GAMMA-RAY PULSARS. <i>Astrophysical Journal</i> , 2009, 705, 1-13.	4.5	107

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37	The Parkes Pulsar Timing Array project: second data release. Publications of the Astronomical Society of Australia, 2020, 37, .	3.4	107
38	<scp>psrchive</scp> and <scp>psrfits</scp>: Definition of the Stokes Parameters and Instrumental Basis Conventions. Publications of the Astronomical Society of Australia, 2010, 27, 104-109.	3.4	105
39	An all-sky search for continuous gravitational waves in the Parkes Pulsar Timing Array data set. Monthly Notices of the Royal Astronomical Society, 2014, 444, 3709-3720.	4.4	98
40	Pulsar Rotation Measures and Large-scale Magnetic Field Reversals in the Galactic Disk. Astrophysical Journal, Supplement Series, 2018, 234, 11.	7.7	96
41	Limitations in timing precision due to single-pulse shape variability in millisecond pulsars. Monthly Notices of the Royal Astronomical Society, 2014, 443, 1463-1481.	4.4	94
42	The Commensal Real-Time ASKAP Fast-Transients (CRAFT) Survey. Publications of the Astronomical Society of Australia, 2010, 27, 272-282.	3.4	93
43	The sensitivity of the Parkes Pulsar Timing Array to individual sources of gravitational waves. Monthly Notices of the Royal Astronomical Society, 2010, 407, 669-680.	4.4	89
44	High Time Resolution Observations of the Vela Pulsar. Astrophysical Journal, 2001, 549, L101-L104.	4.5	86
45	High-resolution single-pulse studies of the Vela pulsar. Monthly Notices of the Royal Astronomical Society, 2002, 334, 523-532.	4.4	82
46	From spin noise to systematics: stochastic processes in the first International Pulsar Timing Array data release. Monthly Notices of the Royal Astronomical Society, 2016, 458, 2161-2187.	4.4	82
47	The SURvey for Pulsars and Extragalactic Radio Bursts â€” I. Survey description and overview. Monthly Notices of the Royal Astronomical Society, 2018, 473, 116-135.	4.4	82
48	Radio Astronomical Polarimetry and Pointâ€”Source Calibration. Astrophysical Journal, Supplement Series, 2004, 152, 129-135.	7.7	80
49	Gravitational-Wave Detection Using Pulsars: Status of the Parkes Pulsar Timing Array Project. Publications of the Astronomical Society of Australia, 2009, 26, 103-109.	3.4	79
50	Radio emission evolution, polarimetry and multifrequency single pulse analysis of the radio magnetar PSRâ€”J1622âˆ”4950. Monthly Notices of the Royal Astronomical Society, 2012, 422, 2489-2500.	4.4	79
51	Searching for gravitational wave memory bursts with the Parkes Pulsar Timing Array. Monthly Notices of the Royal Astronomical Society, 2015, 446, 1657-1671.	4.4	79
52	The High Time Resolution Universe Pulsar Survey â€” XIII. PSR J1757âˆ”1854, the most accelerated binary pulsar. Monthly Notices of the Royal Astronomical Society: Letters, 2018, 475, L57-L61.	3.3	79
53	The High Time Resolution Universe Pulsar Survey - V. Single-pulse energetics and modulation properties of 315 pulsars. Monthly Notices of the Royal Astronomical Society, 2012, 423, 1351-1367.	4.4	77
54	High signal-to-noise ratio observations and the ultimate limits of precision pulsar timing. Monthly Notices of the Royal Astronomical Society, 2011, 418, 1258-1271.	4.4	75

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55	PULSAR OBSERVATIONS OF EXTREME SCATTERING EVENTS. <i>Astrophysical Journal</i> , 2015, 808, 113.	4.5	75
56	Giant pulses from the Crab pulsar. <i>Astronomy and Astrophysics</i> , 2010, 515, A36.	5.1	74
57	PuMa-II: A Wide Band Pulsar Machine for the Westerbork Synthesis Radio Telescope. <i>Publications of the Astronomical Society of the Pacific</i> , 2008, 120, 191-202.	3.1	73
58	The High Time Resolution Universe Pulsar Survey - III. Single-pulse searches and preliminary analysis. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 416, 2465-2476.	4.4	73
