

Ingrid H Stairs

List of Publications by Year in descending order

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123
papers

15,045
citations

34105

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17592

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6807
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#	ARTICLE	IF	CITATIONS
1	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
2	Localizing FRBs through VLBI with the Algonquin Radio Observatory 10 m Telescope. <i>Astronomical Journal</i> , 2022, 163, 65.	4.7	12
3	The NANOGrav 12.5 yr Data Set: Polarimetry and Faraday Rotation Measures from Observations of Millisecond Pulsars with the Green Bank Telescope. <i>Astrophysical Journal</i> , 2022, 926, 168.	4.5	9
4	A Sudden Period of High Activity from Repeating Fast Radio Burst 20201124A. <i>Astrophysical Journal</i> , 2022, 927, 59.	4.5	31
5	Modeling Fast Radio Burst Dispersion and Scattering Properties in the First CHIME/FRB Catalog. <i>Astrophysical Journal</i> , 2022, 927, 35.	4.5	29
6	Two New Black Widow Millisecond Pulsars in M28. <i>Astrophysical Journal</i> , 2022, 927, 126.	4.5	8
7	Bayesian Solar Wind Modeling with Pulsar Timing Arrays. <i>Astrophysical Journal</i> , 2022, 929, 39.	4.5	8
8	Sub-second periodicity in a fast radio burst. <i>Nature</i> , 2022, 607, 256-259.	27.8	37
9	A Synoptic VLBI Technique for Localizing Nonrepeating Fast Radio Bursts with CHIME/FRB. <i>Astronomical Journal</i> , 2021, 161, 81.	4.7	20
10	The 60 pc Environment of FRB 20180916B. <i>Astrophysical Journal Letters</i> , 2021, 908, L12.	8.3	67
11	A Nearby Repeating Fast Radio Burst in the Direction of M81. <i>Astrophysical Journal Letters</i> , 2021, 910, L18.	8.3	124
12	Astrophysics Milestones for Pulsar Timing Array Gravitational-wave Detection. <i>Astrophysical Journal Letters</i> , 2021, 911, L34.	8.3	66
13	LOFAR Detection of 110–188 MHz Emission and Frequency-dependent Activity from FRB 20180916B. <i>Astrophysical Journal Letters</i> , 2021, 911, L3.	8.3	99
14	An Analysis Pipeline for CHIME/FRB Full-array Baseband Data. <i>Astrophysical Journal</i> , 2021, 910, 147.	4.5	31
15	A Deep Chandra X-Ray Observatory Study of the Millisecond Pulsar Population in the Globular Cluster Terzan 5. <i>Astrophysical Journal</i> , 2021, 912, 124.	4.5	14
16	The CHIME Pulsar Project: System Overview. <i>Astrophysical Journal</i> , Supplement Series, 2021, 255, 5.	7.7	40
17	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
18	Refined Mass and Geometric Measurements of the High-mass PSR J0740+6620. <i>Astrophysical Journal Letters</i> , 2021, 915, L12.	8.3	416

