

# James Cordes

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4334535/publications.pdf>

Version: 2024-02-01

265  
papers

28,932  
citations

4146

87  
h-index

5120

166  
g-index

267  
all docs

267  
docs citations

267  
times ranked

8536  
citing authors

#	ARTICLE	IF	CITATIONS
1	First M87 Event Horizon Telescope Results. I. The Shadow of the Supermassive Black Hole. <i>Astrophysical Journal Letters</i> , 2019, 875, L1.	8.3	2,264
2	Pulsar distances and the galactic distribution of free electrons. <i>Astrophysical Journal</i> , 1993, 411, 674.	4.5	1,070
3	First M87 Event Horizon Telescope Results. VI. The Shadow and Mass of the Central Black Hole. <i>Astrophysical Journal Letters</i> , 2019, 875, L6.	8.3	897
4	First M87 Event Horizon Telescope Results. V. Physical Origin of the Asymmetric Ring. <i>Astrophysical Journal Letters</i> , 2019, 875, L5.	8.3	814
5	First M87 Event Horizon Telescope Results. IV. Imaging the Central Supermassive Black Hole. <i>Astrophysical Journal Letters</i> , 2019, 875, L4.	8.3	806
6	A repeating fast radio burst. <i>Nature</i> , 2016, 531, 202-205.	27.8	690
7	First M87 Event Horizon Telescope Results. II. Array and Instrumentation. <i>Astrophysical Journal Letters</i> , 2019, 875, L2.	8.3	618
8	A direct localization of a fast radio burst and its host. <i>Nature</i> , 2017, 541, 58-61.	27.8	616
9	First Sagittarius A* Event Horizon Telescope Results. I. The Shadow of the Supermassive Black Hole in the Center of the Milky Way. <i>Astrophysical Journal Letters</i> , 2022, 930, L12.	8.3	568
10	The NANOGrav 12.5-yr Data Set: Search for an Isotropic Stochastic Gravitational-wave Background. <i>Astrophysical Journal Letters</i> , 2020, 905, L34.	8.3	528
11	First M87 Event Horizon Telescope Results. III. Data Processing and Calibration. <i>Astrophysical Journal Letters</i> , 2019, 875, L3.	8.3	519
12	Transient radio bursts from rotating neutron stars. <i>Nature</i> , 2006, 439, 817-820.	27.8	509
13	The Velocity Distribution of Isolated Radio Pulsars. <i>Astrophysical Journal</i> , 2002, 568, 289-301.	4.5	499
14	The Host Galaxy and Redshift of the Repeating Fast Radio Burst FRB 121102. <i>Astrophysical Journal Letters</i> , 2017, 834, L7.	8.3	495
15	The NANOGrav 11-year Data Set: High-precision Timing of 45 Millisecond Pulsars. <i>Astrophysical Journal, Supplement Series</i> , 2018, 235, 37.	7.7	448
16	FAST RADIO BURST DISCOVERED IN THE Arecibo Pulsar ALFA Survey. <i>Astrophysical Journal</i> , 2014, 790, 101.	4.5	409
17	An extreme magneto-ionic environment associated with the fast radio burst source FRB 121102. <i>Nature</i> , 2018, 553, 182-185.	27.8	368
18	The International Pulsar Timing Array: First data release. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 458, 1267-1288.	4.4	332

#	ARTICLE	IF	CITATIONS
19	The NANOGrav 11 Year Data Set: Pulsar-timing Constraints on the Stochastic Gravitational-wave Background. <i>Astrophysical Journal</i> , 2018, 859, 47.	4.5	331
20	Fast Radio Bursts: An Extragalactic Enigma. <i>Annual Review of Astronomy and Astrophysics</i> , 2019, 57, 417-465.	24.3	324
21	The Repeating Fast Radio Burst FRB 121102 as Seen on Milliarsecond Angular Scales. <i>Astrophysical Journal Letters</i> , 2017, 834, L8.	8.3	300
22	First M87 Event Horizon Telescope Results. VIII. Magnetic Field Structure near The Event Horizon. <i>Astrophysical Journal Letters</i> , 2021, 910, L13.	8.3	297
23	Multifrequency Observations of Radio Pulse Broadening and Constraints on Interstellar Electron Density Microstructure. <i>Astrophysical Journal</i> , 2004, 605, 759-783.	4.5	271
24	LIMITS ON THE STOCHASTIC GRAVITATIONAL WAVE BACKGROUND FROM THE NORTH AMERICAN NANOHERTZ OBSERVATORY FOR GRAVITATIONAL WAVES. <i>Astrophysical Journal</i> , 2013, 762, 94.	4.5	270
25	Neutron Star Population Dynamics. II. Three-dimensional Space Velocities of Young Pulsars. <i>Astrophysical Journal</i> , 1998, 505, 315-338.	4.5	248
26	Supergiant pulses from extragalactic neutron stars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 457, 232-257.	4.4	243
27	THE REPEATING FAST RADIO BURST FRB 121102: MULTI-WAVELENGTH OBSERVATIONS AND ADDITIONAL BURSTS. <i>Astrophysical Journal</i> , 2016, 833, 177.	4.5	238
28	On the nature and evolution of the unique binary pulsar J1903+0327. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 412, 2763-2780.	4.4	237
29	FRB 121102 Bursts Show Complex Time-Frequency Structure. <i>Astrophysical Journal Letters</i> , 2019, 876, L23.	8.3	230
30	THE NANOGrav NINE-YEAR DATA SET: LIMITS ON THE ISOTROPIC STOCHASTIC GRAVITATIONAL WAVE BACKGROUND. <i>Astrophysical Journal</i> , 2016, 821, 13.	4.5	227
31	Highest Frequency Detection of FRB 121102 at 4.8 GHz Using the Breakthrough Listen Digital Backend at the Green Bank Telescope. <i>Astrophysical Journal</i> , 2018, 863, 2.	4.5	226
32	First M87 Event Horizon Telescope Results. VII. Polarization of the Ring. <i>Astrophysical Journal Letters</i> , 2021, 910, L12.	8.3	215
33	Small-scale electron density turbulence in the interstellar medium. <i>Astrophysical Journal</i> , 1985, 288, 221.	4.5	215
34	First Sagittarius A* Event Horizon Telescope Results. VI. Testing the Black Hole Metric. <i>Astrophysical Journal Letters</i> , 2022, 930, L17.	8.3	215
35	Searches for Fast Radio Transients. <i>Astrophysical Journal</i> , 2003, 596, 1142-1154.	4.5	211
36	Observational limits on the location of pulsar emission regions. <i>Astrophysical Journal</i> , 1978, 222, 1006.	4.5	206