59	SPINN: a straightforward machine learning solution to the pulsar candidate selection problem. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 443, 1651-1662.	4.4	72
60	Parkes Pulsar Timing Array constraints on ultralight scalar-field dark matter. <i>Physical Review D</i> , 2018, 98, .	4.7	72
61	A survey of FRB fields: limits on repeatability. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 454, 457-462.	4.4	71
62	The Parkes Observatory Pulsar Data Archive. <i>Publications of the Astronomical Society of Australia</i> , 2011, 28, 202-214.	3.4	69
63	Polarization observations of 20 millisecond pulsars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 414, 2087-2100.	4.4	69
64	The High Time Resolution Universe Pulsar Survey – VI. An artificial neural network and timing of 75 pulsars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 427, 1052-1065.	4.4	69
65	Are the distributions of fast radio burst properties consistent with a cosmological population?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 458, 708-717.	4.4	69
66	Fast Radio Transient searches with UTMOST at 843 MHz. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 458, 718-725.	4.4	65
67	The High Time Resolution Universe Pulsar Survey – VIII. The Galactic millisecond pulsar population. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 434, 1387-1397.	4.4	64
68	Timing of young radio pulsars – I. Timing noise, periodic modulation, and proper motion. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 489, 3810-3826.	4.4	63
69	Radio Astronomical Polarimetry and High-Precision Pulsar Timing. <i>Astrophysical Journal</i> , 2006, 642, 1004-1011.	4.5	61
70	Polarized Radio Emission from the Magnetar XTE J1810-197. <i>Astrophysical Journal</i> , 2007, 659, L37-L40.	4.5	61
71	HIGH-FIDELITY RADIO ASTRONOMICAL POLARIMETRY USING A MILLISECOND PULSAR AS A POLARIZED REFERENCE SOURCE. <i>Astrophysical Journal, Supplement Series</i> , 2013, 204, 13.	7.7	61
72	Prospects for high-precision pulsar timing. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 417, 2916-2926.	4.4	58

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73	The High Time Resolution Universe Pulsar Survey â€“ XII. Galactic plane acceleration search and the discovery of 60 pulsars. Monthly Notices of the Royal Astronomical Society, 2015, 450, 2922-2947.	4.4	58
74	AN ABSENCE OF FAST RADIO BURSTS AT INTERMEDIATE GALACTIC LATITUDES. Astrophysical Journal Letters, 2014, 789, L26.	8.3	56
75	OBSERVATIONS AND MODELING OF RELATIVISTIC SPIN PRECESSION IN PSR J1141â€“6545. Astrophysical Journal, 2010, 710, 1694-1709.	4.5	54
76	On detection of the stochastic gravitational-wave background using the Parkes pulsar timing array. Monthly Notices of the Royal Astronomical Society, 2011, 414, 1777-1787.	4.4	54
77	The UTMOST pulsar timing programme I: Overview and first results. Monthly Notices of the Royal Astronomical Society, 2019, 484, 3691-3712.	4.4	52
78	Lenseâ€“Thirring frame dragging induced by a fast-rotating white dwarf in a binary pulsar system. Science, 2020, 367, 577-580.	12.6	51
79	The High Time Resolution Universe pulsar survey - X. Discovery of four millisecond pulsars and updated timing solutions of a further 12. Monthly Notices of the Royal Astronomical Society, 2014, 439, 1865-1883.	4.4	50
80	The SUrvey for Pulsars and Extragalactic Radio Bursts â€“ III. Polarization properties of FRBs 160102 and 151230. Monthly Notices of the Royal Astronomical Society, 2018, 478, 2046-2055.	4.4	48
81	RADIO DISAPPEARANCE OF THE MAGNETAR XTE J1810â€“197 AND CONTINUED X-RAY TIMING. Astrophysical Journal, 2016, 820, 110.	4.5	47
