Cherry Ng

List of Publications by Year
in descending order

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96 papers	8,587 citations	76326 40 h-index	42399 92 g-index
98 all docs	98 docs citations	98 times ranked	4755 citing authors

#	Article	IF	Citations
1	Relativistic Shapiro delay measurements of an extremely massive millisecond pulsar. Nature Astronomy, 2020, 4, 72-76.	10.1	1,065
2	A Population of Fast Radio Bursts at Cosmological Distances. Science, 2013, 341, 53-56.	12.6	803
3	The NANOGrav 12.5Âyr Data Set: Search for an Isotropic Stochastic Gravitational-wave Background. Astrophysical Journal Letters, 2020, 905, L34.	8.3	528
4	The NANOGrav 11-year Data Set: High-precision Timing of 45 Millisecond Pulsars. Astrophysical Journal, Supplement Series, 2018, 235, 37.	7.7	448
5	Refined Mass and Geometric Measurements of the High-mass PSR J0740+6620. Astrophysical Journal Letters, 2021, 915, L12.	8.3	416
6	The NANOGrav 11 Year Data Set: Pulsar-timing Constraints on the Stochastic Gravitational-wave Background. Astrophysical Journal, 2018, 859, 47.	4.5	331
7	CHIME/FRB Discovery of Eight New Repeating Fast Radio Burst Sources. Astrophysical Journal Letters, 2019, 885, L24.	8.3	302
8	A repeating fast radio burst source localized to a nearby spiral galaxy. Nature, 2020, 577, 190-194.	27.8	297
9	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
10	Periodic activity from a fast radio burst source. Nature, 2020, 582, 351-355.	27.8	231
11	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
12	The CHIME Fast Radio Burst Project: System Overview. Astrophysical Journal, 2018, 863, 48.	4.5	215
13	The First CHIME/FRB Fast Radio Burst Catalog. Astrophysical Journal, Supplement Series, 2021, 257, 59.	7.7	199
14	Nine New Repeating Fast Radio Burst Sources from CHIME/FRB. Astrophysical Journal Letters, 2020, 891, L6.	8.3	178
15	The International Pulsar Timing Array second data release: Search for an isotropic gravitational wave background. Monthly Notices of the Royal Astronomical Society, 2022, 510, 4873-4887.	4.4	174
16	A Nearby Repeating Fast Radio Burst in the Direction of M81. Astrophysical Journal Letters, 2021, 910, L18.	8.3	124
17	A repeating fast radio burst source in a globular cluster. Nature, 2022, 602, 585-589.	27.8	110
18	Fast Radio Burst Morphology in the First CHIME/FRB Catalog. Astrophysical Journal, 2021, 923, 1.	4.5	109

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19	The NANOGrav 11 yr Data Set: Limits on Gravitational Waves from Individual Supermassive Black Hole Binaries. Astrophysical Journal, 2019, 880, 116.	4.5	102
20	LOFAR Detection of 110â€“188 MHz Emission and Frequency-dependent Activity from FRB 20180916B. Astrophysical Journal Letters, 2021, 911, L3.	8.3	99
21	CHIME/FRB Detection of the Original Repeating Fast Radio Burst Source FRB 121102. Astrophysical Journal Letters, 2019, 882, L18.	8.3	98
22	The NANOGrav 12.5 yr Data Set: Observations and Narrowband Timing of 47 Millisecond Pulsars. Astrophysical Journal, Supplement Series, 2021, 252, 4.	7.7	98
23	Faint Repetitions from a Bright Fast Radio Burst Source. Astrophysical Journal Letters, 2019, 887, L30.	8.3	94
24	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
25	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
26	A systematic analysis of the broad ironÂKÎ±line in neutron-star LMXBs withXMM-Newton. Astronomy and Astrophysics, 2010, 522, A96.	5.1	74
27	A survey of FRB fields: limits on repeatability. Monthly Notices of the Royal Astronomical Society, 2015, 454, 457-462.	4.4	71
28	Detection of Repeating FRB 180916.J0158+65 Down to Frequencies of 300 MHz. Astrophysical Journal Letters, 2020, 896, L41.	8.3	70
29	The High Time Resolution Universe Pulsar Survey â€" VI. An artificial neural network and timing of 75 pulsars. Monthly Notices of the Royal Astronomical Society, 2012, 427, 1052-1065.	4.4	69
30	Astrophysics Milestones for Pulsar Timing Array Gravitational-wave Detection. Astrophysical Journal Letters, 2021, 911, L34.	8.3	66
31	The High Time Resolution Universe Pulsar Survey â€“VIII. The Galactic millisecond pulsar population. Monthly Notices of the Royal Astronomical Society, 2013, 434, 1387-1397.	4.4	64
32	The NANOGrav 12.5 yr Data Set: Wideband Timing of 47 Millisecond Pulsars. Astrophysical Journal, Supplement Series, 2021, 252, 5.	7.7	64
33	Searching for Gravitational Waves from Cosmological Phase Transitions with the NANOGrav 12.5-Year Dataset. Physical Review Letters, 2021, 127, 251302.	7.8	62
34	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
35	AN ABSENCE OF FAST RADIO BURSTS AT INTERMEDIATE GALACTIC LATITUDES. Astrophysical Journal Letters, 2014, 789, L26.	8.3	56
36	A Second Chromatic Timing Event of Interstellar Origin toward PSR J1713+0747. Astrophysical Journal, 2018, 861, 132.	4.5	51