#	ARTICLE	IF	CITATIONS
37	Arecibo Pulsar Survey Using ALFA. I. Survey Strategy and First Discoveries. <i>Astrophysical Journal</i> , 2006, 637, 446-455.	4.5	205
38	JPL pulsar timing observations. III - Pulsar rotation fluctuations. <i>Astrophysical Journal, Supplement Series</i> , 1985, 59, 343.	7.7	196
39	The International Pulsar Timing Array: second data release. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 490, 4666-4687.	4.4	191
40	Gravitational Test beyond the First Post-Newtonian Order with the Shadow of the M87 Black Hole. <i>Physical Review Letters</i> , 2020, 125, 141104.	7.8	190
41	First Sagittarius A* Event Horizon Telescope Results. V. Testing Astrophysical Models of the Galactic Center Black Hole. <i>Astrophysical Journal Letters</i> , 2022, 930, L16.	8.3	187
42	The Guitar nebula: a bow shock from a slow-spin, high-velocity neutron star. <i>Nature</i> , 1993, 362, 133-135.	27.8	186
43	ASSESSING THE ROLE OF SPIN NOISE IN THE PRECISION TIMING OF MILLISECOND PULSARS. <i>Astrophysical Journal</i> , 2010, 725, 1607-1619.	4.5	186
44	THE NANOGRAV NINE-YEAR DATA SET: OBSERVATIONS, ARRIVAL TIME MEASUREMENTS, AND ANALYSIS OF 37 MILLISECOND PULSARS. <i>Astrophysical Journal</i> , 2015, 813, 65.	4.5	185
45	Giant Pulses from the Crab Pulsar: A Joint Radio and Gamma-Ray Study. <i>Astrophysical Journal</i> , 1995, 453, 433.	4.5	181
46	Diffraction Interstellar Scintillation Timescales and Velocities. <i>Astrophysical Journal</i> , 1998, 507, 846-860.	4.5	178
47	The Event Horizon General Relativistic Magnetohydrodynamic Code Comparison Project. <i>Astrophysical Journal, Supplement Series</i> , 2019, 243, 26.	7.7	175
48	The International Pulsar Timing Array second data release: Search for an isotropic gravitational wave background. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 510, 4873-4887.	4.4	174
49	Density power spectrum in the local interstellar medium. <i>Nature</i> , 1981, 291, 561-564.	27.8	172
50	PROSPECTS FOR PROBING THE SPACETIME OF Sgr A* WITH PULSARS. <i>Astrophysical Journal</i> , 2012, 747, 1.	4.5	165
51	First Sagittarius A* Event Horizon Telescope Results. III. Imaging of the Galactic Center Supermassive Black Hole. <i>Astrophysical Journal Letters</i> , 2022, 930, L14.	8.3	163
52	Space velocities of radio pulsars from interstellar scintillations. <i>Astrophysical Journal</i> , 1986, 311, 183.	4.5	155
53	An Eccentric Binary Millisecond Pulsar in the Galactic Plane. <i>Science</i> , 2008, 320, 1309-1312.	12.6	152
54	A Multi-telescope Campaign on FRB 121102: Implications for the FRB Population. <i>Astrophysical Journal</i> , 2017, 850, 76.	4.5	148

#	ARTICLE	IF	CITATIONS
55	Faint Scattering Around Pulsars: Probing the Interstellar Medium on Solar System Size Scales. <i>Astrophysical Journal</i> , 2001, 549, L97-L100.	4.5	148
56	First Sagittarius A* Event Horizon Telescope Results. II. EHT and Multiwavelength Observations, Data Processing, and Calibration. <i>Astrophysical Journal Letters</i> , 2022, 930, L13.	8.3	142
57	PRECISION ASTROMETRY WITH THE VERY LONG BASELINE ARRAY: PARALLAXES AND PROPER MOTIONS FOR 14 PULSARS. <i>Astrophysical Journal</i> , 2009, 698, 250-265.	4.5	137
58	First Sagittarius A* Event Horizon Telescope Results. IV. Variability, Morphology, and Black Hole Mass. <i>Astrophysical Journal Letters</i> , 2022, 930, L15.	8.3	137
59	Neutron Star Population Dynamics. I. Millisecond Pulsars. <i>Astrophysical Journal</i> , 1997, 482, 971-992.	4.5	136
60	The galactic distribution of free electrons. <i>Nature</i> , 1991, 354, 121-124.	27.8	135
61	Fast Radio Burst 121102 Pulse Detection and Periodicity: A Machine Learning Approach. <i>Astrophysical Journal</i> , 2018, 866, 149.	4.5	135
62	The Brightest Pulses in the Universe: Multifrequency Observations of the Crab Pulsar's Giant Pulses. <i>Astrophysical Journal</i> , 2004, 612, 375-388.	4.5	134
63	Lensing of Fast Radio Bursts by Plasma Structures in Host Galaxies. <i>Astrophysical Journal</i> , 2017, 842, 35.	4.5	133
64	Getting Its Kicks: A VLBA Parallax for the Hyperfast Pulsar B1508+55. <i>Astrophysical Journal</i> , 2005, 630, L61-L64.	4.5	132
65	Pulsar timing. III - Timing noise of 50 pulsars. <i>Astrophysical Journal</i> , 1980, 239, 640.	4.5	132
66	Rocking the Lighthouse: Circumpulsar Asteroids and Radio Intermittency. <i>Astrophysical Journal</i> , 2008, 682, 1152-1165.	4.5	130
67	FRB 121102 Is Coincident with a Star-forming Region in Its Host Galaxy. <i>Astrophysical Journal Letters</i> , 2017, 843, L8.	8.3	130
68	A bimodal burst energy distribution of a repeating fast radio burst source. <i>Nature</i> , 2021, 598, 267-271.	27.8	129
69	A Sample of Low-energy Bursts from FRB 121102. <i>Astrophysical Journal Letters</i> , 2019, 877, L19.	8.3	120
70	PALFA Discovery of a Highly Relativistic Double Neutron Star Binary. <i>Astrophysical Journal Letters</i> , 2018, 854, L22.	8.3	119
71	Pulsar Parallaxes at 5 GHz with the Very Long Baseline Array. <i>Astrophysical Journal</i> , 2004, 604, 339-345.	4.5	107
72	GRAVITATIONAL WAVES FROM INDIVIDUAL SUPERMASSIVE BLACK HOLE BINARIES IN CIRCULAR ORBITS: LIMITS FROM THE NORTH AMERICAN NANOHERTZ OBSERVATORY FOR GRAVITATIONAL WAVES. <i>Astrophysical Journal</i> , 2014, 794, 141.	4.5	104