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19	The NANOGrav 12.5 Year Data Set: Monitoring Interstellar Scattering Delays. <i>Astrophysical Journal</i> , 2021, 917, 10.	4.5	7
20	The Radius of PSR J0740+6620 from NICER and XMM-Newton Data. <i>Astrophysical Journal Letters</i> , 2021, 918, L28.	8.3	556
21	A Local Universe Host for the Repeating Fast Radio Burst FRB 20181030A. <i>Astrophysical Journal Letters</i> , 2021, 919, L24.	8.3	46
22	A NICER View of the Massive Pulsar PSR J0740+6620 Informed by Radio Timing and XMM-Newton Spectroscopy. <i>Astrophysical Journal Letters</i> , 2021, 918, L27.	8.3	544
23	The NANOGrav 12.5 yr Data Set: Observations and Narrowband Timing of 47 Millisecond Pulsars. <i>Astrophysical Journal, Supplement Series</i> , 2021, 252, 4.	7.7	98
24	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
25	Polarization Pipeline for Fast Radio Bursts Detected by CHIME/FRB. <i>Astrophysical Journal</i> , 2021, 920, 138.	4.5	15
26	The Orbital-decay Test of General Relativity to the 2% Level with 6 yr VLBA Astrometry of the Double Neutron Star PSR J1537+1155. <i>Astrophysical Journal Letters</i> , 2021, 921, L19.	8.3	3
27	CHIME/FRB Catalog 1 Results: Statistical Cross-correlations with Large-scale Structure. <i>Astrophysical Journal</i> , 2021, 922, 42.	4.5	40
28	The Green Bank Northern Celestial Cap Pulsar Survey. VI. Discovery and Timing of PSR J1759+5036: A Double Neutron Star Binary Pulsar. <i>Astrophysical Journal</i> , 2021, 922, 35.	4.5	14
29	First Discovery of New Pulsars and RRATs with CHIME/FRB. <i>Astrophysical Journal</i> , 2021, 922, 43.	4.5	14
30	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
31	Fast Radio Burst Morphology in the First CHIME/FRB Catalog. <i>Astrophysical Journal</i> , 2021, 923, 1.	4.5	109
32	No Evidence for Galactic Latitude Dependence of the Fast Radio Burst Sky Distribution. <i>Astrophysical Journal</i> , 2021, 923, 2.	4.5	20
33	The First CHIME/FRB Fast Radio Burst Catalog. <i>Astrophysical Journal, Supplement Series</i> , 2021, 257, 59.	7.7	199
34	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
35	The GBT 350-MHz Drift Scan Pulsar Survey – III. Detection of a magnetic field in the eclipsing material of PSR J2256+1024. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 495, 3052-3064.	4.4	15
36	The Green Bank North Celestial Cap Pulsar Survey. V. Pulsar Census and Survey Sensitivity. <i>Astrophysical Journal</i> , 2020, 892, 76.	4.5	25

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37	Nine New Repeating Fast Radio Burst Sources from CHIME/FRB. <i>Astrophysical Journal Letters</i> , 2020, 891, L6.	8.3	178
38	The NANOGrav 11 yr Data Set: Evolution of Gravitational-wave Background Statistics. <i>Astrophysical Journal</i> , 2020, 890, 108.	4.5	28
39	The NANOGrav 11 yr Data Set: Limits on Gravitational Wave Memory. <i>Astrophysical Journal</i> , 2020, 889, 38.	4.5	36
40	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
41	The NANOGrav 11 yr Data Set: Constraints on Planetary Masses Around 45 Millisecond Pulsars. <i>Astrophysical Journal Letters</i> , 2020, 893, L8.	8.3	6
42	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
43	Simultaneous X-Ray and Radio Observations of the Repeating Fast Radio Burst FRB $\hat{=} 180916.J0158+65$. <i>Astrophysical Journal</i> , 2020, 901, 165.	4.5	38
44	The Discovery of Nulling and Mode-switching Pulsars with CHIME/Pulsar. <i>Astrophysical Journal</i> , 2020, 903, 81.	4.5	8
45	First Discovery of a Fast Radio Burst at 350 MHz by the GBNCC Survey. <i>Astrophysical Journal</i> , 2020, 904, 92.	4.5	21
46	Detection of Repeating FRB 180916.J0158+65 Down to Frequencies of 300 MHz. <i>Astrophysical Journal Letters</i> , 2020, 896, L41.	8.3	70
47	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
48	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
49	CHIME/FRB Discovery of Eight New Repeating Fast Radio Burst Sources. <i>Astrophysical Journal Letters</i> , 2019, 885, L24.	8.3	302
50	CHIME/FRB Detection of the Original Repeating Fast Radio Burst Source FRB 121102. <i>Astrophysical Journal Letters</i> , 2019, 882, L18.	8.3	98
51	Radio emission from a pulsar's magnetic pole revealed by general relativity. <i>Science</i> , 2019, 365, 1013-1017.	12.6	45
52	The Green Bank North Celestial Cap Pulsar Survey. IV. Four New Timing Solutions. <i>Astrophysical Journal</i> , 2019, 875, 19.	4.5	8
53	The NANOGrav 12.5 yr Data Set: The Frequency Dependence of Pulse Jitter in Precision Millisecond Pulsars. <i>Astrophysical Journal</i> , 2019, 872, 193.	4.5	28
54	The NANOGrav 11 yr Data Set: Solar Wind Sounding through Pulsar Timing. <i>Astrophysical Journal</i> , 2019, 872, 150.	4.5	22