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37	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
38	Modeling the Uncertainties of Solar System Ephemerides for Robust Gravitational-wave Searches with Pulsar-timing Arrays. Astrophysical Journal, 2020, 893, 112.	4.5	49
39	Burst timescales and luminosities as links between young pulsars and fast radio bursts. Nature Astronomy, 2022, 6, 393-401.	10.1	46
40	PSR J1024â€“0719: A MILLISECOND PULSAR IN AN UNUSUAL LONG-PERIOD ORBIT. Astrophysical Journal, 2016, 826, 86.	4.5	45
41	The CHIME Pulsar Project: System Overview. Astrophysical Journal, Supplement Series, 2021, 255, 5.	7.7	40
42	CHIME/FRB Catalog 1 Results: Statistical Cross-correlations with Large-scale Structure. Astrophysical Journal, 2021, 922, 42.	4.5	40
43	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
44	Sub-second periodicity in a fast radio burst. Nature, 2022, 607, 256-259.	27.8	37
45	The NANOGrav 11 yr Data Set: Limits on Gravitational Wave Memory. Astrophysical Journal, 2020, 889, 38.	4.5	36
46	EINSTEIN@HOME DISCOVERY OF FOUR YOUNG GAMMA-RAY PULSARS IN FERMI LAT DATA. Astrophysical Journal Letters, 2013, 779, L11.	8.3	34
47	The Breakthrough Listen Search For Intelligent Life Near the Galactic Center. I.. Astronomical Journal, 2021, 162, 33.	4.7	34
48	Which bright fast radio bursts repeat?. Monthly Notices of the Royal Astronomical Society, 2020, 495, 2416-2427.	4.4	33
49	PSR J2234+0611: A New Laboratory for Stellar Evolution. Astrophysical Journal, 2019, 870, 74.	4.5	32
50	A Sudden Period of High Activity from Repeating Fast Radio Burst 20201124A. Astrophysical Journal, 2022, 927, 59.	4.5	31
51	Multimessenger Gravitational-wave Searches with Pulsar Timing Arrays: Application to 3C 66B Using the NANOGrav 11-year Data Set. Astrophysical Journal, 2020, 900, 102.	4.5	30
52	The NANOGrav 12.5-year Data Set: Search for Non-Einsteinian Polarization Modes in the Gravitational-wave Background. Astrophysical Journal Letters, 2021, 923, L22.	8.3	30
53	Modeling Fast Radio Burst Dispersion and Scattering Properties in the First CHIME/FRB Catalog. Astrophysical Journal, 2022, 927, 35.	4.5	29
54	The NANOGrav 12.5 yr Data Set: The Frequency Dependence of Pulse Jitter in Precision Millisecond Pulsars. Astrophysical Journal, 2019, 872, 193.	4.5	28