#	ARTICLE	IF	CITATIONS
73	Arecibo Pulsar Survey Using ALFA. II. The Young, Highly Relativistic Binary Pulsar J1906+0746. <i>Astrophysical Journal</i> , 2006, 640, 428-434.	4.5	103
74	ARECIBO PULSAR SURVEY USING ALFA: PROBING RADIO PULSAR INTERMITTENCY AND TRANSIENTS. <i>Astrophysical Journal</i> , 2009, 703, 2259-2274.	4.5	103
75	The NANOGrav 11 yr Data Set: Limits on Gravitational Waves from Individual Supermassive Black Hole Binaries. <i>Astrophysical Journal</i> , 2019, 880, 116.	4.5	102
76	Theory of Parabolic Arcs in Interstellar Scintillation Spectra. <i>Astrophysical Journal</i> , 2006, 637, 346-365.	4.5	100
77	SEARCHING FOR PULSARS USING IMAGE PATTERN RECOGNITION. <i>Astrophysical Journal</i> , 2014, 781, 117.	4.5	99
78	Simultaneous X-Ray, Gamma-Ray, and Radio Observations of the Repeating Fast Radio Burst FRB 121102. <i>Astrophysical Journal</i> , 2017, 846, 80.	4.5	99
79	Refractive and diffractive scattering in the interstellar medium. <i>Astrophysical Journal</i> , 1986, 310, 737.	4.5	99
80	Hyperstrong Radio-Wave Scattering in the Galactic Center. II. A Likelihood Analysis of Free Electrons in the Galactic Center. <i>Astrophysical Journal</i> , 1998, 505, 715-731.	4.5	99
81	The NANOGrav 12.5 yr Data Set: Observations and Narrowband Timing of 47 Millisecond Pulsars. <i>Astrophysical Journal</i> , Supplement Series, 2021, 252, 4.	7.7	98
82	A repeating fast radio burst associated with a persistent radio source. <i>Nature</i> , 2022, 606, 873-877.	27.8	98
83	The Commensal Real-Time ASKAP Fast-Transients (CRAFT) Survey. <i>Publications of the Astronomical Society of Australia</i> , 2010, 27, 272-282.	3.4	93
84	Microarcsecond VLBI Pulsar Astrometry with PSR-II. Parallax Distances for 57 Pulsars. <i>Astrophysical Journal</i> , 2019, 875, 100.	4.5	93
85	Anomalous Radio-Wave Scattering from Interstellar Plasma Structures. <i>Astrophysical Journal</i> , 2001, 549, 997-1010.	4.5	92
86	MULTIWAVELENGTH CONSTRAINTS ON PULSAR POPULATIONS IN THE GALACTIC CENTER. <i>Astrophysical Journal</i> , 2012, 753, 108.	4.5	89
87	VAST: An ASKAP Survey for Variables and Slow Transients. <i>Publications of the Astronomical Society of Australia</i> , 2013, 30, .	3.4	88
88	Radio caustics from localized interstellar medium plasma structures. <i>Nature</i> , 1987, 328, 324-326.	27.8	87
89	Pulsar Spin Evolution, Kinematics, and the Birthrate of Neutron Star Binaries. <i>Astrophysical Journal</i> , 1999, 520, 696-705.	4.5	87
90	Anisotropic scattering of OH/IR stars toward the Galactic center. <i>Astrophysical Journal</i> , 1994, 427, L43.	4.5	86