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55	PSR J2234+0611: A New Laboratory for Stellar Evolution. <i>Astrophysical Journal</i> , 2019, 870, 74.	4.5	32
56	Eight Millisecond Pulsars Discovered in the Arecibo PALFA Survey. <i>Astrophysical Journal</i> , 2019, 886, 148.	4.5	18
57	PALFA Discovery of a Highly Relativistic Double Neutron Star Binary. <i>Astrophysical Journal Letters</i> , 2018, 854, L22.	8.3	119
58	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
59	A Direct Measurement of Sense of Rotation of PSR J0737+3039A. <i>Astrophysical Journal</i> , 2018, 853, 73.	4.5	5
60	The Green Bank Northern Celestial Cap Pulsar Survey. II. The Discovery and Timing of 10 Pulsars. <i>Astrophysical Journal</i> , 2018, 857, 131.	4.5	14
61	A Second Chromatic Timing Event of Interstellar Origin toward PSR J1713+0747. <i>Astrophysical Journal</i> , 2018, 861, 132.	4.5	51
62	The NANOGrav 11 yr Data Set: Arecibo Observatory Polarimetry and Pulse Microcomponents. <i>Astrophysical Journal</i> , 2018, 862, 47.	4.5	18
63	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
64	The NANOGrav 11-year Data Set: Pulse Profile Variability. <i>Astrophysical Journal</i> , 2018, 868, 122.	4.5	15
65	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
66	Universality of free fall from the orbital motion of a pulsar in a stellar triple system. <i>Nature</i> , 2018, 559, 73-76.	27.8	121
67	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
68	The Green Bank North Celestial Cap Pulsar Survey. III. 45 New Pulsar Timing Solutions. <i>Astrophysical Journal</i> , 2018, 859, 93.	4.5	72
69	Discovery of Three New Millisecond Pulsars in Terzan 5. <i>Astrophysical Journal</i> , 2018, 855, 125.	4.5	36
70	TIMING OF 29 PULSARS DISCOVERED IN THE PALFA SURVEY. <i>Astrophysical Journal</i> , 2017, 834, 137.	4.5	25
71	TWO LONG-TERM INTERMITTENT PULSARS DISCOVERED IN THE PALFA SURVEY. <i>Astrophysical Journal</i> , 2017, 834, 72.	4.5	43
72	White paper on nuclear astrophysics and low energy nuclear physics Part 1: Nuclear astrophysics. <i>Progress in Particle and Nuclear Physics</i> , 2017, 94, 1-67.	14.4	32

