Ewan Barr

List of Publications by Year
in descending order

52 papers	2,778 citations	201674 27 h-index	189892 50 g-index
53 all docs	53 docs citations	53 times ranked	2401 citing authors

#	Article	IF	Citations
1	FRBCAT: The Fast Radio Burst Catalogue. Publications of the Astronomical Society of Australia, 2016, 33, .	3.4	420
2	A real-time fast radio burst: polarization detection and multiwavelength follow-up. Monthly Notices of the Royal Astronomical Society, 2015, 447, 246-255.	4.4	236
3	Five new fast radio bursts from the HTRU high-latitude survey at Parkes: first evidence for two-component bursts. Monthly Notices of the Royal Astronomical Society: Letters, 2016, 460, L30-L34.	3.3	222
4	The SUrvey for Pulsars and Extragalactic Radio Bursts â€“ II. New FRB discoveries and their follow-up. Monthly Notices of the Royal Astronomical Society, 2018, 475, 1427-1446.	4.4	156
5	Spectral properties of 441 radio pulsars. Monthly Notices of the Royal Astronomical Society, 2018, 473, 4436-4458.	4.4	135
6	The MeerKAT telescope as a pulsar facility: System verification and early science results from MeerTime. Publications of the Astronomical Society of Australia, 2020, 37, .	3.4	108
7	FRB microstructure revealed by the real-time detection of FRB170827. Monthly Notices of the Royal Astronomical Society, 2018, 478, 1209-1217.	4.4	107
8	The Northern High Time Resolution Universe pulsar survey â€“ I. Setup and initial discoveries. Monthly Notices of the Royal Astronomical Society, 2013, 435, 2234-2245.	4.4	91
9	The High Time Resolution Universe Pulsar Survey â€“ XIII. PSR J1757â^'1854, the most accelerated binary pulsar. Monthly Notices of the Royal Astronomical Society: Letters, 2018, 475, L57-L61.	3.3	79
10	SPINN: a straightforward machine learning solution to the pulsar candidate selection problem. Monthly Notices of the Royal Astronomical Society, 2014, 443, 1651-1662.	4.4	72
11	Are the distributions of fast radio burst properties consistent with a cosmological population?. Monthly Notices of the Royal Astronomical Society, 2016, 458, 708-717.	4.4	69
12	Fast Radio Transient searches with UTMOST at 843 MHz. Monthly Notices of the Royal Astronomical Society, 2016, 458, 718-725.	4.4	65
13	Discovery of a radio-emitting neutron star with an ultra-long spin period of 76â€‰s. Nature Astronomy, 2022, 6, 828-836.	10.1	63
14	The UTMOST: A Hybrid Digital Signal Processor Transforms the Molonglo Observatory Synthesis Telescope. Publications of the Astronomical Society of Australia, 2017, 34, .	3.4	59
15	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
16	The UTMOST pulsar timing programme I: Overview and first results. Monthly Notices of the Royal Astronomical Society, 2019, 484, 3691-3712.	4.4	52
17	peace: pulsar evaluation algorithm for candidate extraction â€“ a software package for post-analysis processing of pulsar survey candidates. Monthly Notices of the Royal Astronomical Society, 2013, 433, 688-694.	4.4	48
18	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