#	ARTICLE	IF	CITATIONS
91	FREQUENCY-DEPENDENT DISPERSION MEASURES AND IMPLICATIONS FOR PULSAR TIMING. <i>Astrophysical Journal</i> , 2016, 817, 16.	4.5	84
92	Timing and scintillations of the millisecond pulsar 1937 + 214. <i>Astrophysical Journal</i> , 1990, 349, 245.	4.5	84
93	Searches for Giant Pulses from Extragalactic Pulsars. <i>Astrophysical Journal</i> , 2003, 596, 982-996.	4.5	83
94	DISCOVERY OF THREE PULSARS FROM A GALACTIC CENTER PULSAR POPULATION. <i>Astrophysical Journal</i> , 2009, 702, L177-L181.	4.5	83
95	From spin noise to systematics: stochastic processes in the first International Pulsar Timing Array data release. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 458, 2161-2187.	4.4	82
96	Bow Shocks from Neutron Stars: Scaling Laws and Hubble Space Telescope Observations of the Guitar Nebula. <i>Astrophysical Journal</i> , 2002, 575, 407-418.	4.5	81
97	Interstellar scattering effects on the detection of narrow-band signals. <i>Astrophysical Journal</i> , 1991, 376, 123.	4.5	80
98	ARECIBO PULSAR SURVEY USING ALFA. IV. MOCK SPECTROMETER DATA ANALYSIS, SURVEY SENSITIVITY, AND THE DISCOVERY OF 40 PULSARS. <i>Astrophysical Journal</i> , 2015, 812, 81.	4.5	77
99	Interstellar scattering toward the Galactic center as probed OH/IR stars. <i>Astrophysical Journal</i> , 1992, 396, 686.	4.5	76
100	The NANOGrav Nine-year Data Set: Measurement and Analysis of Variations in Dispersion Measures. <i>Astrophysical Journal</i> , 2017, 841, 125.	4.5	76
101	PULSE BROADENING MEASUREMENTS FROM THE GALACTIC CENTER PULSAR J1745-2900. <i>Astrophysical Journal Letters</i> , 2014, 780, L3.	8.3	75
102	Finding Radio Pulsars in and beyond the Galactic Center. <i>Astrophysical Journal</i> , 1997, 475, 557-564.	4.5	75
103	Polarimetric Properties of Event Horizon Telescope Targets from ALMA. <i>Astrophysical Journal Letters</i> , 2021, 910, L14.	8.3	67
104	AN ASTEROID BELT INTERPRETATION FOR THE TIMING VARIATIONS OF THE MILLISECOND PULSAR B1937+21. <i>Astrophysical Journal</i> , 2013, 766, 5.	4.5	66
105	Highly polarized microstructure from the repeating FRB 20180916B. <i>Nature Astronomy</i> , 2021, 5, 594-603.	10.1	66
106	Astrophysics Milestones for Pulsar Timing Array Gravitational-wave Detection. <i>Astrophysical Journal Letters</i> , 2021, 911, L34.	8.3	66
107	Event Horizon Telescope observations of the jet launching and collimation in Centaurus A. <i>Nature Astronomy</i> , 2021, 5, 1017-1028.	10.1	65
108	The NANOGrav 12.5 yr Data Set: Wideband Timing of 47 Millisecond Pulsars. <i>Astrophysical Journal, Supplement Series</i> , 2021, 252, 5.	7.7	64

#	ARTICLE	IF	CITATIONS
109	The dynamic radio sky. <i>New Astronomy Reviews</i> , 2004, 48, 1459-1472.	12.8	62
110	DETECTING GRAVITATIONAL WAVE MEMORY WITH PULSAR TIMING. <i>Astrophysical Journal</i> , 2012, 752, 54.	4.5	62
111	Pulsar timing. II - Analysis of random walk timing noise - Application to the Crab pulsar. <i>Astrophysical Journal</i> , 1980, 237, 216.	4.5	62
112	Searching for Gravitational Waves from Cosmological Phase Transitions with the NANOGrav 12.5-Year Dataset. <i>Physical Review Letters</i> , 2021, 127, 251302.	7.8	62
113	Smashing the Guitar: An Evolving Neutron Star Bow Shock. <i>Astrophysical Journal</i> , 2004, 600, L51-L54.	4.5	58
114	Prospects for high-precision pulsar timing. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 417, 2916-2926.	4.4	58
115	Pulsar Discovery by Global Volunteer Computing. <i>Science</i> , 2010, 329, 1305-1305.	12.6	57
116	THE NANOGrav NINE-YEAR DATA SET: MONITORING INTERSTELLAR SCATTERING DELAYS. <i>Astrophysical Journal</i> , 2016, 818, 166.	4.5	57
117	Broadband Multi-wavelength Properties of M87 during the 2017 Event Horizon Telescope Campaign. <i>Astrophysical Journal Letters</i> , 2021, 911, L11.	8.3	56
118	NANOGrav CONSTRAINTS ON GRAVITATIONAL WAVE BURSTS WITH MEMORY. <i>Astrophysical Journal</i> , 2015, 810, 150.	4.5	54
119	THE NANOGrav NINE-YEAR DATA SET: EXCESS NOISE IN MILLISECOND PULSAR ARRIVAL TIMES. <i>Astrophysical Journal</i> , 2017, 834, 35.	4.5	54
120	Event Horizon Telescope imaging of the archetypal blazar 3C 279 at an extreme 20 microarcsecond resolution. <i>Astronomy and Astrophysics</i> , 2020, 640, A69.	5.1	54
121	THE EINSTEIN@HOME SEARCH FOR RADIO PULSARS AND PSR J2007+2722 DISCOVERY. <i>Astrophysical Journal</i> , 2013, 773, 91.	4.5	53
122	EINSTEIN@HOME DISCOVERY OF A DOUBLE NEUTRON STAR BINARY IN THE PALFA SURVEY. <i>Astrophysical Journal</i> , 2016, 831, 150.	4.5	52
123	A Second Chromatic Timing Event of Interstellar Origin toward PSR J1713+0747. <i>Astrophysical Journal</i> , 2018, 861, 132.	4.5	51
124	Monitoring the Morphology of M87* in 2009–2017 with the Event Horizon Telescope. <i>Astrophysical Journal</i> , 2020, 901, 67.	4.5	51
125	Modeling the Uncertainties of Solar System Ephemerides for Robust Gravitational-wave Searches with Pulsar-timing Arrays. <i>Astrophysical Journal</i> , 2020, 893, 112.	4.5	49
126	Parallax and Kinematics of PSR B0919+06 from VLBA Astrometry and Interstellar Scintillometry. <i>Astrophysical Journal</i> , 2001, 550, 287-296.	4.5	47