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73	Using Long-term Millisecond Pulsar Timing to Obtain Physical Characteristics of the Bulge Globular Cluster Terzan 5. <i>Astrophysical Journal</i> , 2017, 845, 148.	4.5	66
74	A Search for Fast Radio Bursts with the GBNCC Pulsar Survey. <i>Astrophysical Journal</i> , 2017, 844, 140.	4.5	54
75	Toward an Empirical Theory of Pulsar Emission. XII. Exploring the Physical Conditions in Millisecond Pulsar Emission Regions. <i>Astrophysical Journal</i> , 2017, 845, 23.	4.5	12
76	CHIME FRB: An application of FFT beamforming for a radio telescope. , 2017, , .		12
77	The NANOGrav Nine-year Data Set: Measurement and Analysis of Variations in Dispersion Measures. <i>Astrophysical Journal</i> , 2017, 841, 125.	4.5	76
78	ORDINARY X-RAYS FROM THREE EXTRAORDINARY MILLISECOND PULSARS: XMM-NEWTON OBSERVATIONS OF PSRs J0337+1715, J0636+5129, AND J0645+5158. <i>Astrophysical Journal</i> , 2016, 822, 37.	4.5	38
79	THE NANOGRAV NINE-YEAR DATA SET: MASS AND GEOMETRIC MEASUREMENTS OF BINARY MILLISECOND PULSARS. <i>Astrophysical Journal</i> , 2016, 832, 167.	4.5	466
80	THE REPEATING FAST RADIO BURST FRB 121102: MULTI-WAVELENGTH OBSERVATIONS AND ADDITIONAL BURSTS. <i>Astrophysical Journal</i> , 2016, 833, 177.	4.5	238
81	EINSTEIN@HOME DISCOVERY OF A DOUBLE NEUTRON STAR BINARY IN THE PALFA SURVEY. <i>Astrophysical Journal</i> , 2016, 831, 150.	4.5	52
82	TIMING OF FIVE PALFA-DISCOVERED MILLISECOND PULSARS. <i>Astrophysical Journal</i> , 2016, 833, 192.	4.5	17
83	THE NANOGRAV NINE-YEAR DATA SET: MONITORING INTERSTELLAR SCATTERING DELAYS. <i>Astrophysical Journal</i> , 2016, 818, 166.	4.5	57
84	THE NANOGRAV NINE-YEAR DATA SET: ASTROMETRIC MEASUREMENTS OF 37 MILLISECOND PULSARS. <i>Astrophysical Journal</i> , 2016, 818, 92.	4.5	54
85	PSR J1024â€“0719: A MILLISECOND PULSAR IN AN UNUSUAL LONG-PERIOD ORBIT. <i>Astrophysical Journal</i> , 2016, 826, 86.	4.5	45
86	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
87	A COMPREHENSIVE STUDY OF RELATIVISTIC GRAVITY USING PSR B1534+12. <i>Astrophysical Journal</i> , 2014, 787, 82.	4.5	114
88	SPECTROSCOPY OF THE INNER COMPANION OF THE PULSAR PSR J0337+1715. <i>Astrophysical Journal Letters</i> , 2014, 783, L23.	8.3	19
89	A $1.05 M_{\odot}$ COMPANION TO PSR J2222â€“0137: THE COOLEST KNOWN WHITE DWARF?. <i>Astrophysical Journal</i> , 2014, 789, 119.	4.5	23
90	A Massive Pulsar in a Compact Relativistic Binary. <i>Science</i> , 2013, 340, 448, 1233232.	12.6	2,890

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91	PSR J1723+2837: AN ECLIPSING BINARY RADIO MILLISECOND PULSAR. <i>Astrophysical Journal</i> , 2013, 776, 20.	4.5	56
92	THE GREEN BANK TELESCOPE 350 MHz DRIFT-SCAN SURVEY II: DATA ANALYSIS AND THE TIMING OF 10 NEW PULSARS, INCLUDING A RELATIVISTIC BINARY. <i>Astrophysical Journal</i> , 2013, 763, 81.	4.5	107
93	PSR J1906+0746: From relativistic spin-precession to beam modeling. <i>Proceedings of the International Astronomical Union</i> , 2012, 8, 199-202.	0.0	4
94	The relativistic pulsar-white dwarf binary PSR J1738+0333 - II. The most stringent test of scalar-tensor gravity. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 423, 3328-3343.	4.4	435
95	<i>CHANDRA</i> X-RAY OBSERVATIONS OF 12 MILLISECOND PULSARS IN THE GLOBULAR CLUSTER M28. <i>Astrophysical Journal</i> , 2011, 730, 81.	4.5	51
96	SIX NEW RECYCLED GLOBULAR CLUSTER PULSARS DISCOVERED WITH THE GREEN BANK TELESCOPE. <i>Astrophysical Journal</i> , 2011, 734, 89.	4.5	29
97	A <i>CHANDRA</i> X-RAY OBSERVATION OF THE BINARY MILLISECOND PULSAR PSR J1023+0038. <i>Astrophysical Journal</i> , 2011, 742, 97.	4.5	111
98	X-RAY VARIABILITY AND EVIDENCE FOR PULSATIONS FROM THE UNIQUE RADIO PULSAR/X-RAY BINARY TRANSITION OBJECT FIRST J102347.6+003841. <i>Astrophysical Journal</i> , 2010, 722, 88-95.	4.5	81
99	Switched Magnetospheric Regulation of Pulsar Spin-Down. <i>Science</i> , 2010, 329, 408-412.	12.6	405
100	SDSS J102347.6+003841: A MILLISECOND RADIO PULSAR BINARY THAT HAD A HOT DISK DURING 2000-2001. <i>Astrophysical Journal</i> , 2009, 703, 2017-2023.	4.5	64
101	X-RAY AND RADIO TIMING OF THE PULSAR IN 3C 58. <i>Astrophysical Journal</i> , 2009, 706, 1163-1173.	4.5	46
102	A Radio Pulsar/X-ray Binary Link. <i>Science</i> , 2009, 324, 1411-1414.	12.6	463
103	Relativistic Spin Precession in the Double Pulsar. <i>Science</i> , 2008, 321, 104-107.	12.6	152
104	An Eccentric Binary Millisecond Pulsar in the Galactic Plane. <i>Science</i> , 2008, 320, 1309-1312.	12.6	152
105	<i>Chandra</i> X-Ray Observatory Observations of the Globular Cluster M71. <i>Astrophysical Journal</i> , 2008, 687, 1019-1034.	4.5	26
106	Eight New Millisecond Pulsars in NGC 6440 and NGC 6441. <i>Astrophysical Journal</i> , 2008, 675, 670-682.	4.5	149
107	Eight new MSPs in NGC 6440 and NGC 6441. <i>AIP Conference Proceedings</i> , 2008, , .	0.4	3
108	The Parallax and Proper Motion of PSR J0030+0451. <i>Astrophysical Journal</i> , 2006, 642, 1012-1017.	4.5	39