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19	Eight new millisecond pulsars from the first MeerKAT globular cluster census. Monthly Notices of the Royal Astronomical Society, 2021, 504, 1407-1426.	4.4	47
20	Pulsar searches of Fermi unassociated sources with the Effelsberg telescope. Monthly Notices of the Royal Astronomical Society, 2013, 429, 1633-1642.	4.4	46
21	Simultaneous multi-telescope observations of FRB 121102. Monthly Notices of the Royal Astronomical Society, 2020, 496, 4565-4573.	4.4	45
22	Optimal periodicity searching: revisiting the fast folding algorithm for large-scale pulsar surveys. Monthly Notices of the Royal Astronomical Society, 2020, 497, 4654-4671.	4.4	43
23	Discovery of a Gamma-Ray Black Widow Pulsar by GPU-accelerated Einstein@Home. Astrophysical Journal Letters, 2020, 902, L46.	8.3	42
24	A massive millisecond pulsar in an eccentric binary. Monthly Notices of the Royal Astronomical Society, 2017, 465, 1711-1719.	4.4	41
25	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
26	An investigation of pulsar searching techniques with the fast folding algorithm. Monthly Notices of the Royal Astronomical Society, 2017, 468, 1994-2010.	4.4	30
27	DISCOVERY OF A MILLISECOND PULSAR IN THE 5.4 DAY BINARY 3FGL J1417.5â€“4402: OBSERVING THE LATE PHASE OF PULSAR RECYCLING. Astrophysical Journal, 2016, 820, 6.	4.5	27
28	The relativistic binary programme on MeerKAT: science objectives and first results. Monthly Notices of the Royal Astronomical Society, 2021, 504, 2094-2114.	4.4	27
29	PSRâ€‰J2322â˜’2650 â€“ a low-luminosity millisecond pulsar with a planetary-mass companion. Monthly Notices of the Royal Astronomical Society, 2018, 475, 469-477.	4.4	25
30	The SUrvey for Pulsars and Extragalactic Radio Bursts â€“ IV. Discovery and polarimetry of a 12.1-s radio pulsar. Monthly Notices of the Royal Astronomical Society, 2020, 493, 1165-1177.	4.4	25
31	The High Time Resolution Universe Pulsar Survey â€“ XVI. Discovery and timing of 40 pulsars from the southern Galactic plane. Monthly Notices of the Royal Astronomical Society, 2020, 493, 1063-1087.	4.4	20
32	The Thousand-Pulsar-Array programme on MeerKAT â€“ VI. Pulse widths of a large and diverse sample of radio pulsars. Monthly Notices of the Royal Astronomical Society, 0, , .	4.4	19
33	A fast radio burst with a low dispersion measure. Monthly Notices of the Royal Astronomical Society, 0, , .	4.4	18
34	Discovery of ASKAP J173608.2â€“321635 as a Highly Polarized Transient Point Source with the Australian SKA Pathfinder. Astrophysical Journal, 2021, 920, 45.	4.5	18
35	Pulsar candidate identification using semi-supervised generative adversarial networks. Monthly Notices of the Royal Astronomical Society, 2021, 505, 1180-1194.	4.4	17
36	Wide Field Beamformed Observation with MeerKAT. Journal of Astronomical Instrumentation, 2021, 10, .	1.5	16

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37	The discovery of two mildly recycled binary pulsars in the Northern High Time Resolution Universe pulsar survey. Monthly Notices of the Royal Astronomical Society, 2017, 470, 4421-4433.	4.4	15
38	A Shapiro delay detection in the pulsar binary system PSRÂJ1811â€“2405. Monthly Notices of the Royal Astronomical Society, 2020, 493, 1261-1267.	4.4	15
39	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
40	Constraints on the magnetic field in the Galactic halo from globular cluster pulsars. Nature Astronomy, 2020, 4, 704-710.	10.1	13
41	Optical and radio astrometry of the galaxy associated with FRBÂ150418. Monthly Notices of the Royal Astronomical Society: Letters, 2016, 463, L36-L40.	3.3	12
42	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
43	Four pulsar discoveries in NGC 6624 by TRAPUM using MeerKAT. Monthly Notices of the Royal Astronomical Society, 2022, 513, 2292-2301.	4.4	10
44	The SUrvey for pulsars and extragalactic radio bursts V: recent discoveries and full timing solutions. Monthly Notices of the Royal Astronomical Society, 2020, 496, 4836-4848.	4.4	8
45	First discoveries and localizations of Fast Radio Bursts with MeerTRAP: real-time, commensal MeerKAT survey. Monthly Notices of the Royal Astronomical Society, 2022, 514, 1961-1974.	4.4	8
46	The dynamics of Galactic centre pulsars: constraining pulsar distances and intrinsic spin-down. Monthly Notices of the Royal Astronomical Society, 2019, 487, 1025-1039.	4.4	7
47	Polarization studies of rotating radio transients. Monthly Notices of the Royal Astronomical Society, 2019, 487, 1191-1199.	4.4	7
48	Discoveries and timing of pulsars in NGC 6440. Monthly Notices of the Royal Astronomical Society, 2022, 513, 1386-1399.	4.4	7
49	Coherent search for binary pulsars across all Five Keplerian parameters in radio observations using the template-bank algorithm. Monthly Notices of the Royal Astronomical Society, 2022, 511, 1265-1284.	4.4	7
50	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
51	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
52	First interferometric detections of Fast Radio Bursts. Proceedings of the International Astronomical Union, 2017, 13, 322-323.	0.0	0