#	ARTICLE	IF	CITATIONS
127	THEMIS: A Parameter Estimation Framework for the Event Horizon Telescope. <i>Astrophysical Journal</i> , 2020, 897, 139.	4.5	47
128	Interstellar propagation effects and the precision of pulsar timing. <i>Astrophysical Journal</i> , 1990, 364, 123.	4.5	47
129	Scintillation-induced Intermittency in SETI. <i>Astrophysical Journal</i> , 1997, 487, 782-808.	4.5	46
130	Burst timescales and luminosities as links between young pulsars and fast radio bursts. <i>Nature Astronomy</i> , 2022, 6, 393-401.	10.1	46
131	THE NANOGRAV NINE-YEAR DATA SET: NOISE BUDGET FOR PULSAR ARRIVAL TIMES ON INTRADAY TIMESCALES. <i>Astrophysical Journal</i> , 2016, 819, 155.	4.5	45
132	Verification of Radiative Transfer Schemes for the EHT. <i>Astrophysical Journal</i> , 2020, 897, 148.	4.5	44
133	TWO LONG-TERM INTERMITTENT PULSARS DISCOVERED IN THE PALFA SURVEY. <i>Astrophysical Journal</i> , 2017, 834, 72.	4.5	43
134	Binary Pulsar Distances and Velocities from Gaia Data Release 2. <i>Astrophysical Journal</i> , 2018, 864, 26.	4.5	43
135	The Polarized Image of a Synchrotron-emitting Ring of Gas Orbiting a Black Hole. <i>Astrophysical Journal</i> , 2021, 912, 35.	4.5	43
136	Millimeter Light Curves of Sagittarius A* Observed during the 2017 Event Horizon Telescope Campaign. <i>Astrophysical Journal Letters</i> , 2022, 930, L19.	8.3	43
137	Pulsar Polarization Fluctuations - Part One - 1404-MHZ Statistical Summaries. <i>Astrophysical Journal, Supplement Series</i> , 1984, 55, 279.	7.7	42
138	TIMING OF FIVE MILLISECOND PULSARS DISCOVERED IN THE PALFA SURVEY. <i>Astrophysical Journal</i> , 2015, 800, 123.	4.5	40
139	A Radio Source Coincident with the Superluminous Supernova PTF10hgi: Evidence for a Central Engine and an Analog of the Repeating FRB 121102?. <i>Astrophysical Journal Letters</i> , 2019, 876, L10.	8.3	40
140	SYSTEMATIC AND STOCHASTIC VARIATIONS IN PULSAR DISPERSION MEASURES. <i>Astrophysical Journal</i> , 2016, 821, 66.	4.5	39
141	Pulsar radiation as polarized shot noise. <i>Astrophysical Journal</i> , 1976, 210, 780.	4.5	39
142	Hyperstrong Radio-Wave Scattering in the Galactic Center. I. A Survey for Extragalactic Sources Seen through the Galactic Center. <i>Astrophysical Journal, Supplement Series</i> , 1998, 118, 201-216.	7.7	38
143	A CLEAN-based Method for Deconvolving Interstellar Pulse Broadening from Radio Pulses. <i>Astrophysical Journal</i> , 2003, 584, 782-790.	4.5	38
144	Limits to PTA sensitivity: spin stability and arrival time precision of millisecond pulsars. <i>Classical and Quantum Gravity</i> , 2013, 30, 224002.	4.0	38

#	ARTICLE	IF	CITATIONS
145	Asymmetric mass ratios for bright double neutron-star mergers. <i>Nature</i> , 2020, 583, 211-214.	27.8	38
146	The scale height of the galactic free electron cloud. <i>Astronomical Journal</i> , 1992, 104, 1465.	4.7	38
147	PULSE INTENSITY MODULATION AND THE TIMING STABILITY OF MILLISECOND PULSARS: A CASE STUDY OF PSR J1713+0747. <i>Astrophysical Journal</i> , 2012, 761, 64.	4.5	37
148	PSR J0609+2130: a disrupted binary pulsar?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2004, 347, L21-L25.	4.4	36
149	ASSESSING PULSAR TIMING ARRAY SENSITIVITY TO GRAVITATIONAL WAVE BURSTS WITH MEMORY. <i>Astrophysical Journal</i> , 2014, 788, 141.	4.5	36
150	Studying the Solar system with the International Pulsar Timing Array. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 481, 5501-5516.	4.4	36
151	The NANOGrav 11 yr Data Set: Limits on Gravitational Wave Memory. <i>Astrophysical Journal</i> , 2020, 889, 38.	4.5	36
152	PALFA Single-pulse Pipeline: New Pulsars, Rotating Radio Transients, and a Candidate Fast Radio Burst. <i>Astrophysical Journal</i> , 2018, 869, 181.	4.5	35
153	Detection of Bursts from FRB 121102 with the Effelsberg 100 m Radio Telescope at 5 GHz and the Role of Scintillation. <i>Astrophysical Journal</i> , 2018, 863, 150.	4.5	34
154	The Breakthrough Listen Search For Intelligent Life Near the Galactic Center. I. <i>Astronomical Journal</i> , 2021, 162, 33.	4.7	34
155	PULSAR STATE SWITCHING FROM MARKOV TRANSITIONS AND STOCHASTIC RESONANCE. <i>Astrophysical Journal</i> , 2013, 775, 47.	4.5	33
156	PSR J1740+1000: A Young Pulsar Well Out of the Galactic Plane. <i>Astrophysical Journal</i> , 2002, 564, 333-342.	4.5	31
157	Electron Density Structure of the Local Galactic Disk. <i>Astrophysical Journal</i> , 2020, 897, 124.	4.5	31
158	MICROARCSECOND VLBI PULSAR ASTROMETRY WITH PSR 1509-58. I. TWO BINARY MILLISECOND PULSARS WITH WHITE DWARF COMPANIONS. <i>Astrophysical Journal</i> , 2016, 828, 8.	4.5	30
159	G359.87+0.18, An FR II Radio Galaxy 15 kpc from Sagittarius A*: Implications for the Scattering Region in the Galactic Center. <i>Astrophysical Journal</i> , 1999, 515, 196-205.	4.5	30
160	Multimessenger Gravitational-wave Searches with Pulsar Timing Arrays: Application to 3C 66B Using the NANOGrav 11-year Data Set. <i>Astrophysical Journal</i> , 2020, 900, 102.	4.5	30
161	The NANOGrav 12.5-year Data Set: Search for Non-Einsteinian Polarization Modes in the Gravitational-wave Background. <i>Astrophysical Journal Letters</i> , 2021, 923, L22.	8.3	30
162	TWO MILLISECOND PULSARS DISCOVERED BY THE PALFA SURVEY AND A SHAPIRO DELAY MEASUREMENT. <i>Astrophysical Journal</i> , 2012, 757, 89.	4.5	29