82	A polarized fast radio burst at low Galactic latitude. Monthly Notices of the Royal Astronomical Society, 0, , .	4.4	45
83	The High Time Resolution Universe Pulsar Survey - IV. Discovery and polarimetry of millisecond pulsars. Monthly Notices of the Royal Astronomical Society, 2012, 419, 1752-1765.	4.4	43
84	Polarimetric profiles of 27 millisecond pulsars. Monthly Notices of the Royal Astronomical Society, 2004, 352, 804-814.	4.4	42
85	Dispersion measure variations in a sample of 168 pulsars. Monthly Notices of the Royal Astronomical Society, 2013, 435, 1610-1617.	4.4	42
86	The High Time Resolution Universe Pulsar Survey - II. Discovery of five millisecond pulsars. Monthly Notices of the Royal Astronomical Society, 2011, 416, 2455-2464.	4.4	41
87	Precision Orbital Dynamics from Interstellar Scintillation Arcs for PSR J0437â€“4715. Astrophysical Journal, 2020, 904, 104.	4.5	39
88	The High Time Resolution Universe survey â€“ XIV. Discovery of 23 pulsars through GPU-accelerated reprocessing. Monthly Notices of the Royal Astronomical Society, 2019, 483, 3673-3685.	4.4	38
89	POLARIZATION OBSERVATIONS OF 100 PULSARS AT 774 MHz BY THE GREEN BANK TELESCOPE. Astrophysical Journal, Supplement Series, 2009, 181, 557-571.	7.7	37
90	Studying the Solar system with the International Pulsar Timing Array. Monthly Notices of the Royal Astronomical Society, 2018, 481, 5501-5516.	4.4	36

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91	THE DISTURBANCE OF A MILLISECOND PULSAR MAGNETOSPHERE. <i>Astrophysical Journal Letters</i> , 2016, 828, L1.	8.3	33
92	Timing of young radio pulsars – II. Braking indices and their interpretation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 494, 2012-2026.	4.4	33
93	Commensal discovery of four fast radio bursts during Parkes Pulsar Timing Array observations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 488, 868-875.	4.4	31
94	A fast radio burst with frequency-dependent polarization detected during Breakthrough Listen observations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 486, 3636-3646.	4.4	31
95	The Thousand-Pulsar-Array programme on MeerKAT – III. Giant pulse characteristics of PSR J0540+6919. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 505, 4468-4482.	4.4	30
96	Timing, polarimetry and physics of the bright, nearby millisecond pulsar PSR J0437+4715 – a single-pulse perspective. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 441, 3148-3160.	4.4	29
97	The relativistic binary programme on MeerKAT: science objectives and first results. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 504, 2094-2114.	4.4	27
98	Status update of the Parkes pulsar timing array. <i>Classical and Quantum Gravity</i> , 2010, 27, 084015.	4.0	26
99	CYCLIC SPECTROSCOPY OF THE MILLISECOND PULSAR, B1937+21. <i>Astrophysical Journal</i> , 2013, 779, 99.	4.5	26
100	The Scintillation Velocity of the Relativistic Binary Pulsar PSR J1141+6545. <i>Astrophysical Journal</i> , 2002, 574, L75-L78.	4.5	26
101	A SHAPIRO DELAY DETECTION IN THE BINARY SYSTEM HOSTING THE MILLISECOND PULSAR PSR J1910+5959A. <i>Astrophysical Journal</i> , 2012, 760, 100.	4.5	25
102	The High Time Resolution Universe survey – XI. Discovery of five recycled pulsars and the optical detectability of survey white dwarf companions. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 446, 4019-4028.	4.4	25
103	PSR J2322+2650 – a low-luminosity millisecond pulsar with a planetary-mass companion. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 475, 469-477.	4.4	25
104	The SURvey for Pulsars and Extragalactic Radio Bursts – IV. Discovery and polarimetry of a 12.1-s radio pulsar. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 493, 1165-1177.	4.4	25