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109	Discovery of the X-Ray Counterpart to the Rotating Radio Transient J1819-1458. <i>Astrophysical Journal</i> , 2006, 639, L71-L74.	4.5	53
110	A Radio Pulsar Spinning at 716 Hz. <i>Science</i> , 2006, 311, 1901-1904.	12.6	635
111	Masses, Parallax, and Relativistic Timing of the PSR J1713+0747 Binary System. <i>Astrophysical Journal</i> , 2005, 620, 405-415.	4.5	113
112	A 2.1M \dot{S} Pulsar Measured by Relativistic Orbital Decay. <i>Astrophysical Journal</i> , 2005, 634, 1242-1249.	4.5	245
113	The Millisecond Pulsars in NGC 6760. <i>Astrophysical Journal</i> , 2005, 621, 959-965.	4.5	33
114	Twenty-One Millisecond Pulsars in Terzan 5 Using the Green Bank Telescope. <i>Science</i> , 2005, 307, 892-896.	12.6	256
115	Heavy Neutron Stars? A Status Report on Arecibo Timing of Four Pulsar "White Dwarf Systems. Symposium - International Astronomical Union, 2004, 218, 49-52.	0.1	9
116	Pulsars in Binary Systems: Probing Binary Stellar Evolution and General Relativity. <i>Science</i> , 2004, 304, 547-552.	12.6	206
117	Green Bank Telescope Discovery of Two Binary Millisecond Pulsars in the Globular Cluster M30. <i>Astrophysical Journal</i> , 2004, 604, 328-338.	4.5	40
118	Geodetic Precession and Timing of the Relativistic Binary Pulsars PSR B1534+12 and PSR B1913+16. <i>Astrophysical Journal</i> , 2003, 589, 495-502.	4.5	21
119	A Young White Dwarf Companion to Pulsar B1620-26: Evidence for Early Planet Formation. <i>Science</i> , 2003, 301, 193-196.	12.6	226
120	Testing General Relativity with Pulsar Timing. <i>Living Reviews in Relativity</i> , 2003, 6, 5.	26.7	312
121	Probing the Masses of the PSR J0621+1002 Binary System through Relativistic Apsidal Motion. <i>Astrophysical Journal</i> , 2002, 581, 509-518.	4.5	73
122	On the Mass and Inclination of the PSR J2019+2425 Binary System. <i>Astrophysical Journal</i> , 2001, 549, 516-521.	4.5	50
123	Pulsed X-Ray Emission from the Fastest Millisecond Pulsar: PSR B1937+21 with ASCA. <i>Astrophysical Journal</i> , 2001, 554, 316-321.	4.5	35