#	ARTICLE	IF	CITATIONS
163	TIMING AND INTERSTELLAR SCATTERING OF 35 DISTANT PULSARS DISCOVERED IN THE PALFA SURVEY. <i>Astrophysical Journal</i> , 2013, 772, 50.	4.5	28
164	The NANOGrav 11 yr Data Set: Evolution of Gravitational-wave Background Statistics. <i>Astrophysical Journal</i> , 2020, 890, 108.	4.5	28
165	PSR J1856+0245: Arecibo Discovery of a Young, Energetic Pulsar Coincident with the TeV $\hat{\gamma}$ -Ray Source HESS J1857+026. <i>Astrophysical Journal</i> , 2008, 682, L41-L44.	4.5	27
166	DISCOVERY OF A MILLISECOND PULSAR IN THE 5.4 DAY BINARY 3FGL J1417.5â€“4402: OBSERVING THE LATE PHASE OF PULSAR RECYCLING. <i>Astrophysical Journal</i> , 2016, 820, 6.	4.5	27
167	The Implementation of a Fast-folding Pipeline for Long-period Pulsar Searching in the PALFA Survey. <i>Astrophysical Journal</i> , 2018, 861, 44.	4.5	27
168	Constraining Galaxy Halos from the Dispersion and Scattering of Fast Radio Bursts and Pulsars. <i>Astrophysical Journal</i> , 2021, 911, 102.	4.5	27
169	PULSAR TIMING ERRORS FROM ASYNCHRONOUS MULTI-FREQUENCY SAMPLING OF DISPERSION MEASURE VARIATIONS. <i>Astrophysical Journal</i> , 2015, 801, 130.	4.5	26
170	Modelling and mitigating refractive propagation effects in precision pulsar timing observations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 464, 2075-2089.	4.4	26
171	Estimates of Fast Radio Burst Dispersion Measures from Cosmological Simulations. <i>Astrophysical Journal</i> , 2019, 886, 135.	4.5	26
172	Spectroscopy of the companion and bow-shock nebula of PSR 1957 + 20. <i>Astrophysical Journal</i> , 1992, 400, 638.	4.5	26
173	ARECIBO PALFA SURVEY AND EINSTEIN@HOME: BINARY PULSAR DISCOVERY BY VOLUNTEER COMPUTING. <i>Astrophysical Journal Letters</i> , 2011, 732, L1.	8.3	25
174	<i>Einstein@Home</i> DISCOVERY OF A PALFA MILLISECOND PULSAR IN AN ECCENTRIC BINARY ORBIT. <i>Astrophysical Journal</i> , 2015, 806, 140.	4.5	25
175	TIMING OF 29 PULSARS DISCOVERED IN THE PALFA SURVEY. <i>Astrophysical Journal</i> , 2017, 834, 137.	4.5	25
176	Optimal Frequency Ranges for Submicrosecond Precision Pulsar Timing. <i>Astrophysical Journal</i> , 2018, 861, 12.	4.5	25
177	The NANOGrav 11 yr Data Set: Solar Wind Sounding through Pulsar Timing. <i>Astrophysical Journal</i> , 2019, 872, 150.	4.5	22
178	Separated at Birth: The Origin of the Pulsars B2020+28 and B2021+51 in the Cygnus Superbubble. <i>Astrophysical Journal</i> , 2004, 610, 402-410.	4.5	21
179	THE BENEFITS OF VLBI ASTROMETRY TO PULSAR TIMING ARRAY SEARCHES FOR GRAVITATIONAL RADIATION. <i>Astrophysical Journal</i> , 2013, 777, 104.	4.5	21
180	Mass Measurements for Two Binary Pulsars Discovered in the PALFA Survey. <i>Astrophysical Journal</i> , 2019, 881, 165.	4.5	21

#	ARTICLE	IF	CITATIONS
181	The NANOGrav 11 yr Data Set: Limits on Supermassive Black Hole Binaries in Galaxies within 500 Mpc. <i>Astrophysical Journal</i> , 2021, 914, 121.	4.5	21
182	Selective Dynamical Imaging of Interferometric Data. <i>Astrophysical Journal Letters</i> , 2022, 930, L18.	8.3	21
183	Persistent plasma waves in interstellar space detected by Voyager 1. <i>Nature Astronomy</i> , 2021, 5, 761-765.	10.1	20
184	Characterizing and Mitigating Intraday Variability: Reconstructing Source Structure in Accreting Black Holes with mm-VLBI. <i>Astrophysical Journal Letters</i> , 2022, 930, L21.	8.3	20
185	A Universal Power-law Prescription for Variability from Synthetic Images of Black Hole Accretion Flows. <i>Astrophysical Journal Letters</i> , 2022, 930, L20.	8.3	20
186	A chaotic attractor in timing noise from the VELA pulsar?. <i>Astrophysical Journal</i> , 1990, 353, 588.	4.5	19
187	Radio wave scattering in the galactic disk. <i>Nature</i> , 1984, 309, 689-691.	27.8	18
188	FOUR HIGHLY DISPERSED MILLISECOND PULSARS DISCOVERED IN THE ARECIBO PALFA GALACTIC PLANE SURVEY. <i>Astrophysical Journal</i> , 2012, 757, 90.	4.5	18
189	Eight Millisecond Pulsars Discovered in the Arecibo PALFA Survey. <i>Astrophysical Journal</i> , 2019, 886, 148.	4.5	18
190	Late-time Radio and Millimeter Observations of Superluminous Supernovae and Long Gamma-Ray Bursts: Implications for Central Engines, Fast Radio Bursts, and Obscured Star Formation. <i>Astrophysical Journal</i> , 2021, 912, 21.	4.5	18
191	TIMING OF FIVE PALFA-DISCOVERED MILLISECOND PULSARS. <i>Astrophysical Journal</i> , 2016, 833, 192.	4.5	17
192	ARECIBO PULSAR SURVEY USING ALFA. III. PRECURSOR SURVEY AND POPULATION SYNTHESIS. <i>Astrophysical Journal</i> , 2014, 787, 137.	4.5	16
193	The Large Dispersion and Scattering of FRB 20190520B Are Dominated by the Host Galaxy. <i>Astrophysical Journal</i> , 2022, 931, 87.	4.5	16
194	The Radial Extent and Warp of the Ionized Galactic Disk. II. A Likelihood Analysis of Radio-Wave Scattering toward the Anticenter. <i>Astrophysical Journal</i> , 1998, 497, 238-252.	4.5	15
195	MULTIMOMENT RADIO TRANSIENT DETECTION. <i>Astrophysical Journal</i> , 2012, 748, 73.	4.5	15
196	The NANOGrav 11-year Data Set: Pulse Profile Variability. <i>Astrophysical Journal</i> , 2018, 868, 122.	4.5	15
197	Study of 72 Pulsars Discovered in the PALFA Survey: Timing Analysis, Glitch Activity, Emission Variability, and a Pulsar in an Eccentric Binary. <i>Astrophysical Journal</i> , 2022, 924, 135.	4.5	15
198	Redshift Estimation and Constraints on Intergalactic and Interstellar Media from Dispersion and Scattering of Fast Radio Bursts. <i>Astrophysical Journal</i> , 2022, 931, 88.	4.5	15