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55	The NANOGrav 11 yr Data Set: Evolution of Gravitational-wave Background Statistics. Astrophysical Journal, 2020, 890, 108.	4.5	28
56	The High Time Resolution Universe survey â€“ XI. Discovery of five recycled pulsars and the optical detectability of survey white dwarf companions. Monthly Notices of the Royal Astronomical Society, 2015, 446, 4019-4028.	4.4	25
57	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
58	The High Time Resolution Universe Pulsar Survey â€“ VII. Discovery of five millisecond pulsars and the different luminosity properties of binary and isolated recycled pulsars. Monthly Notices of the Royal Astronomical Society, 2013, 433, 259-269.	4.4	24
59	Analysis of the Breakthrough Listen signal of interest blc1 with a technosignature verification framework. Nature Astronomy, 2021, 5, 1153-1162.	10.1	24
60	The NANOGrav 11 yr Data Set: Solar Wind Sounding through Pulsar Timing. Astrophysical Journal, 2019, 872, 150.	4.5	22
61	PSR J1755â^'2550: a young radio pulsar with a massive, compact companion. Monthly Notices of the Royal Astronomical Society, 2018, 476, 4315-4326.	4.4	21
62	The NANOGrav 11 yr Data Set: Limits on Supermassive Black Hole Binaries in Galaxies within 500 Mpc. Astrophysical Journal, 2021, 914, 121.	4.5	21
63	Pulsar science with the CHIME telescope. Proceedings of the International Astronomical Union, 2017, 13, 179-182.	0.0	20
64	High-precision X-Ray Timing of Three Millisecond Pulsars with NICER: Stability Estimates and Comparison with Radio. Astrophysical Journal, 2019, 874, 160.	4.5	20
65	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
66	No Evidence for Galactic Latitude Dependence of the Fast Radio Burst Sky Distribution. Astrophysical Journal, 2021, 923, 2.	4.5	20
67	The NANOGrav 11 yr Data Set: Arecibo Observatory Polarimetry and Pulse Microcomponents. Astrophysical Journal, 2018, 862, 47.	4.5	18
68	A fast radio burst with a low dispersion measure. Monthly Notices of the Royal Astronomical Society, 0, , .	4.4	18
69	Faraday rotation measures of Northern hemisphere pulsars using CHIME/Pulsar. Monthly Notices of the Royal Astronomical Society, 2020, 496, 2836-2848.	4.4	17
70	A radio technosignature search towards Proxima Centauri resulting in a signal of interest. Nature Astronomy, 2021, 5, 1148-1152.	10.1	17
71	The High Time Resolution Universe survey â€“ IX. Polarimetry of long-period pulsars. Monthly Notices of the Royal Astronomical Society, 2013, 436, 3557-3572.	4.4	16
72	The NANOGrav 11-year Data Set: Pulse Profile Variability. Astrophysical Journal, 2018, 868, 122.	4.5	15

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73	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
74	Polarization Pipeline for Fast Radio Bursts Detected by CHIME/FRB. Astrophysical Journal, 2021, 920, 138.	4.5	15
75	Algorithms for FFT Beamforming Radio Interferometers. Astrophysical Journal, 2019, 879, 16.	4.5	14
76	First Discovery of New Pulsars and RRATs with CHIME/FRB. Astrophysical Journal, 2021, 922, 43.	4.5	14
77	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
78	CHIME FRB: An application of FFT beamforming for a radio telescope. , 2017, , .		12
79	Localizing FRBs through VLBI with the Algonquin Radio Observatory 10 m Telescope. Astronomical Journal, 2022, 163, 65.	4.7	12
80	Multiband Detection of Repeating FRB 20180916B. Astrophysical Journal, 2022, 932, 98.	4.5	12
81	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
82	The Breakthrough Listen Search for Intelligent Life: MeerKAT Target Selection. Publications of the Astronomical Society of the Pacific, 2021, 133, 064502.	3.1	9
83	The NANOGrav 12.5 yr Data Set: Polarimetry and Faraday Rotation Measures from Observations of Millisecond Pulsars with the Green Bank Telescope. Astrophysical Journal, 2022, 926, 168.	4.5	9
84	4â€“8 GHz Fourier-domain Searches for Galactic Center Pulsars. Astrophysical Journal, 2022, 933, 121.	4.5	9
85	Measurement of the Rate Distribution of the Population of Repeating Fast Radio Bursts: Implications for Progenitor Models. Astrophysical Journal Letters, 2020, 895, L22.	8.3	8
86	The Discovery of Nulling and Mode-switching Pulsars with CHIME/Pulsar. Astrophysical Journal, 2020, 903, 81.	4.5	8
87	Bayesian Solar Wind Modeling with Pulsar Timing Arrays. Astrophysical Journal, 2022, 929, 39.	4.5	8
88	Searching for Broadband Pulsed Beacons from 1883 Stars Using Neural Networks. Astrophysical Journal, 2022, 932, 81.	4.5	8
89	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
90	The NANOGrav 12.5 Year Data Set: Monitoring Interstellar Scattering Delays. Astrophysical Journal, 2021, 917, 10.	4.5	7

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91	The NANOGrav 11 yr Data Set: Constraints on Planetary Masses Around 45 Millisecond Pulsars. Astrophysical Journal Letters, 2020, 893, L8.	8.3	6
92	Setigen: Simulating Radio Technosignatures for the Search for Extraterrestrial Intelligence. Astronomical Journal, 2022, 163, 222.	4.7	5
93	Re-analysis of Breakthrough Listen Observations of FRBâ€‰121102: Polarization Properties of Eight New Spectrally Narrow Bursts. Research Notes of the AAS, 2021, 5, 17.	0.7	4
94	Conducting the deepest all-sky pulsar survey ever: the all-sky High Time Resolution Universe survey. Proceedings of the International Astronomical Union, 2012, 8, 53-56.	0.0	1
95	The Discovery of the Most Accelerated Binary Pulsar. Proceedings of the International Astronomical Union, 2017, 13, 134-137.	0.0	0
96	Enabling PTAs for gravitational wave detection: The all-sky HTRU pulsar survey. , 2011, , .		0