105	Measurements of pulse jitter and single-pulse variability in millisecond pulsars using MeerKAT. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 502, 407-422.	4.4	25
106	The High Time Resolution Universe Pulsar Survey – VII. Discovery of five millisecond pulsars and the different luminosity properties of binary and isolated recycled pulsars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 433, 259-269.	4.4	24
107	The MeerTime Pulsar Timing Array: A census of emission properties and timing potential. <i>Publications of the Astronomical Society of Australia</i> , 2022, 39, .	3.4	24
108	Interstellar holography. <i>Monthly Notices of the Royal Astronomical Society</i> , 2008, , ???-???	4.4	22

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109	Discovery and timing of the first 8gr8 Cygnus survey pulsars. <i>Astronomy and Astrophysics</i> , 2009, 498, 223-231.	5.1	22
110	Radio polarization measurements from RRAT J1819âˆ”1458. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2009, 396, L95-L99.	3.3	22
111	Improving the precision of pulsar timing through polarization statistics. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 430, 416-424.	4.4	22
112	The PULSE@Parkes Project: a New Observing Technique for Long-Term Pulsar Monitoring. <i>Publications of the Astronomical Society of Australia</i> , 2009, 26, 468-475.	3.4	21
113	Comparison of pulsar positions from timing and very long baseline astrometry. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, 425-434.	4.4	20
114	The High Time Resolution Universe Pulsar Survey â€” XVI. Discovery and timing of 40 pulsars from the southern Galactic plane. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 493, 1063-1087.	4.4	20
115	The thousand-pulsar-array programme on MeerKAT IV: Polarization properties of young, energetic pulsars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 505, 4483-4495.	4.4	20
116	The Thousand-Pulsar-Array programme on MeerKAT â€” V. Scattering analysis of single-component pulsars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 504, 1115-1128.	4.4	19
117	A Search for Submillisecond Pulsars. <i>Astrophysical Journal</i> , 2001, 560, 365-370.	4.5	18
118	HIPSR: A Digital Signal Processor for the Parkes 21-cm Multibeam Receiver. <i>Journal of Astronomical Instrumentation</i> , 2016, 05, .	1.5	18
119	Wide-band profile domain pulsar timing analysis. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 466, 3706-3727.	4.4	18
120	Pulsar Searches with the SKA. <i>Proceedings of the International Astronomical Union</i> , 2017, 13, 171-174.	0.0	18
121	A fast radio burst with a low dispersion measure. <i>Monthly Notices of the Royal Astronomical Society</i> , 0, , .	4.4	18
122	THE LOW-FREQUENCY CHARACTERISTICS OF PSR J0437â€”4715 OBSERVED WITH THE MURCHISON WIDE-FIELD ARRAY. <i>Astrophysical Journal Letters</i> , 2014, 791, L32.	8.3	17
123	Versatile directional searches for gravitational waves with Pulsar Timing Arrays. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 455, 3662-3673.	4.4	17
124	Observations of Low-frequency Radio Emission from Millisecond Pulsars and Multipath Propagation in the Interstellar Medium. <i>Astrophysical Journal, Supplement Series</i> , 2018, 238, 1.	7.7	17
125	Rotation measure variations for 20 millisecond pulsars. <i>Astrophysics and Space Science</i> , 2011, 335, 485-498.	1.4	16
126	The High Time Resolution Universe survey â€” IX. Polarimetry of long-period pulsars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 436, 3557-3572.	4.4	16

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127	The High Time Resolution Universe Pulsar Survey â€“ XVII. PSR J1325â”6253, a low eccentricity double neutron star system from an ultra-stripped supernova. Monthly Notices of the Royal Astronomical Society, 2022, 512, 5782-5792.	4.4	14