#	ARTICLE	IF	CITATIONS
199	Pulsar timing perturbations from Galactic gravitational wave bursts with memory. Physical Review D, 2017, 96, .	4.7	13
200	An 86 GHz Search for Pulsars in the Galactic Center with the Atacama Large Millimeter / submillimeter Array. Astrophysical Journal, 2021, 914, 30.	4.5	13
201	Probing the Local Interstellar Medium with Scintillometry of the Bright Pulsar B1133 + 16. Astrophysical Journal, 2022, 927, 99.	4.5	13
202	TRANSIENT EVENTS IN ARCHIVAL VERY LARGE ARRAY OBSERVATIONS OF THE GALACTIC CENTER. Astrophysical Journal, 2016, 833, 11.	4.5	10
203	A Deep Targeted Search for Fast Radio Bursts from the Sites of Low-redshift Short Gamma-Ray Bursts. Astrophysical Journal, 2019, 887, 252.	4.5	10
204	Radio frequency interference identification and mitigation using simultaneous dual-station observations. Radio Science, 2005, 40, n/a-n/a.	1.6	9
205	Radio Bursts, Origin Unknown. Science, 2013, 341, 40-41.	12.6	9
206	Single-Source Gravitational Wave Limits From the J1713+0747 24-hr Global Campaign. Journal of Physics: Conference Series, 2016, 716, 012014.	0.4	9
207	Induced Polarization from Birefringent Pulse Splitting in Magneto-ionic Media. Astrophysical Journal, 2019, 870, 29.	4.5	9
208	Detection of Pulses from the Vela Pulsar at Millimeter Wavelengths with Phased ALMA. Astrophysical Journal Letters, 2019, 885, L10.	8.3	9
209	4–8 GHz Fourier-domain Searches for Galactic Center Pulsars. Astrophysical Journal, 2022, 933, 121.	4.5	9
210	Low-frequency polarimetry of the millisecond pulsar PSR1937 + 214. Nature, 1983, 306, 349-351.	27.8	8
211	AN ARECIBO SEARCH FOR PULSARS AND TRANSIENT SOURCES IN M33. Astrophysical Journal, 2011, 732, 14.	4.5	8
212	VLA Observations of Single Pulses from the Galactic Center Magnetar. Astrophysical Journal, 2019, 875, 143.	4.5	8
213	Recent H-alpha Results on Pulsar B2224+65's Bow-Shock Nebula, the "Guitar". Journal of Astronomy and Space Sciences, 2016, 33, 167-172.	1.0	8
214	The NANOGrav 12.5 Year Data Set: Monitoring Interstellar Scattering Delays. Astrophysical Journal, 2021, 917, 10.	4.5	7
215	Detection of 2–4 GHz Continuum Emission from $\mu$ Eridani. Astrophysical Journal, 2020, 904, 138.	4.5	7
216	4–8 GHz Spectrotemporal Emission from the Galactic Center Magnetar PSR J1745–2900. Astrophysical Journal, 2021, 921, 101.	4.5	7

#	ARTICLE	IF	CITATIONS
217	An In Situ Study of Turbulence near Stellar Bow Shocks. <i>Astrophysical Journal</i> , 2021, 922, 233.	4.5	7
218	Nonaxisymmetric Precession of Magnetars and Fast Radio Bursts. <i>Astrophysical Journal</i> , 2022, 928, 53.	4.5	7
219	Prospects for probing strong gravity with a pulsar-black hole system. <i>Proceedings of the International Astronomical Union</i> , 2012, 8, 171-176.	0.0	6
220	The Variability of the Black Hole Image in M87 at the Dynamical Timescale. <i>Astrophysical Journal</i> , 2022, 925, 13.	4.5	6
221	Low frequency interstellar scattering and pulsar observations. , 1990, , 165-174.		5
222	Analysis of Multi-hour Continuous Observations of Seven Millisecond Pulsars. <i>Astrophysical Journal</i> , 2020, 890, 123.	4.5	5
223	Chandra Observations of the Guitar Nebula. <i>Symposium - International Astronomical Union</i> , 2003, 214, 135-136.	0.1	4
224	Refractive scintillation, caustics, and interstellar interferometry of the pulsar PSR 1133+16. <i>AIP Conference Proceedings</i> , 1988, , .	0.4	3
225	Pulsar Wind Nebulae. <i>International Astronomical Union Colloquium</i> , 1996, 160, 393-399.	0.1	3
226	The Spectrum & Galactic Distribution of MicroTurbulence in Diffuse Ionized Gas. , 1999, , 33-40.		3
227	Title is missing!. <i>Astrophysics and Space Science</i> , 2001, 278, 11-16.	1.4	3
228	Detecting Gravitational Scattering of Interstellar Objects Using Pulsar Timing. <i>Astrophysical Journal</i> , 2020, 889, 145.	4.5	3
229	Time asymmetries in pulsar signals. <i>Astrophysical Journal</i> , 1981, 249, 704.	4.5	3
230	Pulsar Timing Signatures of Circumbinary Asteroid Belts. <i>Astrophysical Journal</i> , 2020, 904, 191.	4.5	3
231	Empirical Assessment of Aperiodic and Periodic Radio Bursts from Young Precessing Magnetars. <i>Astrophysical Journal</i> , 2022, 929, 97.	4.5	3
232	Arecibo and the ALFA Pulsar Survey. <i>Research in Astronomy and Astrophysics</i> , 2006, 6, 311-318.	1.1	2
233	Arecibo Pulsar and Transient Surveys Using ALFA. <i>AIP Conference Proceedings</i> , 2008, , .	0.4	2
234	Back to the future: science and technology directions for radio telescopes of the twenty-first century. <i>Experimental Astronomy</i> , 2009, 26, 79-94.	3.7	2

