

Rene Spiewak

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

71
papers

2,724
citations

23
h-index

51
g-index

75
ext. papers

4,101
ext. citations

5.6
avg, IF

4.39
L-index

#	Paper	IF	Citations
71	High-precision search for dark photon dark matter with the Parkes Pulsar Timing Array. <i>Physical Review Research</i> , 2022 , 4,	3.9	2
70	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	4.7	0
69	A gamma-ray pulsar timing array constrains the nanohertz gravitational wave background.. <i>Science</i> , 2022 , 376, eabm3231	33.3	1
68	Mode changing in J1909 \square 744: the most precisely timed pulsar. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022 , 510, 5908-5915	4.3	0
67	Bayesian Solar Wind Modeling with Pulsar Timing Arrays. <i>Astrophysical Journal</i> , 2022 , 929, 39	4.7	0
66	Constraining Cosmological Phase Transitions with the Parkes Pulsar Timing Array.. <i>Physical Review Letters</i> , 2021 , 127, 251303	7.4	3
65	Searching for Gravitational Waves from Cosmological Phase Transitions with the NANOGrav 12.5-Year Dataset.. <i>Physical Review Letters</i> , 2021 , 127, 251302	7.4	9
64	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	7.9	3
63	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	4.7	0
62	The NANOGrav 12.5 yr Data Set: Observations and Narrowband Timing of 47 Millisecond Pulsars. <i>Astrophysical Journal, Supplement Series</i> , 2021 , 252, 4	8	38
61	The NANOGrav 12.5 yr Data Set: Wideband Timing of 47 Millisecond Pulsars. <i>Astrophysical Journal, Supplement Series</i> , 2021 , 252, 5	8	31
60	Eight new millisecond pulsars from the first MeerKAT globular cluster census. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021 , 504, 1407-1426	4.3	10
59	The Thousand-Pulsar-Array programme on MeerKAT IV. Scattering analysis of single-component pulsars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021 , 504, 1115-1128	4.3	5
58	The Thousand-Pulsar-Array programme on MeerKAT III. Observing strategy for pulsar monitoring with subarrays. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021 , 505, 4456-4467	4.3	2
57	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	4.3	4
56	The NANOGrav 11 yr Data Set: Limits on Supermassive Black Hole Binaries in Galaxies within 500 Mpc. <i>Astrophysical Journal</i> , 2021 , 914, 121	4.7	7
55	Identifying and mitigating noise sources in precision pulsar timing data sets. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021 , 502, 478-493	4.3	19

54	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	4-3	7
53	The relativistic binary programme on MeerKAT: science objectives and first results. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021 , 504, 2094-2114	4-3	8
52	On the Evidence for a Common-spectrum Process in the Search for the Nanohertz Gravitational-wave Background with the Parkes Pulsar Timing Array. <i>Astrophysical Journal Letters</i> , 2021 , 917, L19	7-9	30
51	The Parkes pulsar timing array second data release: timing analysis. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021 , 507, 2137-2153	4-3	6
50	The NANOGrav 12.5 Year Data Set: Monitoring Interstellar Scattering Delays. <i>Astrophysical Journal</i> , 2021 , 917, 10	4-7	1
49	Timing observations of three Galactic millisecond pulsars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021 , 507, 5303-5309	4-3	1
48	The thousand-pulsar-array programme on MeerKAT VII: polarisation properties of pulsars in the Magellanic Clouds. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021 , 509, 5209-5217	4-3	2
47	Measurement of the Rate Distribution of the Population of Repeating Fast Radio Bursts: Implications for Progenitor Models. <i>Astrophysical Journal Letters</i> , 2020 , 895, L22	7-9	3
46	Which bright fast radio bursts repeat?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020 , 495, 2416-2422	4-3	20
45	The Green Bank North Celestial Cap Pulsar Survey. V. Pulsar Census and Survey Sensitivity. <i>Astrophysical Journal</i> , 2020 , 892, 76	4-7	8
44	The Parkes Pulsar Timing Array project: second data release. <i>Publications of the Astronomical Society of Australia</i> , 2020 , 37,	5-5	57
43	The NANOGrav 11 yr Data Set: Evolution of Gravitational-wave Background Statistics. <i>Astrophysical Journal</i> , 2020 , 890, 108	4-7	13
42	The NANOGrav 11 yr Data Set: Limits on Gravitational Wave Memory. <i>Astrophysical Journal</i> , 2020 , 889, 38	4-7	22
41	A pulsar-based time-scale from the International Pulsar Timing Array. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020 , 491, 5951-5965	4-3	21
40	Modeling the Uncertainties of Solar System Ephemerides for Robust Gravitational-wave Searches with Pulsar-timing Arrays. <i>Astrophysical Journal</i> , 2020 , 893, 112	4-7	23
39	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	4-7	12
38	Precision Orbital Dynamics from Interstellar Scintillation Arcs for PSR J0437-715. <i>Astrophysical Journal</i> , 2020 , 904, 104	4-7	14
37	First Discovery of a Fast Radio Burst at 350 MHz by the GBNCC Survey. <i>Astrophysical Journal</i> , 2020 , 904, 92	4-7	9