128	Radio Astronomical Polarimetry and Phaseâ€coherent Matrix Convolution. Astrophysical Journal, 2002, 568, 436-442.	4.5	13
129	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
130	THE STATISTICS OF RADIO ASTRONOMICAL POLARIMETRY: BRIGHT SOURCES AND HIGH TIME RESOLUTION. Astrophysical Journal, 2009, 694, 1413-1422.	4.5	13
131	Intrinsic instrumental polarization and high-precision pulsar timing. Monthly Notices of the Royal Astronomical Society, 2015, 453, 1489-1502.	4.4	13
132	Constraints on the magnetic field in the Galactic halo from globular cluster pulsars. Nature Astronomy, 2020, 4, 704-710.	10.1	13
133	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. Astrophysical Journal, 2015, 809, 51.	4.5	12
134	Toward an Empirical Theory of Pulsar Emission. XII. Exploring the Physical Conditions in Millisecond Pulsar Emission Regions. Astrophysical Journal, 2017, 845, 23.	4.5	12
135	Discovery of a Steep-spectrum Low-luminosity Pulsar with the Murchison Widefield Array. Astrophysical Journal Letters, 2021, 911, L26.	8.3	12
136	A suite of domain-specific visual languages for scientific software application modelling. , 2013, , .		11
137	The Statistics of Radio Astronomical Polarimetry: Disjoint, Superposed, and Composite Samples. Astrophysical Journal, 2017, 835, 293.	4.5	11
138	Relativistic Spin Precession in the Binary PSR J1141â”6545. Astrophysical Journal Letters, 2019, 873, L15.	8.3	11
139	DETECTION OF FAST TRANSIENTS WITH RADIO INTERFEROMETRIC ARRAYS. Astrophysical Journal, Supplement Series, 2013, 206, 2.	7.7	10
140	The High Time Resolution Universe Pulsar Survey â€“ XV. Completion of the intermediate-latitude survey with the discovery and timing of 25 further pulsars. Monthly Notices of the Royal Astronomical Society, 2019, 484, 5791-5801.	4.4	10
141	Performance of Oversampled Polyphase Filterbank Inversion via Fourier Transform. Journal of Astronomical Instrumentation, 2020, 09, .	1.5	8
142	Polarization studies of rotating radio transients. Monthly Notices of the Royal Astronomical Society, 2019, 487, 1191-1199.	4.4	7
143	The UTMOST survey for magnetars, intermittent pulsars, RRATs, and FRBs â€“ I. System description and overview. Monthly Notices of the Royal Astronomical Society, 2020, 492, 4752-4767.	4.4	6
144	The Thousand-Pulsar-Array programme on MeerKAT â€“ II. Observing strategy for pulsar monitoring with subarrays. Monthly Notices of the Royal Astronomical Society, 2021, 505, 4456-4467.	4.4	6

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145	Three-dimensional Tomography of the Galactic and Extragalactic Magnetoionic Medium with the SKA. , 2015, , .		5
146	Independent Discovery of a Nulling Pulsar with Unusual Subpulse Drifting Properties with the Murchison Widefield Array. <i>Astrophysical Journal</i> , 2022, 933, 210.	4.5	5
147	Base Band Data for Testing Interference Mitigation Algorithms. <i>Publications of the Astronomical Society of Australia</i> , 2001, 18, 105-113.	3.4	4
148	The polarization of the drifting sub-pulses from PSR B1919+21. <i>Astronomy and Astrophysics</i> , 0, , .	5.1	4
149	Detection of Frequency-dependent Dispersion Measure toward the Millisecond Pulsar J2241â€“5236 from Contemporaneous Wideband Observations. <i>Astrophysical Journal Letters</i> , 2022, 930, L27.	8.3	3
150	Pulsar Applications of the Caltech Parkes Swinburne Baseband Processing System. <i>International Astronomical Union Colloquium</i> , 2000, 177, 283-284.	0.1	2
151	Dispatch approaches for scheduling radio telescope observations. <i>Experimental Astronomy</i> , 2018, 46, 285-307.	3.7	2
152	High Precision Timing of PSR J0437â€“4715. <i>International Astronomical Union Colloquium</i> , 2000, 177, 73-76.	0.1	1
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