#	ARTICLE	IF	CITATIONS
235	Noise Budget and Interstellar Medium Mitigation Advances in the NANOGrav Pulsar Timing Array. Journal of Physics: Conference Series, 2018, 957, 012007.	0.4	2
236	Evaluating Low-frequency Pulsar Observations to Monitor Dispersion with the Giant Metrewave Radio Telescope. Astrophysical Journal, 2021, 915, 15.	4.5	2
237	Radio Observational Constraints on Pulsar Emission Mechanisms. Symposium - International Astronomical Union, 1981, 95, 115-131.	0.1	1
238	VLBI Neutron Star Astrometry: Techniques and Initial Results. International Astronomical Union Colloquium, 2000, 177, 139-140.	0.1	1
239	Galactic structure and turbulence, pulsar distances, and the intergalactic medium. Proceedings of the International Astronomical Union, 2012, 8, 211-216.	0.0	1
240	Statistical analyses for NANOGrav 5-year timing residuals. Research in Astronomy and Astrophysics, 2017, 17, 19.	1.7	1
241	An Arecibo Search for Fast Radio Transients from M87. Astrophysical Journal, 2021, 920, 16.	4.5	1
242	Polarization mode coupling in radio pulsars. AIP Conference Proceedings, 1983, , .	0.4	0
243	Computer modeling of interstellar scattering effects on pulsar timing. AIP Conference Proceedings, 1988, , .	0.4	0
244	Interstellar electron density and magnetic field irregularities on 0.001 to 100 parsec scales. AIP Conference Proceedings, 1988, , .	0.4	0
245	Pulsar Interferometry with Microarcsecond Resolution. Symposium - International Astronomical Union, 1988, 129, 285-286.	0.1	0
246	Neutron Star Population Dynamics. International Astronomical Union Colloquium, 1996, 160, 55-56.	0.1	0
247	A Millisecond Pulsar Progenitor to an Ultra-Compact Low-Mass X-ray Binary. International Astronomical Union Colloquium, 1996, 160, 521-522.	0.1	0
248	Variability of CGRO/EGRET Gamma Ray Sources. International Astronomical Union Colloquium, 1996, 160, 357-358.	0.1	0
249	Preliminary model results for pulsar velocities. AIP Conference Proceedings, 1996, , .	0.4	0
250	Interstellar Scattering in the Galactic Anticenter. International Astronomical Union Colloquium, 1998, 164, 329-330.	0.1	0
251	Bow Shocks from Radio Pulsars: Observations of the Guitar Nebula. International Astronomical Union Colloquium, 2000, 177, 517-518.	0.1	0
252	Neutron Star Populations at the Millenium. International Astronomical Union Colloquium, 2000, 177, 573-578.	0.1	0

#	ARTICLE	IF	CITATIONS
253	A (new) Phenomenon in Pulsar Dynamic Spectra. International Astronomical Union Colloquium, 2000, 177, 559-560.	0.1	0
254	A Search for Variable Interstellar Magnetic Fields and Neutron Star Precession in Four Years of Polarization Position Angle Measurements on 98 Pulsars. International Astronomical Union Colloquium, 2000, 177, 269-270.	0.1	0
255	Optimizing Pulsar Searches Against Propagation Effects. International Astronomical Union Colloquium, 2001, 182, 47-52.	0.1	0
256	The Galactic Distribution of Electron Density Microstructure Inferred from Radio Scattering Observations. International Astronomical Union Colloquium, 2001, 182, 11-16.	0.1	0
257	Optimizing Pulsar Searches Against Propagation Effects. Astrophysics and Space Science, 2001, 278, 47-52.	1.4	0
258	Searches for Pulsar Planetary Systems. Symposium - International Astronomical Union, 2004, 213, 101-106.	0.1	0
259	New Radio Science Facilities for Compact Objects. Symposium - International Astronomical Union, 2004, 218, 113-120.	0.1	0
260	Issues in the detection of nano-Hertz gravitational waves using pulsars: Spin, jitter, and scintillations. , 2011, , .		0
261	The Dynamic Radio Sky. Proceedings of the International Astronomical Union, 2011, 7, 49-54.	0.0	0
262	Pulsars with the Australian Square Kilometre Array Pathfinder. , 2011, , .		0
263	Pathfinders and precursors for the SKA. , 2011, , .		0
264	The Magnetoionic Universe: Timing, Bursts, and SETI. Proceedings of the International Astronomical Union, 2017, 13, 269-274.	0.0	0
265	No Redetections of b1c1 in 39â€‰hr of Reobservation Campaigns of Proxima Centauri. Research Notes of the AAS, 2021, 5, 248.	0.7	0