36	The NANOGrav 12.5yr Data Set: Search for an Isotropic Stochastic Gravitational-wave Background. <i>Astrophysical Journal Letters</i> , 2020 , 905, L34	7.9	162
35	Searching for gravitational-wave bursts from cosmic string cusps with the Parkes Pulsar Timing Array. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020 , 501, 701-712	4.3	7
34	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,	5.5	47
33	Giant pulses from J1823B021A observed with the MeerKAT telescope. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020 , 498, 875-882	4.3	5
32	The SURvey for pulsars and extragalactic radio bursts V: recent discoveries and full timing solutions. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020 , 496, 4836-4848	4.3	4
31	The Thousand-Pulsar-Array programme on MeerKAT II. Science objectives and first results. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020 , 493, 3608-3615	4.3	19
30	Relativistic Shapiro delay measurements of an extremely massive millisecond pulsar. <i>Nature Astronomy</i> , 2020 , 4, 72-76	12.1	588
29	The NANOGrav 11 yr Data Set: Constraints on Planetary Masses Around 45 Millisecond Pulsars. <i>Astrophysical Journal Letters</i> , 2020 , 893, L8	7.9	4
28	The Green Bank North Celestial Cap Pulsar Survey. IV. Four New Timing Solutions. <i>Astrophysical Journal</i> , 2019 , 875, 19	4.7	4
27	The dynamics of Galactic centre pulsars: constraining pulsar distances and intrinsic spin-down. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019 , 487, 1025-1039	4.3	5
26	The NANOGrav 12.5 yr Data Set: The Frequency Dependence of Pulse Jitter in Precision Millisecond Pulsars. <i>Astrophysical Journal</i> , 2019 , 872, 193	4.7	19
25	The NANOGrav 11 yr Data Set: Solar Wind Sounding through Pulsar Timing. <i>Astrophysical Journal</i> , 2019 , 872, 150	4.7	15
24	PSR J2234+0611: A New Laboratory for Stellar Evolution. <i>Astrophysical Journal</i> , 2019 , 870, 74	4.7	17
23	High-precision X-Ray Timing of Three Millisecond Pulsars with NICER: Stability Estimates and Comparison with Radio. <i>Astrophysical Journal</i> , 2019 , 874, 160	4.7	13
22	The NANOGrav 11 yr Data Set: Limits on Gravitational Waves from Individual Supermassive Black Hole Binaries. <i>Astrophysical Journal</i> , 2019 , 880, 116	4.7	58
21	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	4.3	30
20	The International Pulsar Timing Array: second data release. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019 , 490, 4666-4687	4.3	107
19	Faint Repetitions from a Bright Fast Radio Burst Source. <i>Astrophysical Journal Letters</i> , 2019 , 887, L30	7.9	74

18	The NANOGrav 11-year Data Set: High-precision Timing of 45 Millisecond Pulsars. <i>Astrophysical Journal, Supplement Series</i> , 2018 , 235, 37	8	295
17	The Green Bank Northern Celestial Cap Pulsar Survey. II. The Discovery and Timing of 10 Pulsars. <i>Astrophysical Journal</i> , 2018 , 857, 131	4.7	8
16	PSR J2322+6501: A low-luminosity millisecond pulsar with a planetary-mass companion. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018 , 475, 469-477	4.3	14
15	The Green Bank North Celestial Cap Pulsar Survey. III. 45 New Pulsar Timing Solutions. <i>Astrophysical Journal</i> , 2018 , 859, 93	4.7	46
14	A Second Chromatic Timing Event of Interstellar Origin toward PSR J1713+0747. <i>Astrophysical Journal</i> , 2018 , 861, 132	4.7	33
13	The NANOGrav 11 yr Data Set: Arecibo Observatory Polarimetry and Pulse Microcomponents. <i>Astrophysical Journal</i> , 2018 , 862, 47	4.7	13
12	Parkes Pulsar Timing Array constraints on ultralight scalar-field dark matter. <i>Physical Review D</i> , 2018 , 98,	4.9	40
11	The NANOGrav 11-year Data Set: Pulse Profile Variability. <i>Astrophysical Journal</i> , 2018 , 868, 122	4.7	9
10	Studying the Solar system with the International Pulsar Timing Array. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018 , 481, 5501-5516	4.3	24
9	The NANOGrav 11 Year Data Set: Pulsar-timing Constraints on the Stochastic Gravitational-wave Background. <i>Astrophysical Journal</i> , 2018 , 859, 47	4.7	209
8	Comparison of pulsar positions from timing and very long baseline astrometry. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017 , 469, 425-434	4.3	16
7	Wide-band profile domain pulsar timing analysis. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017 , 466, 3706-3727	4.3	14
6	THE DISTURBANCE OF A MILLISECOND PULSAR MAGNETOSPHERE. <i>Astrophysical Journal Letters</i> , 2016 , 828, L1	7.9	23
5	Gravitational-Wave Cosmology across 29 Decades in Frequency. <i>Physical Review X</i> , 2016 , 6,	9.1	82
4	Versatile directional searches for gravitational waves with Pulsar Timing Arrays. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016 , 455, 3662-3673	4.3	15
3	PSR J1024-719: A MILLISECOND PULSAR IN AN UNUSUAL LONG-PERIOD ORBIT. <i>Astrophysical Journal</i> , 2016 , 826, 86	4.7	29
2	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	4.7	29
1	The International Pulsar Timing Array: First data release. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016 , 458, 1267-1288	4.3	239

